

# Kullanım kılavuzu

50BFL2114/12  
58BFL2114/12  
65BFL2114/12  
70BFL2114/12  
75BFL2114/12

**PHILIPS**

# İçindekiler

## 1 TV Turu 3

### 1.1 Profesyonel Mod 3

## 2 Kurulum 4

### 2.1 Güvenlik Talimatlarını Okuma 4

### 2.2 Duvara Montaj 4

### 2.3 Yerleştirme hakkında İpuçları 4

### 2.4 Güç Kablosu 4

### 2.5 Anten Kablosu 5

## 3 Uzaktan Kumanda 6

### 3.1 Tuş genel bilgileri 6

### 3.2 IR Sensörü 7

### 3.3 Temizleme 7

## 4 Açma ve Kapatma 8

### 4.1 Açık veya Bekleme modunda 8

### 4.2 TV üzerindeki tuşlar 8

## 5 Teknik özellikler 9

### 5.1 Çevresel 9

### 5.2 Güç 9

### 5.3 İşletim Sistemi 10

### 5.4 Alım 10

### 5.5 Ekran Türü 10

### 5.6 Görüntü Giriş Çözünürlüğü 10

### 5.7 Bağlantı (2114) 10

### 5.8 Boyutlar ve Ağırlıklar 10

### 5.9 Ses 11

## 6 Cihazları Bağlama 12

### 6.1 Cihazları Bağlama 12

### 6.2 Akıllı Kartlı CAM – CI+ 13

### 6.3 Alıcı – Set Üstü Kutu 14

### 6.4 Ev Sinema Sistemi – HTS 14

### 6.5 Blu-ray Disk Oynatıcı 14

### 6.6 Kulaklıklar 15

### 6.7 Oyun Konsolu 15

### 6.8 USB Flash Sürücü 15

### 6.9 Bilgisayar 15

## 7 Videolar, Fotoğraflar ve Müzik 17

### 7.1 USB Bağlantısından 17

### 7.2 Videolarınızı Oynatma 17

### 7.3 Fotoğraflarınızı Görüntüleme 17

### 7.4 Müzik Çalma 18

## 8 TV Rehberi 20

### 8.1 TV Rehberini Kullanma 20

## 9 Oyunlar 21

### 9.1 Oyun Oynama 21

## 10 Profesyonel Menü Uygulaması 22

### 10.1 Profesyonel Menü Uygulaması Hakkında 22

### 10.2 Profesyonel Menü Uygulamasını Açma 22

### 10.3 Tavsiye edilenler 22

### 10.4 TV Kanalları 22

### 10.5 TV Kanalları 23

### 10.6 Google Cast 24

### 10.7 Oyunlar 24

### 10.8 Daha fazla bilgi 24

### 10.9 Profesyonel Ayarlar 25

### 10.10 Google Hesabı 26

## 11 Android TV Ana Menü Ekranı 27

### 11.1 Android TV Ana Menü Ekranı Hakkında 27

### 11.2 Android TV Ana Menü Ekranını Açma 27

### 11.3 Android TV Ayarları 27

### 11.4 Android TV'nizi bağlama 30

### 11.5 Kanallar 33

### 11.6 Kanal Kurulumu 34

### 11.7 İnternet 36

### 11.8 Akıllı Telefonlar ve Tabletler 36

### 11.9 Yazılım 36

## 12 Açık Kaynaklı Yazılım 38

### 12.1 Açık Kaynaklı Lisans 38

## 13 Yardım ve Destek 185

### 13.1 Sorun giderme 185

### 13.2 Çevrimiçi Yardım 187

### 13.3 Destek ve Onarım 187

## 14 Güvenlik ve Bakım 188

### 14.1 Güvenlik 188

### 14.2 Ekran Bakımı 189

### 14.3 Radyasyona Maruz Kalma Bildirimi (yalnızca dahili Wi-Fi için) 189

## 15 Kullanım Koşulları 190

### 15.1 Kullanım Şartları – TV 190

## 16 Telif hakları 191

### 16.1 HDMI 191

### 16.2 Dolby Audio 191

### 16.3 DTS-HD Premium Sound™ 191

### 16.4 Wi-Fi Alliance 191

### 16.5 Kensington 191

### 16.6 Diğer Ticari Markalar 191

## 17 Üçüncü tarafların sağladığı hizmetlerle ve/veya yazılımlarla ilgili sorumluluk reddi 192

## Dizin 193

# TV Turu

---

## Profesyonel Mod

---

### Yapabilecekleriniz

Profesyonel Mod AÇIK durumdayken, TV'nin durumunun gelişmiş kontrolünü sağlayan veya ek işlevler ekleyen birçok uzman ayarına erişebilirsiniz.

Bu mod; oteller, yolcu gemileri, stadyumlar gibi yerlerde veya bu tür kontrolün gerekli olduğu diğer iş yerlerinde TV kurulumları için tasarlanmıştır.

TV'yi evde kullanıyorsanız Profesyonel Modu KAPALI tutmanız önerilir.

Daha fazla bilgi için lütfen Profesyonel kurulum kılavuzuna bakın.

# Kurulum

## 2.1

### Güvenlik Talimatlarını Okuma

TV'nizi ilk kez kullanmadan önce güvenlik talimatlarını okuyun.

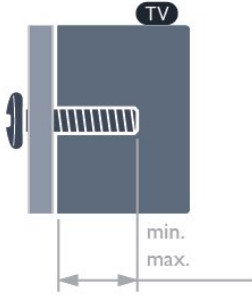
## 2.2

### Duvara Montaj

TV standının montajı için talimatları TV ile birlikte verilen Hızlı Başlangıç Kılavuzu'nda bulabilirsiniz. Bu kılavuzu kaybetmeniz halinde [www.philips.com](http://www.philips.com) adresinden indirebilirsiniz.

Yükleyeceğiniz Hızlı Başlangıç Kılavuzu'nu aramak için TV'nin ürün tipi numarasını kullanın.

TV'nizde VESA uyumlu bir duvara montaj braketi (ayrıca satılır) de kullanılabilir. Duvar montaj aparatını satın alırken aşağıdaki VESA kodunu kullanın. . .



- 50BFL2114  
VESA MIS-F 200x200, M6 (min.: 12 mm, maks.: 14 mm)
- 58BFL2114  
VESA MIS-F 300x200, M6 (min.: 18 mm, maks.: 22 mm)
- 65BFL2114  
VESA MIS-F 400x300, M6 (min.: 12 mm, maks.:18 mm)
- 70BFL2114  
VESA MIS-F 400x200, M8 (min.: 18 mm, maks.: 23 mm)
- 75BFL2114  
VESA MIS-F 600x400, M8 (min.: 18 mm, maks.: 28 mm)

#### Hazırlanışı

Öncelikle TV'nin arkasındaki dişlilerin 2 plastik vida başlığını çıkarın (50 inç ve 65 inç için).

TV'yi VESA uyumlu braketle monte etmek için metal vidaların, TV dişlileri içinde yaklaşık 10 mm derinliğe ulaştığından emin olun.

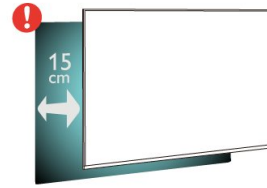
#### Dikkat

TV'nin duvara montajı için özel beceri gereklidir ve yalnızca yetkili personel tarafından yapılmalıdır. TV'yi duvara monte ederken TV'nin ağırlığına uygun şekilde güvenlik standartlarına uyulmalıdır. TV'yi yerleştirmeden önce güvenlik önlemlerini de okuyun. TP Vision Europe B.V., uygun olmayan montajlarla ya da kaza veya yaralanmaya neden olan diğer montaj yöntemleriyle ilgili hiçbir sorumluluk kabul etmemektedir.

## 2.3

### Yerleştirme hakkında İpuçları

- TV'yi, ışığın doğrudan ekran üzerinde parlamadığı bir yere yerleştirin.
- TV için ideal izleme mesafesi, çapraz ekran boyutunun üç katıdır. Otururken, gözleriniz ekranın ortasıyla aynı seviyede olmalıdır.
- Duvara monte ederken, TV'yi duvardan en fazla 15 cm uzağa yerleştirin.



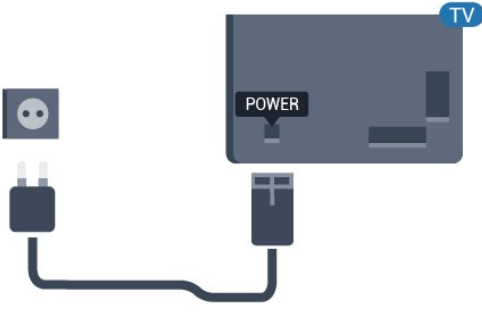
#### Not:

Lütfen TV'yi ocaklar gibi toz kaynaklarından uzak tutun. TV'ye toz girmesini önlemek için tozun düzenli olarak temizlenmesi önerilir.

## 2.4

### Güç Kablosu

- Güç kablosunu TV'nin arka tarafındaki **POWER** konektörüne takın.
- Güç kablosunun konektöre sıkıca takıldığından emin olun.
- Duvardaki prizin her zaman erişilebilir olduğundan emin olun.
- Güç kablosunu çıkarırken her zaman fişten tutarak çekin, asla kablodan tutarak çekmeyin.



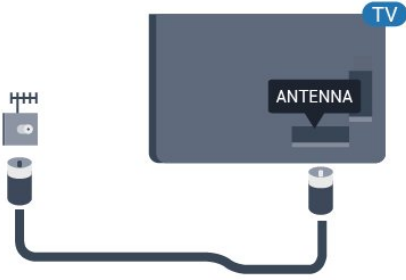
2.5

## Anten Kablosu

Antenin fişini TV'nin arkasındaki **Anten** soketine sıkıca takın.

Kendi anteninizi veya bir anten dağıtım sisteminin anten sinyalini bağlayabilirsiniz. IEC Koaksiyel 75 Ohm RF anten kablosu kullanın.

Bu anten kablosunu DVB-T ve DVB-C giriş sinyalleri için kullanın.



# Uzaktan Kumanda

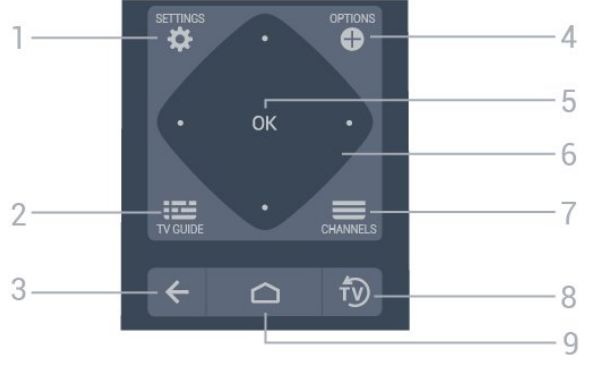
## Tuş genel bilgileri

### Üst



- 1 - Bekleme / Açık  
TV'yi açmak veya Bekleme moduna geri almak için.
- 2 - Youtube  
Youtube'u açmak için.
- 3 - Alarm (Yalnızca Profesyonel Mod AÇIK olduğunda)  
Alarmı ayarlamak için.
- 4 - Google Cast (Yalnızca Profesyonel Mod AÇIK olduğunda)  
Mobil cihazınızın ekranındaki içeriği TV'ye yansıtmak için.
- 5 - Hava Durumu (Yalnızca Profesyonel Mod AÇIK olduğunda)  
Konumunuzun hava durumu bilgilerini görüntülemek için.
- 6 - SMART INFO (Yalnızca Profesyonel Mod AÇIK olduğunda)  
Otel tarafından sağlanan bilgileri görüntülemek için.

### Orta



- 1 - SETTINGS  
Ayarlar menüsünü açmak için.
- 2 - TV GUIDE  
TV rehberi ile kanallarınızın geçerli ve programlanmış TV programları listesini açmak için.
- 3 - BACK  
• Seçtiğiniz önceki kanala dönmek için.  
• Önceki menüye dönmek için.
- 4 - OPTIONS  
Seçenekler menüsünü açmak veya kapatmak için.
- 5 - OK tuşu  
Bir seçimi veya ayarı onaylamak için.
- 6 - Ok/gezinme tuşları  
Yukarı , aşağı , sola veya sağa gitmek için.
- 7 - Kanal  
Kanal listesinde sonraki veya önceki kanala geçmek için.
- 8 - EXIT  
TV izlemeye dönmek için.
- 9 - HOME  
Ana menüyü açmak için.

### Alt



1 -  Ses Seviyesi

Ses seviyesini ayarlamak için.

2 -     Renkli tuşlar


Seçenekleri doğrudan seçmek için.

3 -  CLOCK

Saati görüntülemek için.

4 -  Kanal

Kanal listesinde sonraki veya önceki kanala geçmek için.

5 -  Sessiz

Sesi kapatmak veya yeniden açmak için.

---

3.2

## IR Sensörü

TV, komut göndermek için IR (kızılötesi) kullanan uzaktan kumandaların komutlarını alabilir. Bu tip bir uzaktan kumanda kullanıyorsanız uzaktan kumandayı mutlaka TV'nin ön tarafındaki kızılötesi sensörüne yöneltmeniz gerekir.

### Uyarı

IR sinyalini engelleyebileceğinden, TV'nin IR sensörünün önüne herhangi bir nesne koymayın.

---

3.3

## Temizleme

Uzaktan kumandanız çizilmeye dayanıklı kaplamaya sahiptir.

Uzaktan kumandayı temizlemek için yumuşak ve nemli bir bez kullanın. Uzaktan kumandayı temizlemek için kesinlikle alkol, kimyasal maddeler veya ev temizlik ürünleri kullanmayın.




# Açma ve Kapatma

## 4.1


### Açık veya Bekleme modunda

TV'nin şebeke AC gücüne bağlı olduğundan emin olun. Sağlanan güç kablosunu TV'nin arka tarafındaki AC girişi konektörüne takın. TV'nin alt kısmındaki gösterge ışığı yanar.

#### Açma

TV'yi açmak için uzaktan kumandadaki  tuşuna basın. Alternatif olarak  /  Ana Menü tuşuna basabilirsiniz. Uzaktan kumandayı bulamazsanız veya kumandanın pilleri boşaldıysa TV'yi arkasındaki veya altındaki küçük kumanda kolu tuşuna basarak da açabilirsiniz.

#### Bekleme moduna geçme

TV'yi bekleme moduna almak için uzaktan kumandadaki  tuşuna basın. Ayrıca, TV'nin arkasındaki veya altındaki küçük kumanda kolu tuşuna da basabilirsiniz.

Bekleme modunda TV hala şebeke gücüne bağlıdır ancak çok az enerji tüketir.

TV'yi tamamen kapatmak için güç fişini çekin. Güç fişini çekerken her zaman fişten tutarak çekin, asla kabloyu çekmeyin. Her zaman fiş, güç kablosu ve prize tam olarak erişim sağlayabilmeniz gerekir.




## 4.2

### TV üzerindeki tuşlar

Uzaktan kumandayı kaybettiyseniz veya pilleri bitmişse bazı temel TV işlemlerini yapmaya devam edebilirsiniz.


Temel menüyü açmak için...

1 - TV açıkken temel menüyü açmak için TV'nin arkasındaki veya altındaki kumanda kolu tuşuna basın.

2 -  Ses seviyesi,  Kanal veya  Kaynaklar'ı seçmek için sol veya sağ tuşuna basın.

3 - Ses düzeyini ayarlamak veya bir sonraki ya da bir önceki kanalı açmak için yukarı veya aşağı düğmesine basın. Tuner seçimi de dahil olmak üzere kaynaklar listesini gözden geçirmek için yukarı veya aşağı düğmesine basın.

4 - Menü otomatik olarak kaybolacaktır.

TV'yi bekleme moduna geçirmek için  ögesini seçin ve TV'nin arkasındaki veya altındaki kumanda kolu tuşuna basın.



# Teknik özellikler

## 5.1

### Çevresel

#### Ürün Verileri

##### 50BFL2114

- Enerji Verimliliği Sınıfı: A+
- Görünür Ekran Boyutu: 126 cm / 50 inç
- Açık Modda Güç Tüketimi (W): 70 W
- Yıllık Enerji Tüketimi (kWh) \*: 103 kWh
- Bekleme Modunda Güç Tüketimi (W) \*\*: 0,3 W
- Ekran Çözünürlüğü (Piksel): 3840 x 2160p

##### 58BFL2114

- Enerji Verimliliği Sınıfı: A+
- Görünür Ekran Boyutu: 146 cm / 58 inç
- Açık Modda Güç Tüketimi (W): 77 W
- Yıllık Enerji Tüketimi (kWh) \*: 113 kWh
- Bekleme Modunda Güç Tüketimi (W) \*\*: 0,3 W
- Ekran Çözünürlüğü (Piksel): 3840 x 2160p

##### 65BFL2114

- Enerji Verimliliği Sınıfı: A+
- Görünür Ekran Boyutu: 164 cm / 65 inç
- Açık Modda Güç Tüketimi (W): 99 W
- Yıllık Enerji Tüketimi (kWh) \*: 145 kWh
- Bekleme Modunda Güç Tüketimi (W) \*\*: 0,3 W
- Ekran Çözünürlüğü (Piksel): 3840 x 2160p

##### 70BFL2114

- Enerji Verimliliği Sınıfı: A+
- Görünür Ekran Boyutu: 178 cm / 70 inç
- Açık Modda Güç Tüketimi (W): 123 W
- Yıllık Enerji Tüketimi (kWh) \*: 180 kWh
- Bekleme Modunda Güç Tüketimi (W) \*\*: 0,3 W
- Ekran Çözünürlüğü (Piksel): 3840 x 2160p

##### 75BFL2114

- Enerji Verimliliği Sınıfı: A+
- Görünür Ekran Boyutu: 189 cm / 75 inç
- Açık Modda Güç Tüketimi (W): 113 W
- Yıllık Enerji Tüketimi (kWh) \*: 165 kWh
- Bekleme Modunda Güç Tüketimi (W) \*\*: 0,3 W
- Ekran Çözünürlüğü (Piksel): 3840 x 2160p

\* kWh cinsinden yıllık enerji tüketimi, 365 gün boyunca günde 4 saat çalışan televizyonun güç tüketimini temel alır. Gerçek enerji tüketimi televizyonun nasıl kullanıldığına bağlı olarak değişir.

\*\* TV uzaktan kumandayla kapatıldığında ve hiçbir işlev aktif değilken.

#### EPREL kayıt numarası

50BFL2114: 341971

58BFL2114: 341994

65BFL2114: 331905

70BFL2114: 342005

75BFL2114: 342001

## Kullanım Sonu

### Eski ürünün ve pillerin atılması

Ürününüz, geri dönüşüme tabi tutulabilen ve yeniden kullanılabilen, yüksek kalitede malzeme ve parçalardan tasarlanmış ve üretilmiştir.



Bu çarpı işaretli tekerlekli çöp arabası sembolü etiketin bir ürüne yapıştırılması, söz konusu ürünün 2012/19/EU sayılı Avrupa Yönergesi kapsamında olduğu anlamına gelir.



Lütfen, elektrikli ve elektronik ürünlerin toplanması ile ilgili bulunduğunuz yerdeki sistem hakkında bilgi edinin.

Lütfen, yerel kurallara uygun hareket edin ve eskiyen ürünlerinizi, normal evsel atıklarınızla birlikte atmayın. Eskiyen ürününüzün atık işlemlerinin doğru biçimde gerçekleştirilmesi, çevre ve insan sağlığı üzerinde olumsuz etkilere yol açılmasını önlemeye yardımcı olacaktır.

Ürününüz, 2006/66/EC sayılı Avrupa Yönergesi kapsamında olan ve normal evsel atıklarla birlikte atılmayan piller içerir.



Pillerin doğru şekilde atılması, çevre ve insan sağlığı için ortaya çıkabilecek olumsuz etkilerin engellenmesine yardım edeceğinden, pillerin ayrı olarak toplanması konusundaki yerel kanunlar hakkında bilgi edinin.

## 5.2

### Güç

Ürün özellikleri, önceden bildirim yapılmaksızın değiştirilebilir. Bu ürüne ait diğer özellik ayrıntıları için [www.philips.com/support](http://www.philips.com/support) adresini ziyaret edin

### Güç

- Şebeke elektriği: AC 220-240 V +/-%10
- Ortam sıcaklığı: 5°C - 35°C
- Güç tasarrufu özellikleri: Eco modu, Görüntü kapatma (radyo için), Otomatik kapatma zamanlayıcısı, Eco ayarları menüsü.

Elektrik tüketimi bilgileri için bkz. Ürün Verileri bölümü.

5.3

## İşletim Sistemi

Android OS :

Android Pie 9

5.4

## Alım

- Anten girişi: 75 ohm koaksiyel (IEC75)
- Alıcı bantları: Hyperband, UHF, VHF
- DVB: DVB-T2, DVB-C (kablo) QAM
- Analog video oynatma: SECAM, PAL
- Dijital video oynatma: MPEG2 SD/HD (ISO/IEC 13818-2), MPEG4 SD/HD (ISO/IEC 14496-10), HEVC\*
- Dijital ses çalma (ISO/IEC 13818-3)
- Giriş frekans aralığı: 950 - 2150 MHz
- Giriş seviyesi aralığı: 25 - 65 dBm

\* Yalnızca DVB-T2 için

5.5

## Ekran Türü

Çapraz ekran boyutu

- 126 cm / 50 inç
- 146 cm / 58 inç
- 164 cm / 65 inç
- 178 cm / 70 inç
- 189 cm / 75 inç

Ekran çözünürlüğü

- 3840 x 2160

5.6

## Görüntü Giriş Çözünürlüğü

Video formatları

Çözünürlük — Yenileme hızı

- 480i - 60 Hz
- 480p - 60 Hz
- 576i - 50 Hz
- 576p - 50 Hz
- 720p - 50 Hz, 60 Hz
- 1080i - 50 Hz, 60 Hz

- 1080p - 24 Hz, 25 Hz, 30 Hz
- 2160p - 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz

Bilgisayar formatları

Çözünürlükler (diğerleri arasında)

- 640 x 480 - 60 Hz
- 800 x 600 - 60 Hz
- 1024 x 768 - 60 Hz
- 1280 x 768 - 60 Hz
- 1360 x 765 - 60 Hz
- 1360 x 768 - 60 Hz
- 1280 x 1024 - 60 Hz
- 1920 x 1080 - 60 Hz
- 3840 x 2160 - 60 Hz

5.7

## Bağlantı (2114)

50 inç 58 inç 65 inç 70 inç

TV Yan

- Ortak Arayüz yuvası: CI+ CAM
- USB 1 - USB 3.0
- Kulaklık - 3,5 mm stereo mini jak
- HDMI 1 girişi - ARC - Ultra HD

TV Alt

- Ağ LAN - RJ45
- HDMI 2 girişi - ARC - Ultra HD
- Anten (75 ohm)
- USB 2 - USB 2.0
- 12 V DC çıkış
- 8 **Ω** Ses çıkışı
- DATA(RJ-48)

75 inç

TV Yan

- Ortak Arayüz yuvası: CI+ CAM
- USB 1 - USB 3.0
- Kulaklık - 3,5 mm stereo mini jak
- HDMI 1 girişi - ARC - Ultra HD

TV Alt

- Ağ LAN - RJ45
- HDMI 2 girişi - ARC - Ultra HD
- HDMI 3 girişi - ARC - Ultra HD
- Anten (75 ohm)
- USB 2 - USB 2.0
- 12 V DC çıkış
- 8 **Ω** Ses çıkışı
- DATA(RJ-48)

## Boyutlar ve Ağırlıklar

### 50BFL2114

• TV standı olmadan:

Genişlik 1127,64 mm – Yükseklik 655,31 mm – Derinlik 89,62 mm – Ağırlık  $\pm 11,1$  kg

### 58BFL2114

• TV standı olmadan:

Genişlik 1302,08 mm – Yükseklik 762,56 mm – Derinlik 89,92 mm – Ağırlık  $\pm 15$  kg

### 65BFL2114

• TV standı olmadan:

Genişlik 1463,88 mm – Yükseklik 848,7 mm – Derinlik 90,72 mm – Ağırlık  $\pm 20,94$  kg

### 70BFL2114

• TV standı olmadan:

Genişlik 1583,8 mm – Yükseklik 895,4 mm – Derinlik 92,7 mm – Ağırlık  $\pm 23,4$  kg

### 75BFL2114

• TV standı olmadan:

Genişlik 1683,2 mm – Yükseklik 974,4 mm – Derinlik 93,7 mm – Ağırlık  $\pm 33,5$  kg

## Ses

- Çıkış gücü (RMS): 20W
- Dolby Audio
- DTS HD

# Cihazları Bağlama

## 6.1

## Cihazları Bağlama

### Bağlantı Kılavuzu

Cihazı TV'ye kullanılabılır olan en yüksek kaliteli bağlantıyla bağlayın. Ayrıca, iyi görüntü ve ses aktarımı için kaliteli kablolar kullanın.

Bir cihaz bağladığınızda TV, bu cihazın türünü tanıır ve her bir cihaza doğru bir tür adı verir. İsterseniz tür adını değiştirebilirsiniz. Bir cihaz için doğru bir tür adı ayarlanırsa Kaynaklar menüsünde bu cihaza geçtiğinizde TV otomatik olarak ideal TV ayarlarına geçer.





### Anten bağlantı noktası





Bir Set Üstü Kutunuz (dijital alıcı) veya Kaydediciniz varsa anten kablolarını anten sinyalinin TV'den önce Set Üstü Kutu ve/veya Kaydediciden geçeceği biçimde bağlayın. Böylece, anten ve Set Üstü Kutu olası ilave kanalları kayıt için Kaydediciye gönderebilir.




### HDMI bağlantı noktaları

#### Cihazları çalıştırma

HDMI'ye bağlı cihazı çalıştırmak ve EasyLink'i ayarlamak için TV bağlantılarında cihazı veya etkinliğini seçin.

Profesyonel Mod KAPALI –  /  Ana Menü'ye basın,  Uygulamalar'ı seçin,  SOURCES 'ı seçin. HDMI bağlantısına bağlı bir cihaz seçin ve **Tamam**'a basın.

Profesyonel Mod AÇIK –  /  Ana Menü'ye basın,  TV Kanalları'nı seçin,  Kaynaklar 'ı seçin. HDMI bağlantısına bağlı bir cihaz seçin ve **Tamam**'a basın.

Cihaz seçildikten sonra TV uzaktan kumandası cihazı kontrol edebilir. Ancak  /  Ana Menü ve  OPTIONS tuşları ve bazı diğer TV tuşları cihaza yönlendirilmez.

İhtiyacınız olan tuş TV uzaktan kumandasında bulunmuyorsa tuş Seçenekler menüsünde seçebilirsiniz.

 OPTIONS tuşuna basın ve menü

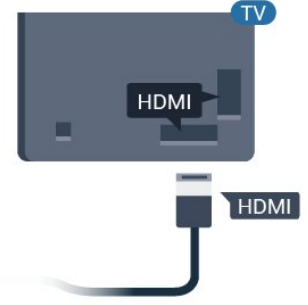
çubuğundan **Kontroller**'i seçin. Ekranda Gereken cihaz tuşunu ekranda seçin ve **Tamam** tuşuna basın. Bazı çok özel cihaz tuşları Kontroller menüsünde yer almayabilir.

Not: Sadece **EasyLink Uzaktan Kumanda** işlevini destekleyen cihazlar TV uzaktan kumandasına yanıt verir.

#### HDMI Kalitesi

En iyi görüntü ve ses kalitesi HDMI bağlantısı ile sağlanır. HDMI kablosunda hem görüntü hem de ses sinyalleri bir arada aktarılır. TV sinyali için HDMI kablosu kullanın.

En iyi sinyal kalitesinde aktarım için Yüksek Hızlı HDMI kablosu kullanın ve 5 metreden uzun HDMI kablosu kullanmayın.



#### Kopya koruması

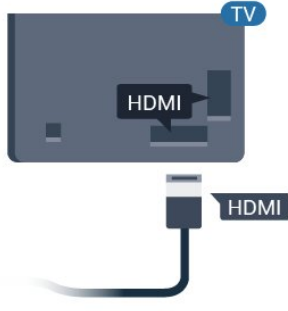
HDMI kabloları HDCP'yi (Yüksek Bant Genişliğine Sahip Dijital İçerik Koruması) destekler. HDCP, DVD disk veya Blu-ray Disk içindeki HD içeriğin kopyalanmasını önleyen bir kopya koruma sinylidir. DRM (Dijital Hak Yönetimi) olarak da adlandırılır.

#### HDMI ARC

TV'deki tüm HDMI bağlantılarında **HDMI ARC** (Ses Dönüş Kanalı) vardır.

Genellikle Ev Sinema Sistemi (HTS) olan cihazda HDMI ARC bağlantısı da varsa cihazı TV'deki HDMI bağlantılarından herhangi birine bağlayın. HDMI ARC bağlantısı sayesinde TV görüntüsünün sesini HTS'ye gönderen ilave bir ses kablosuna ihtiyaç duymazsınız. HDMI ARC bağlantısı iki sinyali birleştirir.

HTS'yi bağlamak için TV'deki herhangi bir HDMI bağlantısını kullanabilirsiniz, ancak ARC aynı anda yalnızca 1 cihaz/bağlantı için kullanılabılır.

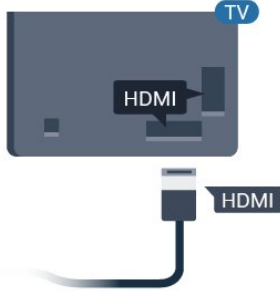


## HDMI CEC - EasyLink

En iyi görüntü ve ses kalitesi HDMI bağlantısı ile sağlanır. HDMI kablosunda hem görüntü hem de ses sinyalleri bir arada aktarılır. Yüksek Çözünürlüklü (HD) TV sinyalleri için bir HDMI kablosu kullanın. En iyi sinyal kalitesinde aktarım için Yüksek Hızlı HDMI kablosu kullanın ve 5 metreden uzun HDMI kablosu kullanmayın.

HDMI CEC uyumlu cihazları TV'nize bağlayın, bunları TV uzaktan kumandasıyla çalıştırabilirsiniz.

EasyLink HDMI CEC, TV'de ve bağlı cihazda açılmış olmalıdır.



### Not:

- EasyLink, farklı markaların cihazlarıyla çalışmayabilir.
- HDMI CEC işlevinin farklı markalarda farklı adları vardır. Bazı örnekler ise şu şekildedir: Anynet, Aquos Link, Bravia Theatre Sync, Kuro Link, Simplink ve Viera Link. Markaların tümü EasyLink ile tam uyumlu değildir. Örnek HDMI CEC marka adları ilgili sahiplerinin mülkiyetindedir.

## EasyLink Açma veya Kapatma

EasyLink'i açık veya kapalı olarak ayarlayabilirsiniz. TV'yi aldığınızda EasyLink ayarları açıktır.

EasyLink'i tamamen kapatmak için...

Profesyonel Mod KAPALI – / Ana Menü'ye

basın. (aşağı) tuşuna basın, Ayarlar'ı seçip OK tuşuna basın.

Kaynaklar > EasyLink'i seçin ve Tamam 'a basın.

EasyLink'i seçin ve Tamam tuşuna basın.

Kapalı seçeneğini seçin ve Tamam tuşuna basın.

Gerekirse menüyü kapatmak için BACK tuşuna arka arkaya basın.

Profesyonel Mod AÇIK – Lütfen kurulum kılavuzuna başvurun.

## EasyLink Uzaktan Kumanda

Cihazların iletişim kurmasını istiyor, ancak bunları TV uzaktan kumandasıyla çalıştırmak istemiyorsanız EasyLink Uzaktan Kumandasını ayrı olarak kapatabilirsiniz.

EasyLink Uzaktan Kumandayı açmak ve kapatmak için...

Profesyonel Mod KAPALI – / Ana Menü'ye basın. (aşağı) tuşuna basın, Ayarlar'ı seçin ve Tamam tuşuna basın.

Kaynaklar > EasyLink'i seçin ve Tamam 'a basın.

EasyLink Uzaktan Kumanda'yı seçin ve Tamam'a basın.

Açık veya Kapalı'yı seçin ve Tamam tuşuna basın.

Gerekirse menüyü kapatmak için BACK tuşuna arka arkaya basın.

Profesyonel Mod AÇIK – Lütfen kurulum kılavuzuna başvurun.

## 6.2

## Akıllı Kartlı CAM - CI+

### CI+

Bu TV, CI+ Koşullu Erişim kullanımına hazırdır.

CI+ ile bölgenizdeki dijital TV operatörleri tarafından yayınlanan filmler ve spor programları gibi özel HD programları izleyebilirsiniz. Bu programlar TV operatörü tarafından şifrelenir ve şifreleri ön ödemeli bir CI+ modülüyle çözülür.

Dijital TV operatörleri, premium programlarına abone olduğunuzda size bir CI+ modülü (Koşullu Erişim Modülü - CAM) ve bunun yanında akıllı kart sağlar. Bu programlar üst düzey bir kopyalama korumasına sahiptir.

Şartlar ve koşullar hakkında daha fazla bilgi almak için dijital TV operatörü ile iletişime geçin.



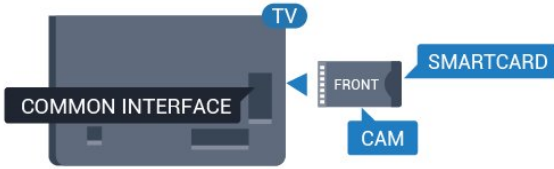
## Akıllı Kart

Dijital TV operatörleri, özel programlara abone olduğunuzda CI+ modülü (Koşullu Erişim Modülü - CAM) sağlar ve bununla birlikte akıllı kart verilir.

Akıllı kartı CAM modülüne takın. Operatörden aldığınız talimata bakın.

CAM'yi TV'ye takmak için...

- 1 - Doğru takma yöntemi CAM üzerinde gösterilir. Yanlış takılması CAM ve TV'ye zarar verebilir.
- 2 - TV'nin arkasına geçtiğinizde CAM'yi ön yüzü size doğru bakacak şekilde yavaşça **COMMON INTERFACE** yuvasına takın.
- 3 - CAM'yi gidebildiği kadar bastırın. Yuvada bırakın.



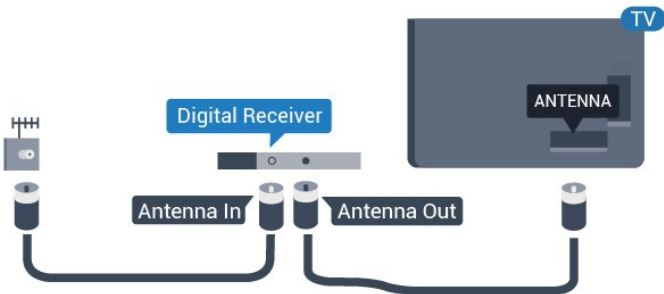
TV'yi açtığınızda CAM aktivasyonu birkaç dakika sürebilir. CAM takılmış ve abonelik ücretleri ödenmişse (abonelik yöntemleri farklı olabilir) CAM akıllı kartı tarafından desteklenen şifreli kanalları izleyebilirsiniz.

CAM ve akıllı kart TV'niz için özeldir. CAM'yi çıkarırsanız CAM tarafından desteklenen şifreli kanalları artık izleyemezsiniz.

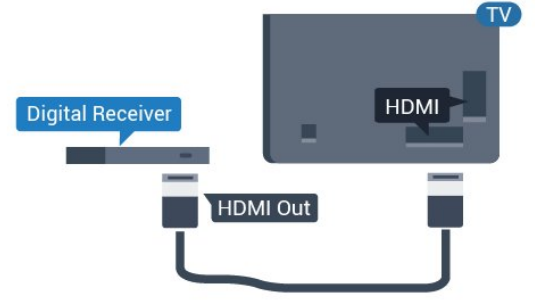
6.3

## Alıcı - Set Üstü Kutu

Anteni Set Üstü Kutusuna (dijital alıcı) ve TV'ye bağlamak için 2 anten kablosu kullanın.



Set Üstü Kutuyu TV'ye bağlamak için anten bağlantılarının yanına bir HDMI kablosu ekleyin.



6.4

## Ev Sinema Sistemi - HTS

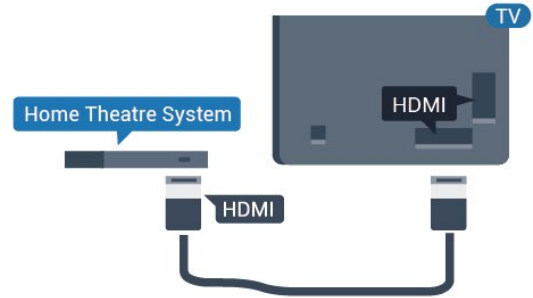
### HDMI ARC ile Bağlan

Ev Sinema Sisteminizi (HTS) TV'ye bağlamak için bir HDMI kablosu kullanın. Philips Soundbar veya dahili disk oynatıcısı olan bir HTS bağlayabilirsiniz.

#### HDMI ARC

Ev Sinema Sisteminizde HDMI ARC bağlantısı varsa bağlantı için TV'deki herhangi bir HDMI bağlantısını kullanabilirsiniz. HDMI ARC ile ilave ses kablosu bağlamanız gerekmez. HDMI ARC bağlantısı iki sinyali birleştirir.

TV'deki tüm HDMI bağlantılarında Ses Dönüş Kanalı (ARC) sinyali bulunur. Ancak Ev Sinema Sisteminizi bağladıktan sonra TV, ARC sinyalini yalnızca bu HDMI bağlantısına gönderebilir.



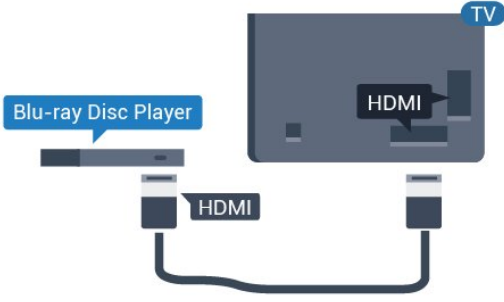
#### Ses ve görüntü senkronizasyonu (sync)

Ses ekrandaki görüntüyle eşleşmezse ses ve görüntüyü eşleştirmek için disk oynatıcılı çoğu Ev Sinema Sisteminde gecikme ayarlayabilirsiniz.

6.5

## Blu-ray Disk Oynatıcı


Blu-ray Disk oynatıcısı TV'ye bağlamak için bir Yüksek Hızlı HDMI kablosu kullanın.

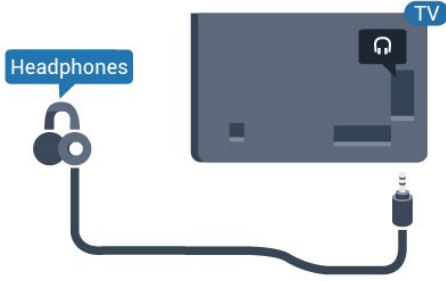


Blu-ray Disk oynatıcıda EasyLink HDMI CEC varsa oynatıcıyı TV uzaktan kumandasıyla çalıştırabilirsiniz.

6.6

## Kulaklıklar

TV'nin arka tarafındaki  bağlantısına kulaklık bağlayabilirsiniz. Bağlantı tipi 3,5 mm mini jaktır. Kulaklığın ses seviyesini ayrı olarak ayarlayabilirsiniz.

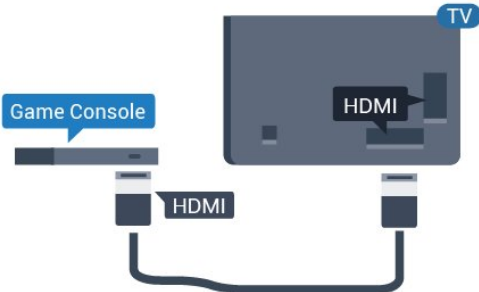


6.7

## Oyun Konsolu

### HDMI

En iyi kalite için oyun konsolunu TV'ye Yüksek Hızlı HDMI kablosuyla bağlayın.



6.8





## USB Flash Sürücü




Bağlı bir USB flash sürücüdeki fotoğraflarınızı görüntüleyebilir veya müzik ve video dosyalarınızı oynatabilirsiniz.


TV açıkken TV'deki USB bağlantılarından birine bir USB flash sürücü takın.



TV flash sürücüyü algılar ve sürücünün içeriğini gösteren bir liste açar. İçerik listesi otomatik olarak görüntülenmezse...

Profesyonel Mod KAPALI –  /  Ana Menü'ye basın,  Uygulamalar'ı seçin,  Kaynaklar 'ı seçin. USB'yi seçin ve **Tamam** tuşuna basın.

Profesyonel Mod AÇIK –  /  Ana Menü'ye basın, **TV Kanalları'nı**  seçin, **SOURCES** 'ı seçin. USB seçeneğini belirleyin ve **Tamam** tuşuna basın.

USB flash sürücü içeriğini izlemeyi durdurmak için  ögesine basın veya başka bir etkinlik seçin. USB flash sürücüyü istediğiniz zaman çekerek çıkarabilirsiniz.

6.9

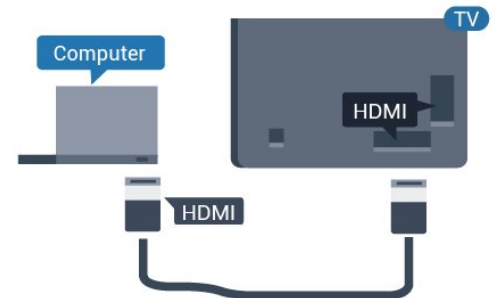
## Bilgisayar

### Bağlanın

Bilgisayarınızı TV'ye bağlayıp TV'yi PC monitörü olarak kullanabilirsiniz.

#### HDMI ile

Bir HDMI kablosu kullanarak bilgisayarın TV'ye bağlayın.







---

## İdeal Ayar


Bir bilgisayar bağlarsanız Kaynak menüsünde bilgisayarın bağlı olduğu bağlantıya doğru cihaz türü adını vermenizi öneririz. Kaynak menüsünde **Bilgisayar**'a geçiş yaparsanız TV otomatik olarak ideal Bilgisayar ayarına sahip olur.






TV'yi ideal ayara getirmek için...

Profesyonel Mod KAPALI –  /  Ana Menü'ye basın.  (aşağı) tuşuna basın, **Ayarlar**'ı seçin ve **Tamam** tuşuna basın.

Menüye girmek için **Görüntü** ögesini seçin ve  (sağ) tuşuna basın. **Görüntü Tarzı** > **Bilgisayar**'ı seçin ve **Tamam**'a basın.


**Açık** veya **Kapalı**'yı seçin ve **Tamam**'a basın.

Gerekirse arka arkaya  tuşuna basarak menüyü kapatabilirsiniz.

Profesyonel Mod AÇIK –  /  Ana Menü >  **Daha çok** >  **Ayarlar** >  **Görüntü** öğelerine basın. **Tamam** tuşuna basın.

**Görüntü Tarzı** > **Bilgisayar**'ı seçin ve **Tamam**'a basın.

**Açık** veya **Kapalı**'yı seçin ve **Tamam**'a basın.

Gerekirse arka arkaya  tuşuna basarak menüyü kapatabilirsiniz.

(Profesyonel mod bilgileri için lütfen Kurulum kılavuzuna başvurun)



# Videolar, Fotoğraflar ve Müzik

## 7.1

### USB Bağlantısından

Bağlı bir USB flash sürücü veya USB Sabit Sürücüdeki fotoğraflarınızı görüntüleyebilir veya müzik ve video dosyalarınızı oynatabilirsiniz.

TV açıkken USB bağlantılarından birine bir USB flash sürücü veya USB Sabit Sürücü takın. TV cihazı algılar ve ortam dosyalarınızı listeler.

Dosya listesi otomatik olarak görüntülenmiyorsa...

- 1 - CHANNELS'a basın ve Kaynaklar'ı seçin.
- 2 - Ortam 'ı seçin ve Tamam'a basın.
- 3 - Dosyalarınıza sürücüde düzenlediğiniz klasör yapısında göz atabilirsiniz.
- 4 - Video, fotoğraf ve müzik oynamayı durdurmak için tuşuna basın.

## 7.2

### Videolarınızı Oynatma

#### Video Oynatma

Video klasörünü açma

- 1 - CHANNELS'a basın ve Kaynaklar'ı seçin.
- 2 - Ortam 'ı ve ardından Videolar'ı seçip Tamam'a basın.

Klasöre geri gitmek için ögesine basın.

Video oynatma

- 1 - CHANNELS'a basın ve Kaynaklar'ı seçin.
- 2 - Ortam 'ı ve ardından Videolar'ı seçip Tamam'a basın.
- 3 - Bir videoyu seçin; klasördeki tüm dosyaları oynatmak için Tümünü oynat'a basabilir veya seçilen videoyu favori menüsü olan Favoriler'e eklemek için Favori olarak işaretle ögesine basabilirsiniz.

Videoyu duraklatmak için OK tuşuna basın. Devam etmek için OK tuşuna tekrar basın.

Kontrol çubuğu

Video oynatılırken kontrol çubuğunu göstermek veya gizlemek için OK tuşuna basın.



- 1 - İlerleme çubuğu
- 2 - Oynatma kontrol çubuğu
  - : Klasörde önceki videoya atlar
  - : Klasörde sonraki videoya atlar
  - : Geri sarar
  - : İleri sarar
  - : Oynatmayı duraklatır

- 3 - Favori olarak işaretler
- 4 - Tüm videoları oynatır
- 5 - Altyazı: Altyazıları Açık, Kapalı veya Sessizde Açık duruma getirir.
- 6 - Altyazı dili: Altyazı Dili seçin (Profesyonel Mod AÇIK durumdayken kullanılamaz.)
- 7 - Ses dili: Ses dili seçer
- 8 - Rastgele: Dosyalarınızı rastgele bir sırayla oynatır
- 9 - Tekrarla: Bu klasördeki tüm videoları bir kez veya sürekli olarak oynatır

### Video Seçenekleri

Video oynatımı sırasında OPTIONS'a basın, Bilgi'yi seçin ve Tamam'ı seçerek...

- Favori Olarak İşaretle – Seçili videoyu favori olarak ayarlar.
- Tümünü Oynat – Bu klasördeki tüm video dosyalarını oynatır.
- Altyazı – Altyazı varsa altyazılar için Açık, Kapalı veya Sessizde Açık seçimi yapabilirsiniz.
- Ses Dili – Varsa bir Ses Dili seçin.
- Rastgele – Dosyalarınızı rastgele bir sırayla oynatır.
- Tekrarla – Bu klasördeki tüm videoları bir kez veya sürekli olarak oynatır.

## 7.3

### Fotoğraflarınızı Görüntüleme

## Fotoğrafları Görüntüleme

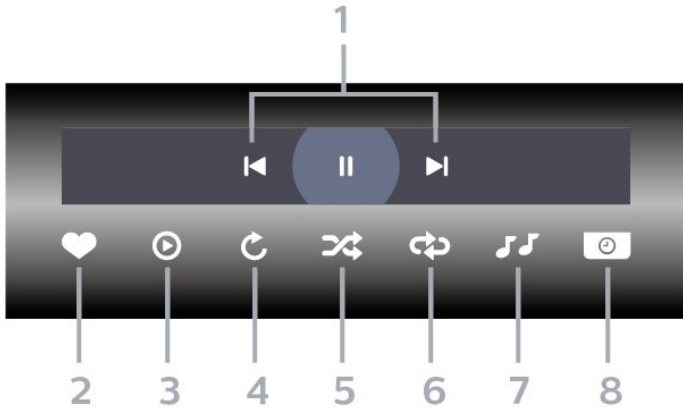
Fotoğraf klasörünü açma

- 1 - CHANNELS'a basın ve Kaynaklar'ı seçin.
- 2 - Ortam'ı ve ardından Fotoğraflar'ı seçip Tamam tuşuna basın.

Fotoğraf görüntüleme

- 1 - CHANNELS'a basın ve Kaynaklar'ı seçin.
- 2 - Ortam'ı ve ardından Fotoğraflar'ı seçip Tamam tuşuna basın.
- 3 - Fotoğraflar'ı ve bir fotoğraf seçin, klasördeki tüm dosyaları oynatmak için Slayt gösterisi düğmesine basabilir veya seçilen fotoğrafı favori menüsüne Favoriler eklemek için Favori olarak işaretle düğmesine basabilirsiniz.

Kontrol çubuğu



- 1 - Oynatma kontrol çubuğu
  - ◀: Klasörde önceki fotoğrafa atlar
  - ▶: Klasörde sonraki fotoğrafa atlar
  - ||: Slayt gösterisi oynatmayı duraklatır
- 2 - Favori olarak işaretler
- 3 - Slayt gösterisi başlatır
- 4 - Fotoğrafı döndürür
- 5 - Rastgele: Dosyalarınızı rastgele bir sırayla oynatır
- 6 - Tekrarla: Bu klasördeki tüm fotoğrafları bir kez veya sürekli olarak oynatır
- 7 - Arka planda çalan müziği durdurma (Professional Mod AÇIK durumdayken kullanılamaz)
- 8 - Slayt gösterisinin hızını ayarlar

## Fotoğraf Seçenekleri

Video oynatımı sırasında + OPTIONS'a basın, Bilgi'yi seçin ve Tamam'ı seçerek...

- Favori olarak işaretler
- Slayt gösterisi başlatır
- Fotoğrafı döndürür
- Rastgele: Dosyalarınızı rastgele bir sırayla oynatır
- Tekrarla: Bu klasördeki tüm fotoğrafları bir kez veya sürekli olarak oynatır
- Arka planda çalan müziği durdurma (Professional Mod AÇIK durumdayken kullanılamaz)
- Slayt gösterisinin hızını ayarlar

7.4

## Müzik Çalma

### Müzik Çalma

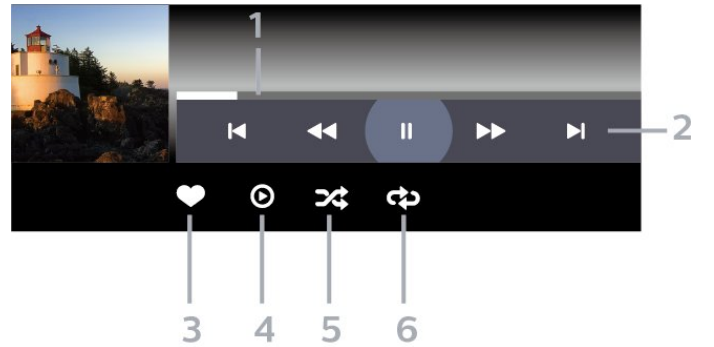
Müzik klasörünü açma

- 1 - CHANNELS'a basın ve Kaynaklar'ı seçin.
- 2 - Ortam'ı ve ardından Müzik'i seçip Tamam tuşuna basın.

Müzik çalma

- 1 - CHANNELS'a basın ve Kaynaklar'ı seçin.
- 2 - Ortam'ı ve ardından Müzik'i seçip Tamam tuşuna basın.
- 3 - Müzik klasörünü favori menüsü olan Favoriler'e eklemek için İşaretle ögesine basabilirsiniz.
- 4 - Sınıflandırmayı kullanarak hızlıca müzik bulabilirsiniz: Türler, Sanatçılar, Albümler, Parçalar.

Kontrol çubuğu



- 1 - İlerleme çubuğu
- 2 - Oynatma kontrol çubuğu
  - ◀: Klasörde önceki müziğe atlar
  - ▶: Klasörde sonraki müziğe atlar
  - ◀◀: Geri sarar
  - ▶▶: İleri sarar
  - ||: Oynatmayı duraklatır

- 3 - Favori olarak işaretler
- 4 - Tüm müziği çalar
- 5 - Rastgele: Dosyalarınızı rastgele bir sırayla oynatır
- 6 - Tekrarla: Bu klasördeki tüm müziği bir kez veya sürekli olarak çalar

---

## Müzik Seçenekleri

Müzik oynatırken **+** OPTIONS'a basın, Bilgi'yi seçin ve Tamam'ı seçerek...

- Favori olarak işaretler
- Tüm müziği çalar
- Rastgele: Dosyalarınızı rastgele bir sırayla oynatır
- Tekrarla: Bu klasördeki tüm müziği bir kez veya sürekli olarak çalar

# TV Rehberi

---

## 8.1

### TV Rehberini Kullanma

---

#### TV Rehberini Açma

TV Rehberini açmak için  TV GUIDE tuşuna basın. TV Rehberi seçilen alıcının kanallarını gösterir.

Kapatmak için tekrar  TV GUIDE tuşuna basın.

TV Rehberini ilk açtığınızda TV, program bilgileri için tüm TV kanallarını tarar. Bu işlem birkaç dakika sürebilir. TV Rehberi verileri TV'de kaydedilir.

# Oyunlar




9.1

## Oyun Oynama


### Oyun Konsolundan


Oyun Konsolundan bir oyunu başlatmak için...


Oyun Konsolunu açın.

Profesyonel Mod KAPALI –  /  Ana Menü'ye basın,  Uygulamalar'ı seçin. Kaynaklar'ı seçin ve Tamam'a basın.


Oyunu başlatın.


← BACK tuşuna art arda basın  
veya  EXIT tuşuna basın ya da uygulamayı kendine ait çıkış/durdurma düğmesiyle durdurun.

Bir Oyun Konsolunu bağlama hakkında daha fazla bilgi için Yardım'da  Anahtar Kelimeler tuşuna basın ve Oyun Konsolu, bağlantı konusuna bakın.

Profesyonel Mod AÇIK –  SOURCES'a basın ve bir oyun konsolu ya da bağlantı adı seçin.




Oyunu başlatın.

← BACK tuşuna art arda basın  
veya  EXIT tuşuna basın ya da uygulamayı kendine ait çıkış/durdurma düğmesiyle durdurun.


Bir Oyun Konsolunu bağlama hakkında daha fazla bilgi için Yardım'da  Anahtar Kelimeler tuşuna basın ve Oyun Konsolu, bağlantı konusuna bakın.




### Uygulamalardan

Oyun Uygulamaları'ndan bir oyun başlatmak için...


Profesyonel Mod Kapalı –  /  Ana Menü'ye basın,  Uygulamalar'ı ve ardından Google Play Oyunlar'ı seçin.

Google hesabınızda oturum açın ve bir oyun başlatın.

← BACK tuşuna art arda basın  
veya  EXIT tuşuna basın ya da uygulamayı kendine ait çıkış/durdurma düğmesiyle durdurun.

Profesyonel Mod AÇIK –  /  Ana Menü'ye basın.  Oyunlar'ı seçin.

Google hesabınızda oturum açın ve bir oyun başlatın.

← BACK tuşuna art arda basın  
veya  EXIT tuşuna basın ya da uygulamayı kendine ait çıkış/durdurma düğmesiyle durdurun.

# Profesyonel Menü Uygulaması

## Profesyonel Menü Uygulaması Hakkında

TV ile yapabileceğiniz tüm etkinlikleri Profesyonel Menü Uygulamasından başlatabilirsiniz.

Profesyonel Menü Uygulamasının sol kısmı satırlar halinde düzenlenmiştir...

- Tavsiye edilenler
- TV Kanalları
- Cast
- Uygulamalar
- Oyunlar
- Daha fazlası

Profesyonel Menü Uygulamasının sağ üst kısmı satırlar halinde düzenlenmiştir...

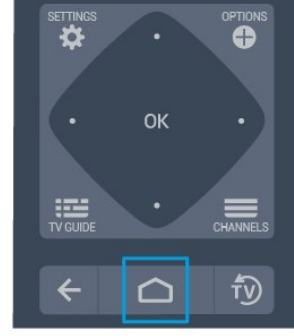
- Hesabı Yönet
- Alarm Ayarla
- Hava Durumu
- Menü Dili
- Geçerli Saat

## Profesyonel Menü Uygulamasını Açma

Profesyonel Mod KAPALI - Lütfen "Android TV Ana Menü Ekranı" Bölümüne başvurun.

Profesyonel Mod AÇIK- Profesyonel Menü Uygulamasını ve bir öğeyi açmak için...

- 1 - Ana Menü / tuşuna basarak Profesyonel Menü Uygulaması'nı açın.
- 2 - Ok tuşlarını kullanarak bir etkinlik seçin ve **OK** tuşuna basarak etkinliği başlatın.
- 3 - Profesyonel Menü Uygulamasını geçerli etkinliği değiştirmeden kapatmak için tuşuna basın.



Profesyonel Menü Uygulamasını açarken arka planda oynatılan uygulama/içerik durdurulur. Devam etmek için Profesyonel Menü Uygulamasından uygulamayı veya içeriği seçmeniz gerekir.

## Tavsiye edilenler

Profesyonel Menü Uygulamasını ve Tavsiye edilenler'i açmak için...

- 1 - Profesyonel Menü Uygulamasını açın.
- 2 - **Tavsiye edilenler'i** seçin ve açmak ya da başlatmak için **Tamam** tuşuna basın.
- 3 - Önerilen TV Kanalları'nı seçin. Listedeki bir kanal seçin ve **Tamam** tuşuna basın.
- 4 - Uygulamalar'ı seçin. Listedeki bir Uygulama seçin ve **Tamam** tuşuna basın.

## TV Kanalları

### Kanal Listeleri

#### Kanal Listeleri Hakkında

Kanal kurulumundan sonra tüm kanallar kanal listesinde görünür. Kanallar, bu bilgiler mevcutsa adları ve logolarıyla birlikte gösterilir.

Bir kanal listesi seçiliyken (yukarı) veya (aşağı) oklarına basarak bir kanal seçin, ardından seçtiğiniz kanalı izlemek için **Tamam** tuşuna basın. Bu listedeki kanalları yalnızca + veya - tuşlarını kullanarak açarsınız.







#### Radio istasyonları

Dijital yayın varsa kurulum sırasında dijital radyo

istasyonları kurulur. Radyo kanallarına tıpkı TV kanallarında olduğu gibi geçebilirsiniz.


## Kanal Listesini Açma

Geçerli kanal listesini açmak için...



1. TV'ye geçiş yapmak için  öğesine basın.
2. Geçerli kanal listesini açmak için  CHANNELS'a basın. Hem TV hem de Radyo kanallarını göstermek için  Tüm Kanallar'ı seçin. Sadece TV Kanallarını göstermek için  öğesini seçin. Sadece Radyo kanallarını göstermek için  öğesini seçin.
3. Kanal listesini kapatmak için  CHANNELS'a tekrar basın.

## Kanalları izleme


### Bir Kanalı Açma

TV kanallarını izlemeye başlamak için  öğesine basın. TV, en son izlediğiniz kanala geçer.


### Kanal değiştirme

- Kanal değiştirmek için  + veya  - öğesine basın.

### Önceki kanal

- Önceden izlenen kanala geri dönmek için  BACK tuşuna basın.

### Kanal listesi

Bir TV kanalını izlerken kanal listesini açmak için  öğesine basın.

## Kanal, Seçenekler

### Seçenekleri Açın

Bir kanalı izlerken bazı seçenekleri ayarlayabilirsiniz.

İzlediğiniz kanalın tipine (analog veya dijital) veya yaptığınız TV ayarlarına bağlı olarak bazı seçenekler kullanılabilir.

Seçenekler menüsünü açmak için...

- 1 - Bir kanalı izlerken  OPTIONS tuşuna basın.
- 2 -  OPTIONS tuşuna tekrar basarak kapatın.





10.5

## TV Kanalları

## Kanal Listeleri

### Kanal Listeleri Hakkında

Kanal kurulumundan sonra tüm kanallar kanal listesinde görünür. Kanallar, bu bilgiler mevcutsa adları ve logolarıyla birlikte gösterilir.






Bir kanal listesi seçiliyken kanal seçmek için  (yukarı) veya  (aşağı) oklarını kullanın, ardından seçili kanalı izlemek için **Tamam'a** basın. Bu listedeki kanalları yalnızca  + veya  - tuşlarını kullanarak açarsınız.

### Radyo istasyonları

Dijital yayın varsa kurulum sırasında dijital radyo istasyonları kurulur. Radyo kanallarına tıpkı TV kanallarında olduğu gibi geçebilirsiniz.


## Kanal Listesini Açma

Geçerli kanal listesini açmak için...



1. TV'ye geçiş yapmak için  öğesine basın.
2. Geçerli kanal listesini açmak için  CHANNELS'a basın. Hem TV hem de Radyo kanallarını göstermek için  Tüm Kanallar'ı seçin. Sadece TV Kanallarını göstermek için  öğesini seçin. Sadece Radyo kanallarını göstermek için  öğesini seçin.
3. Kanal listesini kapatmak için  CHANNELS'a tekrar basın.

## Kanalları izleme


### Bir Kanalı Açma

TV kanallarını izlemeye başlamak için  öğesine basın. TV, en son izlediğiniz kanala geçer.


### Kanal değiştirme

- Kanal değiştirmek için  + veya  - öğesine basın.

### Önceki kanal

- Önceden izlenen kanala geri dönmek için  BACK tuşuna basın.

### Kanal listesi

Bir TV kanalını izlerken kanal listesini açmak için  öğesine basın.

## Kanal, Seçenekler

### Seçenekleri Açın

Bir kanalı izlerken bazı seçenekleri ayarlayabilirsiniz.

İzlediğiniz kanalın tipine (analog veya dijital) veya yaptığınız TV ayarlarına bağlı olarak bazı seçenekler kullanılabilir.

Seçenekler menüsünü açmak için...

- 1 - Bir kanalı izlerken **+** **OPTIONS** tuşuna basın.
- 2 - **+** **OPTIONS** tuşuna tekrar basarak kapatın.

10.6

## Google Cast

### Gerekenler

Mobil cihazınızdaki bir uygulama Google Cast özeliğine sahipse uygulamanızı bu TV'ye gönderebilirsiniz. Mobil uygulamada Google Cast simgesini arayın. TV'de gösterilen içeriği kontrol etmek için mobil cihazınızı kullanabilirsiniz. Google Cast Android ve iOS'de çalışır.

Mobil cihazınız TV'niz ile aynı Wi-Fi ev ağına bağlı olmalıdır.

### Google Cast özellikli Uygulamalar

Yeni Google Cast uygulamaları her gün yayınlanmaktadır. Bu özelliği hemen YouTube, Chrome, Netflix, Photowall veya Big Web Quiz for Chromecast ile deneyebilirsiniz. Ayrıca bkz. [google.com/cast](http://google.com/cast)


Bazı Google Play ürün ve özellikleri tüm ülkelerde kullanılamaz.

[support.google.com/androidtv](http://support.google.com/androidtv) adresinden ayrıntılı bilgi edinebilirsiniz

## TV'nize Gönderme

Bir uygulamayı TV ekranına göndermek için...



Profesyonel Menü Uygulamasını ve Cast'i açmak için...

- 1 - Profesyonel Menü Uygulamasını açın.
- 2 - **Cast**  ögesini seçin ve açmak ya da başlatmak için **Tamam** tuşuna basın.
- 3 - Wi-Fi Direct'i kullanarak Akıllı Telefonu TV'ye bağlayın (QR kodunu tarayın veya WiFi SSID'yi ve parolayı kullanın). Google Cast destekleyen bir uygulama açın.
- 4 - Google Cast simgesine dokunun.
- 5 - Göndermek istediğiniz TV'yi seçin.
- 6 - Akıllı telefon veya tabletinizde oynat ögesine basın. Seçtiğiniz öge TV'de oynatılmaya başlar.

10.7

## Oyunlar

Profesyonel Menü Uygulamasını ve Oyunlar'ı açmak için...






- 1 - Profesyonel Menü Uygulaması'nı açmak için  /  Ana Menü'ye basın.

- 2 - **Oyunlar** 'ı  seçin ve **Tamam** tuşuna basın.

### İdeal oyun ayarı

Hız ve netlik gerektiren bazı oyunlarda, oyuna başlamadan önce TV'yi ideal **Oyun** ayarına getirin. Oyun konsolunuz Kaynaklar menüsünde cihazın **Oyun** tipi (bağlantı listesi) olarak eklenirse TV otomatik olarak ideal oyun ayarlarına ayarlanır. Oyun konsolunuzun tipi **Oynatıcı** olarak ayarlanır ve çoğunlukla disk oynatıcı olarak kullanılırsa cihaz tipini **Oynatıcı** olarak bırakın.


TV'yi ideal ayara manuel olarak ayarlamak için . . .

- 1 -  /  Ana Menü > **...** Daha çok >  Ayarlar >  Görüntü > Görüntü tarzı öğelerini seçin.
- 2 - **Oyun** seçeneğini belirleyin ve **Tamam** tuşuna basın.
- 3 - Gerekirse arka arkaya  tuşuna basarak menüyü kapatabilirsiniz. Oyun oynamayı bitirdiğinizde Oyun veya bilgisayar ayarını tekrar Kapat'a getirmeyi unutmayın.

10.8

## Daha fazla bilgi

Profesyonel Menü Uygulamasını ve Daha çok'u açmak için...

- 1 - Profesyonel Menü Uygulamasını açın.
- 2 - **...** Daha çok'u seçin ve açmak ya da başlatmak için **Tamam** tuşuna basın.
- 3 -  Ayarlar'ı seçin.

• Görüntü :


Önayarlı görüntü tarzları arasında geçiş yapın. Film veya fotoğraf görüntülemek vb. için ideal tarzlar mevcuttur.

• Ses :

Önayarlı ses tarzları arasında geçiş yapın. Film izlemek, müzik dinlemek veya oyun oynamak için ideal tarzlar mevcuttur.

• Görüntü Formatı :

Ekranı uyan bir görüntü formatı seçin.

• Menü Dili :


Dilinizi seçin ve OK tuşuna basın.

- 4 -  Özellikleri'ni seçin ve **Tamam**'a basın.

• Alarm ayarla :

TV'de bir alarm ayarlanabilir. TV tanımlı bir alarm




saatinde uyanabilir. Alternatif olarak alarm saati uzaktan kumandadaki  tuşuna basılarak ayarlanabilir.

• Uyku Zamanlayıcısı :

Kaydırma çubuğu ile süreyi 180 dakikaya kadar 5'er dakika aralıklarla ayarlayabilirsiniz. Süre 0 dakika olarak ayarlanırsa uyku zamanlayıcısı kapanır. Geri sayım sırasında istediğiniz zaman TV'nizi kapatabilir veya süreyi sıfırlayabilirsiniz.

• Hava Durumu :

Mevcut konum için 5 günlük hava durumu tahmini içeren gözlemlenen sıcaklığı gösterir. Alternatif olarak alarm saati uzaktan kumandadaki  tuşuna basılarak ayarlanabilir.

• TV Rehberi:

TV'yi, TV Rehberi bilgilerini yayıncıdan veya internetten alacak şekilde ayarlayın.

• TalkBack  :

TalkBack, görme engelli kullanıcıların ekrandaki içerik hakkında bilgi almak için konuşarak bu TV ile etkileşime geçmesine ve TV'nin keyfini çıkarmasına yardımcı olur.






5 - Kişisel'i  seçin ve Tamam tuşuna basın.

10.9


## Profesyonel Ayarlar

### Görüntü Tarzı

Tarz seçme

 /  Ana Menü >  Daha çok >  Ayarlar >  Görüntü > Görüntü tarzı öğelerine basın.

Görüntüyü kolayca ayarlamak için önceden ayarlanmış bir görüntü tarzı seçebilirsiniz.

- Kişisel - İlk başlatma sırasında ayarladığınız görüntü tercihleri.
- Canlı - Gün ışığında izlemek için idealdir
- Doğal - Doğal görüntü ayarları
-  Standart - En fazla enerji tasarrufu sağlayacak ayar - Fabrika ayarı
- Film - Film izlemek için idealdir
- Oyun - Oyun oynamak için idealdir
- Bilgisayar - Bilgisayara bağlanmak için idealdir

### Görüntü Formatı

Görüntü formatını seçme

Görüntü tam ekranı doldurmuyorsa üstte veya altta veya her iki tarafta siyah çubuklar görülüyorsa görüntüyü ekranı tamamen dolduracak şekilde ayarlayabilirsiniz.

Ekranı dolduracak temel ayarlardan birini seçmek için...

 /  Ana Menü >  Daha çok >  Ayarlar >  Görüntü tarzı öğelerine basın.

Ekrandaki görüntüye göre aşağıdaki formatlar kullanılabilir.

- Geniş ekran
- Ekranı doldur
- Ekranı Sığdır
- Ölçeksiz

### Ses Tarzı

Tarz seçme






 /  Ana Menü >  Daha çok >  Ayarlar >  Ses > Ses tarzı öğelerine basın.

Sesi kolayca ayarlamak için ses tarzı ile önceden ayarlanmış bir ayar seçebilirsiniz.

- Kişisel - Görüntü ve sesi kişiselleştir bölümünde yapmış olduğunuz kişisel seçimler
- Orijinal - En doğal ses ayarı
- Film - Film izlemek için idealdir
- Müzik - Müzik dinlemek için idealdir
- Oyun - Oyun oynamak için idealdir
- Haberler - Konuşmalar için idealdir

### Dil






TV menüsü ve mesajlarının dilini değiştirme

 /  Ana Menü >  Daha çok >  Ayarlar >  Menü Dili öğelerine basın.

Dilinizi seçin ve OK tuşuna basın.

### Eko Ayarları






Enerji tüketiminden tasarruf etmek için ekran kapalı olarak ayarlama

 /  Ana Menü >  Daha çok >  Özellikler >  Uyku Zamanlayıcısı > Ekran Kapalı öğelerine basın.

TV'de yalnızca müzik dinliyorsanız TV ekranını kapatabilirsiniz.

Yalnızca TV ekranı kapanır. Ekranı tekrar açmak için uzaktan kumandadaki herhangi bir tuşa basın.

TV kapatma zamanlayıcısını ayarlama

 /  Ana Menü >  Daha çok >  Özellikler >  Uyku Zamanlayıcısı > Uyku Zamanlayıcısı öğelerine basın.

Değeri ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın. 0 değeri (Kapalı) otomatik kapanmayı devre dışı bırakır.

Kapatma zamanlayıcısını seçin, enerji tasarrufu yapmak için TV otomatik olarak kapanır.

\* TV sinyali alıyorsa ancak 4 saat süresince uzaktan kumandada bir tuşa basmazsanız TV kapanır.

\* TV, 10 dakika süresince TV sinyali ya da uzaktan kumanda komutu almazsa kapanır.

\* TV'yi monitör olarak kullanıyorsanız veya TV izlemek için dijital bir alıcı kullanıyorsanız (Set Üstü Kutu - STB) ve TV'nin uzaktan kumandasını kullanmıyorsanız değeri 0 olarak ayarlamak için bu otomatik kapanma özelliğini devre dışı bırakmanız gerekir.

---

10.10

## Google Hesabı

---

### Oturum Aç

Philips Android TV'nizin özelliklerinden tam olarak faydalanmak için Google Hesabınız ile Google'da oturum açabilirsiniz.

Oturum açarak favori oyunlarınızı telefon, tablet ve TV'de oynayabilirsiniz. Ayrıca, TV giriş ekranınızda özelleştirilmiş video ve müzik önerileri ile YouTube, Google Play ve diğer uygulamalara erişim elde edersiniz.

TV'nizde Google'da oturum açmak için var olan **Google Hesabınızı** kullanın. Bir Google Hesabı, e-posta adresi ile paroladan oluşur. Henüz Google Hesabınız yoksa oluşturmak için bilgisayarınızı veya tabletinizi kullanın (accounts.google.com). İlk TV kurulumu sırasında oturum açmadıysanız daha sonra oturum açabilirsiniz.

### Oturum Aç

🏠 / 🏠 ögesine basın > Profesyonel Menü Uygulaması ekranını açın.

Profesyonel Menü Uygulaması ekranının sağ üst kısmındaki Hesabı Yönet ögesini seçin ve **Tamam'a** basın. Ekran klavyesiyle e-posta adresinizi ve parolanızı girin, oturum açmak için aynı **Tamam** tuşuna basın.

# Android TV Ana Menü Ekranı

11.1

## Android TV Ana Menü Ekranı Hakkında

Android TV'nin avantajlarından yararlanmak için TV'yi internet'e bağlayın.

Android akıllı telefonunuzda veya tabletinizde olduğu gibi Ana ekran TV'nizin merkezidir. Ana ekrandan, uygulama ve canlı TV eğlence seçeneklerinde gezinerek ne izleyeceğinize karar verebilirsiniz. Ana menünüzde, favori uygulamalarınızdan harika içerikleri keşfetmenizi sağlayacak kanallar vardır. Ayrıca, daha fazla içerik için başka kanallar ekleyebilir veya yeni uygulamalar bulabilirsiniz.

11.2

## Android TV Ana Menü Ekranını Açma

Profesyonel Mod AÇIK – lütfen kurulum kılavuzuna başvurun.

Profesyonel Mod KAPALI – Android TV Ana Menü Ekranını ve bir öğeyi açmak için...

1 – Menü'ye basın ve "Philips Koleksiyonu"na gidin, ardından Tamam'a basın.

2 – Ok tuşlarını kullanarak bir etkinlik seçin ve OK tuşuna basarak etkinliği başlatın.

3 – Ana menüyü geçerli etkinliği değiştirmeden kapatmak için ← tuşuna basın.



Android TV Ana Menü Ekranını açarken arka planda oynatılan uygulama/içerik durdurulur. Devam etmek

için Android TV Ana Menü ekranından uygulamayı veya içeriği seçmeniz gerekir.

11.3

## Android TV Ayarları

### Görüntü

#### Görüntü Ayarları

##### Görüntü Tarzı

###### Tarz seçme

🏠 / 🏠 > ⚙️ Ayarlar > Görüntü > Görüntü tarzı öğelerine basın. Görüntüyü kolayca ayarlamak için önceden ayarlanmış bir görüntü tarzı seçebilirsiniz.

- Kişisel – İlk başlatma sırasında ayarladığınız görüntü tercihleri.
- Canlı – Gün ışığında izlemek için idealdir
- Doğal – Doğal görüntü ayarları
- 📺 Standart – En fazla enerji tasarrufu sağlayacak ayar – Fabrika ayarı
- Film – Film izlemek için idealdir
- Oyun – Oyun oynamak için idealdir
- Bilgisayar – Bilgisayara bağlanmak için idealdir

#### Renk, Kontrast, Keskinlik, Parlaklık

##### Görüntü rengini ayarlama

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Renk öğelerine basın. Görüntünün renk doygunluğu değerini ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın.

##### Görüntü kontrastını ayarlama

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Kontrast öğelerine basın. Görüntünün kontrast değerini ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın.

Güç tüketimini düşürmek için kontrast değerini azaltabilirsiniz.

##### Görüntü keskinliğini ayarlama

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Keskinlik öğelerine basın. Görüntünün keskinlik değerini ayarlamak için ▲ ▼

##### Parlaklığı ayarlayın

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Parlaklık öğelerine basın.

Görüntü sinyalinin parlaklık seviyesini ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın.

**Not:** Parlaklığın referans değerden (50) çok uzakta ayarlanması düşük kontrasta neden olabilir.

---

## Gelişmiş Görüntü Ayarları

---

### Renk Ayarları

---

#### Gelişmiş Renk Ayarları

Renk geliştirmeyi ayarlama

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Renk > Renk Geliştirme öğelerine basın.

Renk yoğunluğu seviyesini ve parlak renklerde ayrıntıları ayarlamak için **Maksimum**, **Orta** veya **Minimum** ögesini seçin.

Önceden ayarlanmış renk sıcaklığını seçme

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Renk > Renk Sıcaklığı öğelerine basın.

Renk sıcaklığını tercihinize göre ayarlamak için **Normal**, **Sıcak** veya **Soğuk** ögesini seçin.

Renk sıcaklığını özelleştirme

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş

> Renk > Özel Renk Sıcaklığı öğelerine basın.

Renk sıcaklığını kendiniz özelleştirmek için Renk sıcaklığı menüsünde Özel ögesini seçin. Değeri ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın. WP beyaz noktası ve BL siyah seviyesidir. Ayrıca bu menüde ön ayarlardan birini de seçebilirsiniz.

---

## Gelişmiş Kontrast Ayarları

---

### Kontrast Modları

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Kontrast > Kontrast modu öğelerine basın.

TV'nin otomatik olarak en iyi güç tüketimi veya en iyi görüntü deneyimi için kontrastı azaltacak şekilde ayarlanması amacıyla **Normal**, **Görüntü optimizasyonu** veya **Enerji tasarrufu için optimize edilmiştir** ögesini seçin ya da ayarlamayı kapatmak için **Kapalı**'yı seçin.

---

## Dinamik Kontrast

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Kontrast > Dinamik kontrast öğelerine basın.

TV'nin görüntüdeki karanlık, orta ve aydınlık bölgelerindeki ayrıntıları otomatik olarak geliştireceği seviyeyi ayarlamak için **Maksimum**, **Orta** veya **Minimum**'u seçin.

---

## Video Kontrastı, Gama

Video kontrastı

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Kontrast > Video kontrastı öğelerine basın.

Video kontrastı seviyesini ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın.

Gama

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Kontrast > Gama öğelerine basın.

Görüntü parlaklığı ve kontrast için doğrusal olmayan bir ayar belirlemek için ▲ (yukarı) veya ▼ (aşağı) oklarına basın.

---

## Gelişmiş Keskinlik Ayarları

---

### Ultra Resolution

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Keskinlik > Ultra Çözünürlük öğelerine basın.

Kenarlar ve ayrıntılarda mükemmel keskinlik sağlamak için **Açık**'ı seçin.

---

## Görüntü Temizleme

---

### Gürültü azlt

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Görüntü temizleme > Gürültü azaltma öğelerine basın.

Video içeriğindeki paraziti kaldırma seviyesini ayarlamak için **Maksimum**, **Orta** veya **Minimum** ayarını seçin. Parazit, ekran görüntüsünde genellikle küçük hareketli noktalar biçiminde görülür.

## MPEG Parazit Azaltma

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Gelişmiş > Görüntü temizleme > MPEG Parazit Azaltma öğelerine basın.

Video içeriğindeki dijital parazitleri farklı derecelerde yumuşatmak için Maksimum, Orta veya Minimum ayarını seçin. MPEG dijital parazitleri ekran görüntülerinde genellikle küçük bloklar veya titreyen kenarlar biçiminde görülür.

## Görüntü Formatı

Görüntü tam ekranı doldurmuyorsa üstte veya altta veya her iki tarafta siyah çubuklar görülüorsa görüntüyü ekranı tamamen dolduracak şekilde ayarlayabilirsiniz.

Ekranı dolduracak temel ayarlardan birini seçmek için...

- 1 - Bir TV kanalı izlerken 🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Görüntü > Görüntü Formatı öğelerine basın.
- 2 - Listedeki bir formatı seçin ve **Tamam** tuşuna basın.
- 3 - Gerekirse menüyü kapatmak için **← BACK** tuşuna veya arkaya basın.

Ekrandaki görüntüye göre şu formatlar kullanılabilir ...

- Geniş ekran
- Ekranı doldur
- Ekranı Sığdır
- Ölçeksiz

## Ses

### Ses Tarzı

#### Tarz seçme

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Ses > Ses tarzı öğelerine basın.

Sesi kolayca ayarlamak için ses tarzı ile önceden ayarlanmış bir ayar seçebilirsiniz.

- Kişisel - Görüntü ve sesi kişiselleştir bölümünde yapmış olduğunuz kişisel seçimler
- Orijinal - En doğal ses ayarı
- Film - Film izlemek için idealdir
- Müzik - Müzik dinlemek için idealdir
- Oyun - Oyun oynamak için idealdir
- Haberler - Konuşmalar için idealdir

## Ses Yönetimi

Bir cihaz seçin.

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Ses > Ses Yönetimi öğelerine basın. Ses çıkış cihazlarını yapılandırın.

- TV Hoparlörleri - TV'yi, sesi TV'de veya bağlı ses sisteminde oynatacak şekilde ayarlayın.
- Kulaklık/Banyo hoparlörleri - Açık/Kapalı.
- Kulaklık/Banyo Hoparlörü Sabit Ses Seviyesi - Etkinleştirildiğinde Kulaklık/Banyo ses seviyesi açma ayarına sabitlenir.
- Kulaklık Algılama - Açık/Kapalı.

## TV yerleştirme

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Ses > TV Yerleştirme öğelerine basın.

Ayara göre en iyi ses üretimini elde etmek için TV standı üzerinde veya Duvar'da'yı seçin.

## Gelişmiş

## Eko Ayarları

### Uyku Zamanlayıcısı

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Eko Ayarları > Uyku Zamanlayıcısı öğelerine basın.

TV'yi ön ayarlı süre sonunda otomatik olarak bekleme moduna geçecek şekilde ayarlayın. Bu özelliği devre dışı bırakmak için lütfen zamanlayıcıyı sıfır olarak ayarlayın.

Değeri ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın. 0 değeri (Kapalı) otomatik kapanmayı devre dışı bırakır.

Kapatma zamanlayıcısını seçin, enerji tasarrufu yapmak için TV otomatik olarak kapanır.

\* TV sinyali alıyorsa ancak 4 saat süresince uzaktan kumandada bir tuşa basmazsanız TV kapanır.

\* TV, 10 dakika süresince sinyal ya da uzaktan kumanda komutu almazsa kapanır.

\* TV'yi monitör olarak kullanıyorsanız veya TV izlemek için dijital bir alıcı kullanıyorsanız (Set Üstü Kutu - STB) ve TV'nin uzaktan kumandasını kullanmıyorsanız değeri 0 olarak ayarlamak için bu otomatik kapanma özelliğini devre dışı bırakmanız gerekir.

## Ekran Kapalı

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Eko Ayarları > Ekran Kapalı öğelerine basın.

TV'de yalnızca müzik dinliyorsanız TV ekranını kapatabilirsiniz.

Yalnızca TV ekranı kapanır. Ekranı tekrar açmak için uzaktan kumandadaki herhangi bir tuşa basın.

## Bölge ve Dil

### diller

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Bölge ve Dil > Diller öğelerine basın.

Bölge veya dil ayarını belirleyin.

- Android sistemi/Menü Dili – Menülerin ve mesajların dilini değiştirin.
- Birincil Ses – Yayınlarda ses dili için öncelikli tercihinizi ayarlayın.
- İkincil Ses – Yayınlarda ses dili için sonraki tercihinizi ayarlayın.
- Birincil Altyazı – Yayınlarda altyazı dili için öncelikli tercihinizi ayarlayın.
- İkincil Altyazı – Yayınlarda altyazı dili için sonraki tercihinizi ayarlayın.
- Birincil Metin – Yayınlarda Metin dili için ilk tercihinizi ayarlayın.
- İkincil Metin – Yayınlarda Metin dili için sonraki tercihinizi ayarlayın.

## Evrensel Erişim Ayarları

🏠 🏠 ⚙️ Erişilebilirlik > Evrensel erişim öğelerine basın.

Evrensel Erişim özelliği açıldığında TV, işitme engelli, işitme güçlüğü olan, görme engelli veya görme bozukluğu olan kişilerin kullanımına hazırlanır.

### Evrensel erişim ayarlarını açma

🏠 🏠 ⚙️ Erişilebilirlik > Evrensel erişim > Açık öğelerine basın.

### İşitme engelli kişiler için evrensel erişim

🏠 🏠 ⚙️ Erişilebilirlik > Evrensel erişim > İşitme engelli > Açık öğelerine basın.

- Bazı dijital TV kanalları işitme engelli veya işitme güçlüğü bulunan kişiler için özel uyarlanmış ses ve altyazı yayınlamaktadır.

- Açıldığında TV otomatik olarak uyarlanmış ses ve varsa altyazı seçeneğine geçer.

Görme engelli veya görme bozukluğu olan kişiler için evrensel erişim

🏠 🏠 ⚙️ Erişilebilirlik > Evrensel

erişim > Sesli anlatım > Sesli anlatım > Açık öğelerine basın.

Dijital TV kanalları ekranda olup bitenler hakkında özel bir sesli yorum yayınlayabilir.

⚙️ Ayarlar > Erişilebilirlik > Evrensel erişim > Sesli anlatım > Karışık ses, Ses efektleri, Konuşma.

- Karışık ses'i seçin, normal sesin ses seviyesini sesli yorumla karıştırabilirsiniz. Değeri ayarlamak için ▲ (yukarı) veya ▼ (aşağı) oklarına basın.
- Yorum sesinde stereo veya giderek azalan ses gibi ek ses efektleri için Ses efekti'ni Açık olarak ayarlayın.
- Konuşma tercihinin (Tanımlayıcı veya Altyazı) ayarlamak için Konuşma'yı seçin.

## İçerik Sınıfı

### Sınıflandırma Seviyesi

🏠 🏠 ⚙️

Çocukların yaşlarına uygun olmayan programları izlemelerini önlemek için yaş sınırı ayarlayabilirsiniz. Dijital kanallar programlarına yaş sınırı getirebilir. Bir programın yaş sınırı, çocuğunuz için yaş sınırı olarak ayarladığınız yaşa eşitse veya bu yaştan yüksekse program kilitlenir. Kilitli bir programı izlemek için öncelikle kodu girmeniz gerekir.

### Yaş sınırı belirleme

🏠 🏠 ⚙️

Yaşı seçin ve Tamam'a basın. Yaş sınırını kapatmak için Yok'u seçin. Ancak bazı ülkelerde yaş sınırı ayarlamalısınız.

### Kod Ayarlama ve Kodu Değiştirme

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > İçerik sınıfı öğelerine basın.

Çocuk kilidi kodu kanalları veya programları kilitlemek veya bunların kilidini açmak için kullanılır.

Yeni kod ayarlayabilir veya kod değiştirmeyi sıfırlayabilirsiniz.

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > İçerik sınıfı > Kodu Değiştir öğelerine basın.

Not:

PIN kodunuzu unuttuysanız geçerli kodu 8888 ile geçersiz kılabilir ve yeni bir kod girebilirsiniz.

## Android TV'nizi bağlama

### Ağ ve İnternet

#### Ev Ağı

Philips Android TV'nizin özelliklerinden tam olarak faydalanmak için TV'niz İnternete bağlı olmalıdır.

TV'yi yüksek hızlı bir İnternet bağlantısı ile bir ev ağına bağlayın. TV'nizi kablosuz olarak veya kablo ile ağ yönlendiricinize bağlayabilirsiniz.

#### Ağa Bağlan

#### Kablosuz Bağlantı

#### Gerekenler

TV'yi kablosuz olarak İnternet'e bağlamak için İnternet bağlantısı olan bir Wi-Fi yönlendirici gerekir.

Yüksek hızlı (geniş bant) İnternet bağlantısı kullanın.



#### Bağlantıyı Gerçekleştirin

#### Bağlantıyı Gerçekleştirin - KABLOSUZ

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ağa Bağlan > KABLOSUZ öğelerine basın.

- 1 - Bulunan ağlar listesinde kablosuz ağını seçin. Ağ adı gizlendiğinden ağız listede yer almıyorsa (yönlendiricinin SSID yayını kapatmışsınızdır), ağ adını kendiniz girmek için Yeni Ağ Ekle'yi seçin.
- 2 - Yönlendirici tipine bağlı olarak şifreleme anahtarınızı - WEP, WPA veya WPA2 - girin. Bu ağın şifreleme anahtarını önceden girdiyseniz bağlantıyı hemen kurmak için Tamam öğesini seçebilirsiniz.
- 3 - Bağlantı başarıyla kurulduğunda bir mesaj görüntülenir.

#### Bağlantıyı Gerçekleştirin - WPS

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ağa Bağlan > WPS öğelerine basın.

Yönlendiricinizde WPS varsa ağ taraması yapmadan

doğrudan yönlendiriciye bağlanabilirsiniz. Kablosuz ağızda WEP güvenlik şifreleme sistemi kullanan cihazlarınız varsa WPS kullanamazsınız.

- 1 - Yönlendiriciye gidin, WPS düğmesine basın ve 2 dakika içinde TV'ye dönün.
- 2 - Bağlantıyı kurmak için Bağlan seçeneğini belirleyin.
- 3 - Bağlantı başarıyla kurulduğunda bir mesaj görüntülenir.

#### Bağlantıyı Gerçekleştirin - PIN Kodlu WPS

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ağa Bağlan > PIN KODLU WPS öğelerine basın.

Yönlendiricinizde PIN kodlu WPS varsa ağ taraması yapmadan doğrudan yönlendiriciye bağlanabilirsiniz. Kablosuz ağızda WEP güvenlik şifreleme sistemi kullanan cihazlarınız varsa WPS kullanamazsınız.

- 1 - Ekranda gösterilen 8 basamaklı PIN kodunu yazın ve PC'nizdeki yönlendirici yazılımına girin. PIN kodunun yönlendirici yazılımında nereye girileceğini öğrenmek için yönlendirici kullanım kılavuzuna bakın.
- 2 - Bağlantıyı kurmak için Bağlan seçeneğini belirleyin.
- 3 - Bağlantı başarıyla kurulduğunda bir mesaj görüntülenir.

#### Problemler

#### Kablosuz ağ bulunamadı veya bozuk

- Yakınızda bulunan mikrodalga fırınlar, DECT telefonlar veya diğer Wi-Fi 802.11b/g/n/ac cihazları kablosuz ağı bozabilir.
- Ağızda güvenlik duvarlarının TV'nin kablosuz bağlantısına erişime izin verdiğinden emin olun.
- Kablosuz ağ evinizde düzgün çalışmıyorsa kablolu ağ kurmayı deneyin.

#### İnternet çalışmıyor

- Yönlendirici bağlantısında sorun yoksa yönlendiricinin İnternet bağlantısını kontrol edin.

#### PC ve İnternet bağlantısı yavaş

- İç mekanlardaki kapsama alanı, aktarım hızı ve sinyal kalitesi ile ilgili diğer faktörler hakkında bilgi edinmek için kablosuz yönlendiricinin kullanım kılavuzuna bakın.
- Yönlendiriciniz için yüksek hızlı (geniş bant) İnternet bağlantısı kullanın.

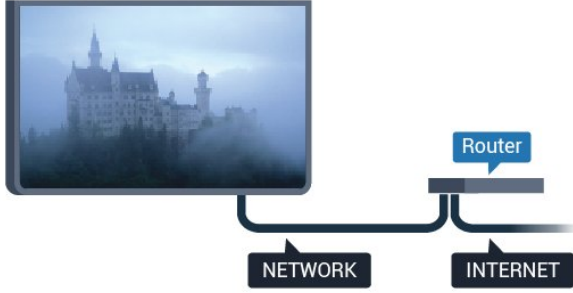
#### DHCP

- Bağlantı kurulamazsa yönlendiricinin DHCP (Dinamik Bilgisayar Yapılandırma Protokolü) ayarını kontrol edebilirsiniz. DHCP açılmalıdır.

## Kablolu Bağlantı

### Gerekenler

TV'yi Internet'e bağlamak için Internet bağlantısı olan bir ağ yönlendiricisi gerekir. Yüksek hızlı (geniş bant) Internet bağlantısı kullanın.



### Bağlantıyı Gerçekleştirin

#### Bağlantıyı Gerçekleştirin - KABLOLU

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ağa Bağlan > KABLOLU öğelerine basın.

- 1 - Yönlendiriciyi bir ağ kablosuyla (Ethernet kablosu\*\*) TV'ye bağlayın.
- 2 - Yönlendiricinin açık olduğundan emin olun.
- 3 - TV sürekli olarak ağ bağlantısı arar.
- 4 - Bağlantı başarıyla kurulduğunda bir mesaj görüntülenir.

Bağlantı kurulamazsa yönlendiricinin DHCP ayarını kontrol edebilirsiniz. DHCP açılmalıdır.

\*\*EMC kurallarına uygunluk için blendajlı FTP Cat. 5E Ethernet kablosu kullanın.

## Ayarlar

### Ağ Ayarlarını Görüntüle

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ayarlar > Ağ Ayarlarını Görüntüle öğelerine basın.

Tüm geçerli ağ ayarlarını burada görüntüleyebilirsiniz. IP ve MAC adresi, sinyal gücü, hız, şifreleme yöntemi vb.

#### Ağ Yapılandırma - DHCP/Statik IP

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ayarlar > Ağ Yapılandırma > DHCP / Statik IP öğelerine basın.

DHCP'yi seçin. Gelişmiş kullanıcıysanız ağınıza statik IP adreslemeyle kurabilirsiniz.

#### Ağ Yapılandırma - Statik IP Yapılandırması

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve

Ağlar > Ayarlar > Statik IP Yapılandırması öğelerine basın.

1 - Statik IP Yapılandırması öğesini seçin ve bağlantıyı yapılandırın.

2 - IP Adresi, Ağ maskesi, Ağ geçidi, DNS 1 veya DNS 2 numaralarını ayarlayabilirsiniz.

#### LAN Üzerinden Uyandırma (WoL)

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ayarlar > LAN Üzerinden Uyandırma (WoL) öğelerine basın.

LAN Üzerinden Uyandırma'yı (WoL) devre dışı bırakın/etkinleştirin. Aynı LAN üzerinden harici bir cihaz kullanarak TV'yi uyandırabilirsiniz.

#### Wi-Fi Üzerinden Uyandırma (WoWLAN)

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ayarlar > Wi-Fi Üzerinden Uyandırma (WoWLAN) öğelerine basın.

Wi-Fi Üzerinden Uyandırma'yı (WoWLAN) devre dışı bırakın/etkinleştirin. Aynı Wi-Fi üzerinden harici bir cihaz kullanarak TV'yi uyandırabilirsiniz.

### Ağ Türü

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > 📶 Kablosuz ve Ağlar > Ayarlar > Ağ Türü öğelerine basın.

- Kablolu - Kablolu bir ağa bağlanma.
- Kablosuz - Bulunan ağlar listesinde kablosuz ağınıza seçin. Ağ adı gizlendiğinden ağınıza listede yer almıyorsa (yönlendiricinin SSID yayını kapattıysanız) ağ adını kendiniz girmek için Yeni Ağ Ekle'yi seçin.
- WPS - Yönlendiricinizde WPS varsa ağ taraması yapmadan doğrudan yönlendiriciye bağlanabilirsiniz. Kablosuz ağınıza WEP güvenlik şifreleme sistemi kullanan cihazlarınız varsa WPS kullanamazsınız.
- PIN kodlu WPS - Yönlendiricinizde PIN kodlu WPS varsa ağ taraması yapmadan doğrudan yönlendiriciye bağlanabilirsiniz. Kablosuz ağınıza WEP güvenlik şifreleme sistemi kullanan cihazlarınız varsa WPS kullanamazsınız.

## Google Hesabı

### Oturum Aç

Philips Android TV'nizin özelliklerinden tam olarak faydalanmak için Google Hesabınız ile Google'da oturum açabilirsiniz.

Oturum açarak favori oyunlarınızı telefon, tablet ve TV'de oynayabilirsiniz. Ayrıca, TV giriş ekranınızda özelleştirilmiş video ve müzik önerileri ile YouTube, Google Play ve diğer uygulamalara erişim elde edersiniz.

TV'nizde Google'da oturum açmak için var olan Google Hesabınızı kullanın. Bir Google Hesabı, e-



posta adresi ile paroladan oluşur. Henüz Google Hesabınız yoksa oluşturmak için bilgisayarınızı veya tabletinizi kullanın (accounts.google.com). Google Play ile oyun oynamak için bir Google+ profiliniz olmalıdır. İlk TV kurulumu sırasında oturum açmadıysanız daha sonra oturum açabilirsiniz.

### Oturum Aç

🏠 Ana Menü > 📱 Uygulamalar > Google Play öğelerine basın.

Ekran klavyesiyle e-posta adresinizi ve parolanızı girin, oturum açmak için aynı **Tamam** tuşuna basın.

### Android Ayarları

Birkaç Android ayarını veya bilgisini ayarlayabilir ya da görüntüleyebilirsiniz. TV'nizde yüklü uygulamaların listesini ve bunlar için gereken depolama alanını bulabilirsiniz. Sesli Arama ile kullanmak istediğiniz dili ayarlayabilirsiniz. Uygulamaların konumunuzu kullanmasına izin vermek için ekran klavyesini yapılandırabilirsiniz. Farklı Android ayarlarını keşfedin. Bu ayarlar hakkında daha fazla bilgi için [www.support.google.com/androidtv](http://www.support.google.com/androidtv) adresine gidebilirsiniz.

### Bu ayarları açmak için

🏠 / 🏠 Ana Menü > ⚙️ Ayarlar > Ayarlar > Android Ayarları öğelerine basın.

11.5

## Kanallar

### Kanal Listeleri

#### Kanal Listeleri Hakkında

Kanal kurulumundan sonra tüm kanallar kanal listesinde görünür. Kanallar, bu bilgiler mevcutsa adları ve logolarıyla birlikte gösterilir.

Bir kanal listesi seçiliyken ▲ (yukarı) veya ▼ (aşağı) oklarına basarak bir kanal seçin, ardından seçtiğiniz kanalı izlemek için **Tamam** tuşuna basın. Bu listedeki kanalları yalnızca ≡ + veya ≡ - tuşlarını kullanarak açarsınız.

#### Radyo istasyonları

Dijital yayın varsa kurulum sırasında dijital radyo istasyonları kurulur. Radyo kanallarına tıpkı TV kanallarında olduğu gibi geçebilirsiniz.

### Kanal Listesini Açma

Geçerli kanal listesini açmak için...

1. TV'ye geçiş yapmak için **TV** öğesine basın.
2. Geçerli kanal listesini açmak için ≡ öğesine basın.
3. Kanal listesini kapatmak için ≡ öğesine tekrar basın.

## Kanalları izleme

### Bir Kanalı Açma

TV kanallarını izlemeye başlamak için **TV** öğesine basın. TV, en son izlediğiniz kanala geçer.

### Kanal değiştirme

- Kanal değiştirmek için ≡ + veya ≡ - öğesine basın.

### Önceki kanal

- Önceden izlenen kanala geri dönmek için ← BACK tuşuna basın.

### Kanal listesi

Bir TV kanalını izlerken kanal listesini açmak için ≡ öğesine basın.

### Kanal, Seçenekler

#### Seçenekleri Açın

#### Ortak Arayüz

Ortak Arayüz yuvalarından birine bir CAM taktıysanız CAM ve operatör bilgilerini görüntüleyebilir veya CAM ile ilgili bazı ayarları yapabilirsiniz.

CAM bilgilerini görüntülemek için...

- 1 - Kanala gidin ve + **OPTIONS** öğesine basın.
- 2 - **Ortak Arayüz**'ü seçin.
- 3 - Uygun bir Ortak Arayüz yuvasını seçin ve ► (sağ) tuşuna basın.
- 4 - CAM'nin TV operatörünü seçip **OK** tuşuna basın. Aşağıdaki ekranlar TV operatöründen gelir.

### Altyazılar

#### Altyazı Dili

## Tercih Edilen Altyazı Dilleri

Dijital bir yayın, bir program için birkaç altyazı dili sunabilir. Tercih ettiğiniz birincil ve ikincil altyazı dilini ayarlayabilirsiniz. Bu dillerden birinde altyazı varsa TV seçtiğiniz altyazıları gösterir.

Birincil ve ikincil altyazı dilini ayarlamak için...

- 1 - / Ana Menü'ye basın. (aşağı) tuşuna basın, **Ayarlar**'ı seçin ve **Tamam** tuşuna basın.
- 2 - Bölge ve Dil > Diller > Birincil Altyazı ya da İkincil Altyazı öğelerini seçin.

- 3 - İstedığınız dili belirleyin ve **Tamam** tuşuna basın.
- 4 - Bir adım geri gitmek için (sol) tuşuna veya menüyü kapatmak için **BACK** tuşuna basın.

## Altyazı Dili Seçme

Tercih ettiğiniz altyazı dillerinden hiçbiri yoksa olanlar arasından başka bir altyazı dili seçebilirsiniz. Altyazı dili mevcut değilse bu seçeneği belirleyemezsiniz.

Tercih ettiğiniz dillerden hiçbiri mevcut olmadığında bir altyazı dili seçmek için...

- 1 - **OPTIONS** tuşuna basın.
- 2 - **Altyazı Dili** öğesini seçin ve geçici olarak dillerden birini altyazı olarak belirleyin.

## Ses Dili

### Tercih Edilen Ses Dili

Dijital bir yayın, bir program için birkaç ses dili (konuşulan dil) sunabilir. Tercih ettiğiniz birinci ve ikinci ses dillerini ayarlayabilirsiniz. Bu dillerden birinde ses varsa TV bu ses diline geçecektir.

Birincil ve ikincil ses dilini ayarlamak için...

- 1 - / Ana Menü'ye basın. (aşağı) tuşuna basın, **Ayarlar**'ı seçin ve **OK** tuşuna basın.
- 2 - Bölge ve Dil öğesini ve ardından Diller > Birincil Ses ya da İkincil Ses öğelerini seçin.

- 3 - İsteddiğiniz dili belirleyin ve **Tamam** tuşuna basın.
- 4 - Bir adım geri gitmek için (sol) tuşuna veya menüyü kapatmak için **BACK** tuşuna basın.

## Ses Dili Seçme

Tercih ettiğiniz ses dillerinden hiçbiri yoksa olanlar arasından başka bir ses dili seçebilirsiniz. Ses dili mevcut değilse bu seçeneği belirleyemezsiniz.

Tercih ettiğiniz ses dillerinden hiçbiri yoksa bir ses dili seçmek için...

- 1 - **OPTIONS**'a basın.

- 2 - **Ses Dili** öğesini seçin ve geçici olarak dillerden birini ses olarak belirleyin.

## Kanal Bilgisi

### Kanal ayrıntılarını görüntüleme

Seçilen kanalın ayrıntılarını görüntülemek için...

- 1 - Kanalı açın.
- 2 - **OPTIONS** öğesine basın, **Kanal Bilgileri** öğesini seçin ve **Tamam**'a basın.
- 3 - Bu ekranı kapatmak için **OK** tuşuna basın.

## Mono / Stereo

Bir analog kanalın sesini Mono veya Stereo olarak değiştirebilirsiniz.

Mono veya Stereo'ya geçiş yapmak için...

- 1 - Bir analog kanala gidin.
- 2 - **OPTIONS** tuşuna basın, **Mono/Stereo** öğesini seçin ve (sağ) tuşuna basın.
- 3 - **Mono** veya **Stereo**'yu seçin ve **OK** tuşuna basın.
- 4 - Bir adım geri gitmek için (sol) tuşuna veya menüyü kapatmak için **BACK** tuşuna basın.

## Program Bilgileri

### Program ayrıntılarını görüntüleme

Seçilen programın ayrıntılarını görüntülemek için...

- 1 - Kanalı açın.
- 2 - **OPTIONS** tuşuna basın, **Program Bilgileri** öğesini seçin ve **Tamam**'a basın.
- 3 - Bu ekranı kapatmak için **OK** tuşuna basın.

11.6

## Kanal Kurulumu

### Kanal Kurma

### Anten/Kablo Kurulumu

### Kanal Arama

Tüm kanalları, diğer TV ayarlarına dokunmadan yeniden ayarlayabilirsiniz.

Bir PIN kodu ayarlanmışsa kanalları yeniden kurabilmek için önce bu kodu girmeniz gerekir.

Kanal Aramak için...

- 1 - / Ana Menü > **Ayarlar** > Kanalları kur öğelerine basın ve **OK** tuşuna basın.
- 2 - **RF Kanal Kurulumu** öğesini seçin ve **Tamam**'a basın.

3 - Gerektiğinde PIN kodunuzu girin.  
Kanal Ara'yı seçin ve **Tamam** tuşuna basın.  
Başlat seçeneğini belirleyin ve **Tamam** tuşuna basın.  
Şu anda bulunduğunuz ülkeyi seçin ve **Tamam** tuşuna basın.  
Başlat seçeneğini belirleyin ve **Tamam** tuşuna basın.  
İstedığınız kurulum türünü seçin (**Anten (DVB-T)** veya **Kablo (DVB-C)**) ve **Tamam** tuşuna basın.  
Sonraki seçeneğini belirleyin ve **Tamam** tuşuna basın.  
İstedığınız kanal türünü seçin ( **Dijital ve Analog Kanallar** veya **Sadece Dijital Kanallar**) ve **Tamam** tuşuna basın.  
Sonraki seçeneğini belirleyin ve **Tamam** tuşuna basın.  
Dijital kanalları güncellemek için **Başlat** 'ı seçip **Tamam** tuşuna basın. Bu işlem birkaç dakika sürebilir.  
Bir adım geri gitmek için **◀** (sol) tuşuna veya menüyü kapatmak için **←** BACK tuşuna basın.

---

### Otomatik Kanal Güncelleme

Dijital kanallar alıyorsanız TV'yi bu yeni kanalları otomatik olarak güncelleyecek şekilde ayarlayabilirsiniz.

TV, günde bir kez, sabah saat 6'da kanalları günceller ve yeni kanalları kaydeder. Yeni kanallar Kanal Listesi'ne kaydedilir ve **★** işareti ile işaretlenir. Sinyal alınamayan kanallar kaldırılır. TV, kanalları otomatik güncellemek için bekleme modunda olmalıdır. Otomatik Kanal Güncellemeyi kapatabilirsiniz.

Otomatik güncellemeyi kapatmak için...

1 - **🏠 / 📺** Ana Menü > **⚙️** Ayarlar > Kanalları kur öğelerine basın ve **OK** tuşuna basın.  
2 - **RF Kanal Kurulumu** öğesini seçin ve **Tamam'a** basın.  
3 - Gerektiğinde PIN kodunuzu girin.  
4 - **Otomatik Kanal Güncelleme**'yi seçin ve **Tamam** tuşuna basın  
5 - **Kapalı** seçeneğini belirleyin ve **Tamam** tuşuna basın.  
6 - Bir adım geri gitmek için **◀** (sol) tuşuna veya menüyü kapatmak için **←** BACK tuşuna basın.

---

### Kanal Güncelleme Mesajı

Yeni kanallar bulunduğunda veya kanallar güncellendiğinde veya kaldırıldığında TV açılışında bir mesaj gösterilir. Bu mesajın her kanal güncellemesinden sonra görüntülenmesini önlemek için kapatabilirsiniz.

Mesajı kapatmak için...

1 - **🏠 / 📺** Ana Menü > **⚙️** Ayarlar > Kanalları kur öğelerine basın ve **OK** tuşuna basın.  
2 - **RF Kanal Kurulumu** öğesini seçin ve **Tamam'a** basın.  
3 - Gerektiğinde PIN kodunuzu girin.  
4 - **Otomatik Kanal Güncelleme**'yi seçin ve **Tamam** tuşuna basın  
5 - **Kapalı** seçeneğini belirleyin ve **Tamam** tuşuna basın.  
6 - Bir adım geri gitmek için **◀** (sol) tuşuna veya menüyü kapatmak için **←** BACK tuşuna basın.

Belirli ülkelerde Otomatik kanal güncelleme TV izlenirken veya TV'nin bekleme modunda olduğu herhangi bir zamanda yapılır.

---

### Dijital: Manuel Kurulum

Dijital TV kanalları, tek tek manuel olarak kurulabilir.

Dijital kanalları manuel olarak kurmak için...

1 - **🏠 / 📺** Ana Menü > **⚙️** Ayarlar > Kanalları kur öğelerine basın ve **OK** tuşuna basın.  
2 - **RF Kanal Kurulumu** öğesini seçin ve **Tamam'a** basın.  
3 - **Dijital: Manuel Kurulum'u** seçin ve **Tamam** tuşuna basın.  
4 - **Arama'yı** seçin ve **Tamam** tuşuna basın. Bir kanal bulmak için kendiniz frekans girebilir veya TV'nin kanal aramasına izin verebilirsiniz. **▶** (sağ) tuşuna basarak **Arama'yı** seçin ve otomatik olarak kanal aramak üzere **Tamam** tuşuna basın. Bulunan kanal ekranda gösterilir; alım kötü ise tekrar **Arama** tuşuna basın. Kanalı kaydetmek istiyorsanız **Bitti**'yi seçin ve **Tamam** tuşuna basın.

---

### Analog: Manuel Kurulum

Analog TV kanalları, tek tek manuel olarak kurulabilir.

Analog kanalları manuel olarak kurmak için...

1 - **🏠 / 📺** Ana Menü > **⚙️** Ayarlar > Kanalları kur öğelerine basın ve **OK** tuşuna basın.  
2 - **RF Kanal Kurulumu** öğesini seçin ve **Tamam'a** basın.  
3 - **Analog: Manuel Kurulum'u** seçin ve **Tamam** tuşuna basın.

#### • Sistem

TV sistemini kurmak için **Sistem** öğesini seçin. Ülkenizi veya dünya üzerindeki konumunuzu seçin ve **OK** tuşuna basın.

#### • Kanal Ara

Bir kanal bulmak için **Kanal Ara'yı** seçip **OK** tuşuna basın. Bir kanal bulmak için kendiniz frekans girebilir veya TV'nin kanal aramasına izin verebilirsiniz. **▶** (sağ) tuşuna basarak **Arama'yı** seçin ve otomatik olarak kanal aramak üzere **Tamam** tuşuna basın. Bulunan kanal ekranda gösterilir; alım kötü ise

tekrar **Arama** tuşuna basın. Kanalı kaydetmek istiyorsanız **Bitti**'yi seçin ve **Tamam** tuşuna basın.

#### • Kaydet

Kanalı, geçerli kanal numarasına veya yeni bir kanal numarası olarak kaydedebilirsiniz.

**Geçerli Kanalı Kaydet** veya **Yeni Kanal Olarak Kaydet**'i seçin ve **OK** tuşuna basın. Yeni kanal numarası kısa bir süre için görüntülenir.

Tüm analog TV kanallarını bulana kadar bu adımları tekrarlayabilirsiniz.

11.7

## Internet

### İnterneti Başlatma

TV'niz ile İnternete göz atabilirsiniz. Tüm İnternet web sitelerini açabilirsiniz, ancak bunların çoğu TV ekranı için hazırlanmamıştır.

- TV'nizde bazı eklentiler (örneğin sayfaları veya videoları görüntülemek için kullanılanlar) mevcut değildir.
- Dosya gönderemez veya indiremezsiniz.
- İnternet sayfaları bir seferde tek sayfa ve tam ekran olacak biçimde gösterilir.

İnternet tarayıcısını başlatmak için...

- 1 - / **HOME** tuşuna basın.
- 2 - Aşağıya kaydırıp **Uygulamalar** > **İnternet** öğelerini seçin ve **Tamam**'a basın.
- 3 - Bir İnternet adresi girip öğesini seçin, **OK** tuşuna basın.
- 4 - İnterneti kapatmak için / **HOME** veya tuşuna basın.

### İnternet Seçenekleri

İnternet için bazı ek özellikler mevcuttur.

Ek özellikleri açmak için...

- 1 - Web sitesi açıkken **OPTIONS**'a basın.
- 2 - Öğelerden birini seçip **OK** tuşuna basın.
- Hızlı aramaya ekleyin: Yeni bir İnternet adresi girmek için.
- Yer imlerine ekleme: Sayfayı yer imi olarak ekleme
- Sayfa güvenliği: Geçerli sayfanın güvenlik düzeyini görüntülemek için.
- Yeni özel sekme: Yeni özel sekmeyi açın ve özel göz atmaya sahip olun
- Ayarlar: Zoom, Metin Boyutu, Erişilebilirlik modu, Menü çubuğunu her zaman göster ve geçmişi (göz atma) temizle ayarları
- Yardım: İnternet tarayıcısı bilgileri
- İnternet tarayıcısından çıkın: İnternet tarayıcısını

kapatma

11.8

## Akıllı Telefonlar ve Tabletler

11.9

## Yazılım

### Yazılımı Güncelle

#### Yazılım Sürümü

Geçerli TV yazılımı sürümünü görüntülemek için...

- 1 - / tuşuna basın, **Ayarlar**'ı seçin ve **OK** tuşuna basın.
- 2 - **Yazılımı Güncelle** > **Geçerli Yazılım** öğelerini seçin ve **Tamam**'a basın.
- 3 - Sürüm, sürüm notları ve oluşturma tarihi gösterilir.
- 4 - Gerekirse (sol) tuşuna art arda basarak menüyü kapatın.

#### Web sitesinden güncelleme

TV'nizin güncel cihaz yazılımı sürümünü ayarlar menüsündeki "Yazılımı Güncelle" > "Geçerli yazılım" bölümünde bulabilirsiniz.

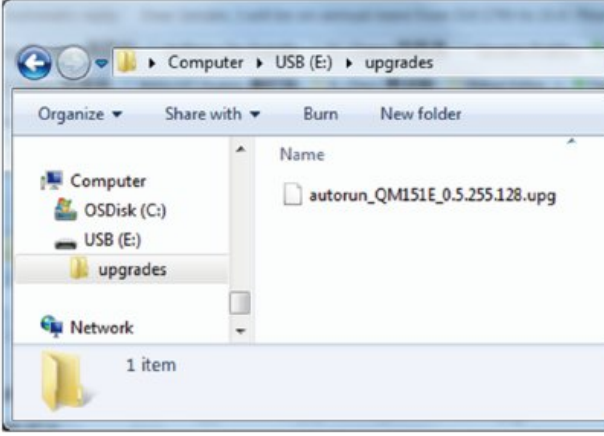
Yeni Cihaz Yazılımı güncellemeleri için [www.philips.com/support](http://www.philips.com/support) adresini düzenli olarak kontrol edin.

TV'nizin cihaz yazılımını güncellemek için aşağıdaki talimatları izleyin.

En yeni yazılımı indirme...

- 1 - İnternet Explorer'ı başlatın.
- 2 - <http://www.philips.com/support> URL'sinden Philips destek sitesine girin.
- 3 - Model numarasını girin. (Model numaranızı TV'nizin arkasındaki etikette bulabilirsiniz. )
- 4 - TV'nizin ürün sayfasına girdiğinizde Destek öğesini seçin.
- 5 - "Yazılım güncellemeleri" seçeneğini belirleyin ve yazılımı indirmek için "Dosyayı indir" öğesine tıklayın. (Yazılım .zip dosyası olarak mevcuttur.)
- 6 - Yazılım sürümü TV'nizde yüklü olan sürümden daha yüksekse yazılım indirme bağlantısına tıklayın.
- 7 - Lisans sözleşmesini/Hüküm ve Koşulları kabul edin ve "Kabul ediyorum" seçeneğini belirleyin. Ardından zip dosyası otomatik olarak indirilir.
- 8 - Bir arşiv yardımcı programı kullanarak zip dosyasını herhangi bir dizine açın.
- 9 - USB flash sürücünüzün ana dizininde "yükseltmeler" adlı bir klasör oluşturun.
- 10 - Aşağıdaki görüntüde gösterilen şekilde daha önce yükseltmeler klasörüne çıkardığınız upg dosyasını kopyalayın.

11 - USB flash sürücünüzü bilgisayardan çıkarın.



Yazılımı güncelleme...

- 1 - USB flash sürücünüzü (yazılım güncellemesini içeren) TV'nin USB konektörüne bağlayın. 30 saniye veya USB sürücüsü TV tarafından tanınana kadar bekleyin.
- 2 - TV'niz yazılımı otomatik olarak yüklemeye başlar.
- 3 - Yazılımın yüklenmesi tamamlandığında TV'nin yükseltilmesini etkinleştirmek için "Başlat" ögesine basın.

# Açık Kaynaklı Yazılım

## Açık Kaynaklı Lisans

### Açık Kaynak Lisansı Hakkında

Açık kaynak lisansı kapsamında bulunan TP Vision Netherlands B.V. TV yazılımı bölümlerinin kaynak kodu için README.

Bu belgede, GNU Genel Kamu Lisansı (GPL) veya GNU Kısıtlı Genel Kamu Lisansı (LGPL) veya başka bir açık kaynak lisansı kapsamında bulunan, TP Vision Netherlands B.V. TV'de kullanılan açık kaynak kodunun dağıtımı açıklanmaktadır. Bu yazılım kopyalarının elde edilmesine yönelik talimatlar Kullanım Talimatları'nda bulunmaktadır.

TP Vision Netherlands B.V., BU YAZILIM HAKKINDA, SATILABİLİRLİĞİYLE VEYA BELİRLİ BİR AMACA UYGUNLUĞUYLA İLGİLİ GARANTİLER DE DAHİL OLMAK ÜZERE HİÇBİR AÇIK YA DA ZİMNİ GARANTİDE BULUNMAZ. TP Vision Netherlands B.V., bu yazılım için hiçbir destek sunmamaktadır. Yukarıda belirtilen bilgiler, satın aldığınız herhangi bir TP Vision Netherlands B.V. ürünüle ilgili garantilerinizi veya yasal haklarınızı etkilemez. Yalnızca kullanımınıza sunulan bu kaynak kodu için geçerlidir.

### Open Source

#### Android (9.0.0)

This tv contains the Android Pie Software. Android is a Linux-based operating system designed primarily for touchscreen mobile devices such as smartphones and tablet computers. This software will also be reused in TPVision Android based TV's. The original download site for this software is : <https://android.googlesource.com/> This piece of software is made available under the terms and conditions of the Apache license version 2, which can be found below. Android APACHE License Version 2 (<http://source.android.com/source/licenses.html>) This includes all external sources used by official Android AOSP.

#### linux kernel (4.9)

This tv contains the Linux Kernel. The original download site for this software is : <http://www.kernel.org/>. This piece of software is made available under the terms and conditions of the GPL v2 license, which can be found below. Additionally, following exception applies : "NOTE! This copyright

does \*not\* cover user programs that use kernel services by normal system calls - this is merely considered normal use of the kernel, and does \*not\* fall under the heading of "derived work". Also note that the GPL below is copyrighted by the Free Software Foundation, but the instance of code that it refers to (the linux kernel) is copyrighted by me and others who actually wrote it. Also note that the only valid version of the GPL as far as the kernel is concerned is \_this\_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated. Linus Torvalds"

#### mbed TLS (2.6.0)

Cryptographic and SSL/TLS capabilities used in Hue Streaming feature. The original download site for this software is : <https://tls.mbed.org/>. This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### aacenc (3.3.3)

Encoder AAC Bitstream. The original download site for this software is : <http://c-ares.haxx.se/>. This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### alsa (1.0.24.1)

Advanced Linux Sound Architecture (ALSA). The original download site for this software is : <http://www.alsa-project.org>. This piece of software is made available under the terms and conditions of the LGPL 2.0.1, which can be found below.

#### appweb (4.3.5)

The original download site for this software is : <http://www.appwebserver.org/>. This piece of software is made available under the terms and conditions of the GPL 2.0, which can be found below.

#### atf (1.3)

Arm-Trusted-Firmware. The original download site for this software is : <https://github.com/ARM-software/arm-trusted-firmware>. This piece of software is made available under the terms and conditions of the BSD, which can be found below.

#### bash (3.2.48)

The shell, or command language interpreter. The original download site for this software is : <http://www.gnu.org/software/bash/>. This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### bluetooth\_mw (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt>. This piece of software is made available under

the terms and conditions of the Apache 2.0 license, which can be found below.

#### bluetooth\_stack (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> .This piece of software is made available under the terms and conditions of the Apache 2.0 license, which can be found below.

#### bluetooth\_tool (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> .This piece of software is made available under the terms and conditions of the Apache 2.0 license, which can be found below.

#### boost (1.15.0)

Mainly use for encfs. The original download site for this software is : <http://www.boost.org/> .This piece of software is made available under the terms and conditions of the Boost Software License - Version 1.0, which can be found below.

#### busybox (1.15.3)

BusyBox combines tiny versions of many common UNIX utilities into a single small executable. The original download site for this software is : <http://www.busybox.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### c-ares (1.12.0)

c-ares is a C library that performs DNS requests and name resolves asynchronously. The original download site for this software is : <http://c-ares.haxx.se/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### cJSON (1.7.7)

The original download site for this software is : <http://sourceforge.net/projects/cjson> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### coreutils (6.9)

Command like cp dd cat chroot. The original download site for this software is : <http://www.gnu.org/software/coreutils/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### libcurl (7.59.0)

libcurl is a free and easy-to-use client-side URL transfer library, supporting DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMTP,

SMTPS, Telnet and TFTP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos), file transfer resume, http proxy tunneling and more!The original download site for this software is : <http://curl.haxx.se/libcurl/COPYRIGHT> AND PERMISSION NOTICECopyright (c) 1996 - 2010, Daniel Stenberg, [daniel@haxx.se](mailto:daniel@haxx.se).All rights reserved.Permission to use, copy, modify, and distribute this software for any purposewith or without fee is hereby granted, provided that the above copyrightnotice and this permission notice appear in all copies.THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. INNO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.Except as contained in this notice, the name of a copyright holder shall notbe used in advertising or otherwise to promote the sale, use or other dealingsin this Software without prior written authorization of the copyright holder.

#### dfb (1.5.3)

The original download site for this software is : <http://www.directfb.org> .This piece of software is made available under the terms and conditions of the LGPL 2.0 license, which can be found below.

#### dibbler (1.0.1)

Dibbler is for implement dhcpv6 client. The original download site for this software is : <http://klub.com.pl/dhcpv6/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### dosfstools (2.9)

Create an MS-DOS file system under Linux. The original download site for this software is : <http://daniel-baumann.ch/files/software/dosfstools> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### e2fsprogs (1.41.14)

The original download site for this software is : <http://e2fsprogs.sourceforge.net> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### electric-fence (2.1.13)

Used for memory corruption detection. The original download site for this software is : [http://perens.com/FreeSoftware/ElectricFence/electric-fence\\_2.1.13-0.1.tar.gz](http://perens.com/FreeSoftware/ElectricFence/electric-fence_2.1.13-0.1.tar.gz) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### encfs (1.3.2)

Use to encrypt file or dir. The original download site for this software is : <http://www.arg0.net/encfs> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### expat (2.1.0)

Xml paser; Expat is an XML parser library written in C. It is a stream-oriented parser in which an application registers handlers for things the parser might find in the XML document (like start tags). An introductory article on using .The original download site for this software is : <http://expat.sourceforge.net/> .

#### findutils (4.2.31)

The original download site for this software is : <http://www.gnu.org/software/findutils/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### freetype (2.7.1)

FreeType 2 is a software font engine that is designed to be small, efficient, highly customizable, and portable while capable of producing high-quality output (glyph images). The original download site for this software is : <http://freetype.sourceforge.net> .

#### fuse (2.8.4)

Fuse is a simple interface for userspace programs to export a virtual filesystem to the linux kernel. The original download site for this software is : <http://sourceforge.net/projects/fuse> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2 license, which can be found below.

#### fusion (8.7.0)

The original download site for this software is : <https://www.openhub.net/p/linuxfusion> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### gawk (3.1.5)

The original download site for this software is : <http://www.gnu.org/software/gawk/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### gdisk (0.8.1)

The original download site for this software is : <http://www.rodsbooks.com/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### glibc (2.18)

The original download site for this software is : <http://www.gnu.org/software/libc> .This piece of software is made available under the terms and conditions of the LGPL 2.0.1 license, which can be found below.

#### googletest (1.7.0)

The original download site for this software is : <https://github.com/google/googletest> .This piece of software is made available under the terms and conditions of the BSD-3 license, which can be found below.

#### grep (2.5.1a)

The original download site for this software is : <http://www.gnu.org/software/grep/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### gzip (1.3.12)

The original download site for this software is : <http://www.gnu.org/software/gzip/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### harfbuzz (1.4.2)

Libpng, a text shaping library. The original download site for this software is : <http://harfbuzz.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### icu (51.1)

ICU is a mature, widely used set of C/C++ and Java libraries providing Unicode and Globalization support for software applications. The original download site for this software is : <http://site.icu-project.org> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### inetutils (1.4.2)

The original download site for this software is : <http://www.gnu.org/software/inetutils/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### iptables (1.4.15)

Iptables is a user space application program that allows a system administrator to configure the tables provided by the Linux kernel firewall (implemented as



different Netfilter modules) and the chains and rules it stores. Different kernel modules and programs are currently used for different protocols; iptables applies to IPv4. The original download site for this software is : <https://android.googlesource.com/> .This piece of software is made available under the terms and conditions of the GPL 2.0.

#### iputils (s20101006)

Set of small useful utilities for Linux networking. The original download site for this software is : <http://www.skbuff.net/iputils/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### jansson (2.4)

set of small useful utilities for Linux networking. The original download site for this software is : <http://www.digip.org/jansson/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### jpeg (6b)

The 'libjpeg' library used for jpeg image decode. The original download site for this software is : <http://www.ijg.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### jsonrpc (2.0)

Jsonrpc implements the parsing and validation of the jsonrpc/2.0 request before handing it over to user-defined methods. The original download site for this software is : <https://github.com/pijyoi/jsonrpc> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### libdwarf

Libdwarf is a library and a set of command-line tools for reading and writing DWARF2 and later debugging information. Libdwarf handles the details of the actual format so coders can focus on the content. The original download site for this software is : <https://sourceforge.net/projects/libdwarf/> .This piece of software is made available under the terms and conditions of the LGPL v2.1 license, which can be found below.

#### libelf (0.8.1.3)

The original download site for this software is : <http://www.mr511.de/software/> .This piece of software is made available under the terms and conditions of the LGPL v2 license, which can be found below.

#### libiconv (1.11.1)

GNU libiconv is a conversion library. To convert between a given text encoding and the users encoding, or to convert between internal string

representation (Unicode) and external stringrepresentation (a traditional encoding). The original download site for this software is : <http://www.gnu.org/software/libiconv> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### libnl (v3.2.29)

The original download site for this software is : <http://www.infradead.org/~tgr/libnl/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### libusb (1.0.9)

The original download site for this software is : <http://libusb.sourceforge.net/> .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### libuv (libuv-v1.20.3)

The original download site for this software is : <https://libuv.org> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### libwebsockets (3.0)

The original download site for this software is : <https://libwebsockets.org/> .This piece of software is made available under the terms and conditions of the LGPL 2.1 license, which can be found below.

#### libxml2 (2.7.8)

Libxml2 is the XML C parser and toolkit developed for the Gnome project. The original download site for this software is : <http://www.xmlsoft.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### lighttpd (1.4.35)

The original download site for this software is : <http://www.lighttpd.net/download/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### liveMedia (2011.06.12)

The original download site for this software is : <http://www.live555.com> .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### lvm2 (2.02.89)

The original download site for this software is : <ftp://sources.redhat.com/pub/lvm2/releases/> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2.1 license, which can be found below.

#### lz4 (1.8.1.2)

The original download site for this software is : [lz4.github.io/lz4/](http://lz4.github.io/lz4/) .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### lzma (4.65)

The original download site for this software is : <http://www.7-zip.org/sdk.html/> .

#### mng (1.0.10)

Libmng -THE reference library for reading, displaying, writing and examining Multiple-Image Network Graphics.MNG is the animation extension to the popular PNG image-format. The original download site for this software is : <http://sourceforge.net/projects/libmng/files/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### module-init-tools (3.12)

Linux userspace module loading utilities. The original download site for this software is : [https://modules.wiki.kernel.org/index.php/Main\\_Page](https://modules.wiki.kernel.org/index.php/Main_Page) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### mtp (1.1.6)

The original download site for this software is : <http://libmtp.sourceforge.net/> .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### ncurses (5.7)

Provide character terminal processing library. The original download site for this software is : <http://www.gnu.org/software/ncurses/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### net-tools (1.60)

A program contains network command. The original download site for this software is : <http://www.linuxfromscratch.org/blfs/view/6.3/basicnet/net-tools.html> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### nghttp2 (1.21.1)

nghttp2 is an implementation of Hypertext Transfer Protocol version 2 in C. The original download site for this software is : <http://nghttp2.org> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### ntfs-3g (2010.5.22)

[ntfs-3g-1.5012.tgz/ntfs-3g-1.5012/libntfs-3g/attrib.c](http://ntfs-3g-1.5012.tgz/ntfs-3g-1.5012/libntfs-3g/attrib.c). The original download site for this software is : <http://www.tuxera.com/community/ntfs-3g-download/> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2 license, which can be found below.

#### ntfsprogs (2.0.0)

C runtime library. The original download site for this software is : <http://sourceforge.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### ogg (1.3.2)

Libogg: a library for audiomixer, that can provide audio mixer. The original download site for this software is : <http://www.vorbis.com> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### openh264 (1.7.0)

Openh264 is a codec library which supports H.264 encoding and decoding. It is suitable for use in real time applications such as WebRTC. The original download site for this software is : <http://www.openh264.org> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### openssh (6.3p1)

Openssh is secure shell protocol version. The original download site for this software is : <ftp://ftp.openbsd.org/pub/OpenBSD/OpenSSH/portable/openssh-6.3p1.tar.gz> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### openssl (1.0.2g)

The original download site for this software is : <http://www.openssl.org/> .This piece of software is made available under the terms and conditions of the Apache License 1.0 / BSD License, which can be found below.

#### png (1.2.43)

libpng -THE reference library for reading, displaying, writing and examining png Image Network Graphics. The original download site for this software is : <http://sourceforge.net/projects/libpng/files/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### popt (1.16)

The original download site for this software is : <http://packages.debian.org/> .This piece of software is made available under the terms and conditions of the Red Hat Software.

#### procmem (2.0)

The original download site for this software is : [https://github.com/babuneelam/procmem\\_linux\\_x86\\_port](https://github.com/babuneelam/procmem_linux_x86_port) .This piece of software is made available under the terms and conditions of the Apple Public Source License.

#### procps (3.2.8)

Command for watch system process. The original download site for this software is : <http://procps.sourceforge.net/index.html> .This piece of software is made available under the terms and conditions of the LGPLv2 license, which can be found below.

#### procrank (2.0)

The original download site for this software is : [https://github.com/csimmonds/procrank\\_linux](https://github.com/csimmonds/procrank_linux) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### psmisc (22.13)

The original download site for this software is : <http://psmisc.sourceforge.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### pugixml (1.8)

The original download site for this software is : <http://pugixml.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

#### python (2.7.9)

The original download site for this software is : <http://www.python.org/> .

#### qrencode (3.4.2)

The original download site for this software is : <https://fukuchi.org/works/qrencode/> .This piece of software is made available under the terms and conditions of the LGPLv2 license, which can be found below.

#### rlog (1.4)

The original download site for this software is : <http://www.arg0.net/rlog> .This piece of software is made available under the terms and conditions of the GPL 2.1 license, which can be found below.

#### rng-tools (5)

The original download site for this software is : <http://sourceforge.net/projects/gkernel/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### samba (3.0.37)

Samba is the standard Windows interoperability suite

of programs for Linux and Unix. The original

download site for this software is :

<http://www.samba.org/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### sawman (1.5.3)

The original download site for this software is : <http://www.directfb.org> .This piece of software is made available under the terms and conditions of the LGPLv2 license, which can be found below.

#### sed (4.1.5)

The original download site for this software is : <http://www.gnu.org/software/sed/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### simple-mtpfs (0.2)

The original download site for this software is : <http://freecode.com/projects/simple-mtpfs> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### sqlite (3.8.4.3)

Implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The original download site for this software is : <http://www.sqlite.org/> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### sqlite3 (3.7.2)

Implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The original download site for this software is : <http://www.sqlite.org/> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### tar (1.17)

The original download site for this software is : <http://www.gnu.org/software/tar/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### thttpd (2.25b)

The original download site for this software is : <http://acme.com/software/thttpd/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### toybox (0.4.0)

The original download site for this software is : <http://www.landley.net/toybox/downloads/toybox-0.4.0.tar.bz2> .This piece of software is made available under

the terms and conditions of the GPL 2.0 license, which can be found below.

#### ttxfont (1.0)

The original download site for this software is : <http://linux.bytesex.org/xawtv/tvfonts/html> [Http://zapping.sourceforge.net/ZVBI/index.html](http://zapping.sourceforge.net/ZVBI/index.html) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### uboot (2011.12)

The uboot will load the linux kernel to dram, and jump to run . The original download site for this software is : <http://www.denx.de> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### udhcp (0.9.9-pre)

Terminal device as a DHCP client. The original download site for this software is : <http://udhcp.sourceforge.net/downloads/0.9.8cvs20050303-3/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### unicode (3.2)

The original download site for this software is : <http://www.icu-project.org/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### uriparser (0.7.7)

The original download site for this software is : <http://uriparser.sourceforge.net/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### util-linux-ng (2.18)

util-linux is a random collection of Linux utilities. The original download site for this software is : <http://userweb.kernel.org/~kzak/util-linux-ng/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### webp (0.2.1)

libwebp: a library for browser, that can improve the performance of downloading image webp.txt's directory [http://teams.mediatek.com/dtv/SSD/SS3/Task%20Forces/Forms/AllItems.aspx?RootFolder=%2fdtv%2fSSD%2fSS3%2fTask%20Forces%2f3rd%20party%20list%2fLicense\\_Texts&FolderCTID=&View=%7b4DF37793-E07B-481C-BBFC-CD139C18D384%7d](http://teams.mediatek.com/dtv/SSD/SS3/Task%20Forces/Forms/AllItems.aspx?RootFolder=%2fdtv%2fSSD%2fSS3%2fTask%20Forces%2f3rd%20party%20list%2fLicense_Texts&FolderCTID=&View=%7b4DF37793-E07B-481C-BBFC-CD139C18D384%7d) .The original download site for this software is : <http://code.google.com/p/webp/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

#### wget (1.10.2)

Check network for http/https .The original download site for this software is : <http://ftp.gnu.org/gnu/wget/wget-1.10.2.tar.gz> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### wireless\_tools (v29)

The original download site for this software is : [http://www.hpl.hp.com/personal/Jean\\_Tourrilhes/Linux/Tools.html](http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html) .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

#### wpa\_supplicant (v0.8(wext)/v2.3(cfg80211))

Library used by legacy HAL to talk to wpa\_supplicant daemon. The original download site for this software is : [https://w1.fi/wpa\\_supplicant/](https://w1.fi/wpa_supplicant/) .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

#### xerces (3.1.1)

C runtime library. The original download site for this software is : <http://xerces.apache.org/> .This piece of software is made available under the terms and conditions of the Apache License Version 2.0, which can be found below.

#### zlib(1.2.3)

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. The original download site for this software is : <http://www.zlib.net/> .

#### Hue SDK (1.8.1)

TV ambihue app uses Philips SDK to find the hue bridge name. The original download site for this software is : <https://developers.meethue.com/documentation/java-multi-platform-and-android-sdk>

#### Opera Web Browser (SDK 4.8.0)

This TV contains Opera Browser Software. Third-party licenses

#### WebKit

name License

WebKit

URL: <http://webkit.org/>

(WebKit doesn't distribute an explicit license. This LICENSE is derived from license text in the source.)

Copyright (c) 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 Alexander Kellett, Alexey Proskuryakov, Alex Mathews, Allan

Sandfeld Jensen, Alp Toker, Anders Carlsson, Andrew Wellington, Antti Koivisto, Apple Inc., Arthur Langereis, Baron Schwartz, Bjoern Graf, Brent Fulgham, Cameron Zwarich, Charles Samuels, Christian Dywan, Collabora Ltd., Cyrus Patel, Daniel Molkentin, Dave MacLachlan, David Smith, Dawit Alemayehu, Dirk Mueller, Dirk Schulze, Don Gibson, Enrico Ros, Eric Seidel, Frederik Holljen, Frerich Raabe, Friedmann Kleint, George Staikos, Google Inc., Graham Dennis, Harri Porten, Henry Mason, Hiroyuki Ikezoe, Holger Hans Peter Freyther, IBM, James G. Speth, Jan Alonzo, Jean-Loup Gailly, John Reis, Jonas Witt, Jon Shier, Jonas Witt, Julien Chaffraix, Justin Haygood, Kevin Ollivier, Kevin Watters, Kimmo Kinnunen, Kouhei Sutou, Krzysztof Kowalczyk, Lars Knoll, Luca Bruno, Maks Orlovich, Malte Starostik, Mark Adler, Martin Jones, Marvin Decker, Matt Lilek, Michael Emmel, Mitz Pettel, mozilla.org, Netscape Communications Corporation, Nicholas Shanks, Nikolas Zimmermann, Nokia, Oliver Hunt, Opened Hand, Paul Johnston, Peter Kelly, Pioneer Research Center USA, Rich Moore, Rob Buis, Robin Dunn, Ronald Tschalär, Samuel Weinig, Simon Hausmann, Staikos Computing Services Inc., Stefan Schimanski, Symantec Corporation, The Dojo Foundation, The Karbon Developers, Thomas Boyer, Tim Copperfield, Tobias Anton, Torben Weis, Trolltech, University of Cambridge, Vaclav Slavik, Waldo Bastian, Xan Lopez, Zack Rusin

The terms and conditions vary from file to file, but are one of:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

\*OR\*

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Apple Computer, Inc. ("Apple") nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY APPLE COMPUTER, INC. "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE COMPUTER, INC. OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY

OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU LIBRARY GENERAL  
PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA  
02110-1301 USA

Everyone is permitted to copy and distribute  
verbatim copies  
of this license document, but changing it is not  
allowed.

[This is the first released version of the library GPL. It  
is  
numbered 2 because it goes with version 2 of the  
ordinary GPL.]

#### Preamble

The licenses for most software are designed to take  
away your  
freedom to share and change it. By contrast, the  
GNU General Public  
Licenses are intended to guarantee your freedom to  
share and change  
free software--to make sure the software is free for  
all its users.

This license, the Library General Public License,  
applies to some  
specially designated Free Software Foundation  
software, and to any  
other libraries whose authors decide to use it. You  
can use it for  
your libraries, too.

When we speak of free software, we are referring to  
freedom, not  
price. Our General Public Licenses are designed to  
make sure that you  
have the freedom to distribute copies of free software  
(and charge for  
this service if you wish), that you receive source code  
or can get it  
if you want it, that you can change the software or  
use pieces of it  
in new free programs; and that you know you can do  
these things.

To protect your rights, we need to make restrictions  
that forbid  
anyone to deny you these rights or to ask you to  
surrender the rights.  
These restrictions translate to certain responsibilities  
for you if  
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library,  
whether gratis  
or for a fee, you must give the recipients all the rights  
that we gave  
you. You must make sure that they, too, receive or  
can get the source  
code. If you link a program with the library, you must  
provide

complete object files to the recipients so that they  
can relink them  
with the library, after making changes to the library  
and recompiling  
it. And you must show them these terms so they  
know their rights.

Our method of protecting your rights has two steps:  
(1) copyright  
the library, and (2) offer you this license which gives  
you legal  
permission to copy, distribute and/or modify the  
library.

Also, for each distributor's protection, we want to  
make certain  
that everyone understands that there is no warranty  
for this free  
library. If the library is modified by someone else  
and passed on, we  
want its recipients to know that what they have is not  
the original  
version, so that any problems introduced by others  
will not reflect on  
the original authors' reputations.

Finally, any free program is threatened constantly  
by software  
patents. We wish to avoid the danger that  
companies distributing free  
software will individually obtain patent licenses, thus  
in effect  
transforming the program into proprietary software.  
To prevent this,  
we have made it clear that any patent must be  
licensed for everyone's  
free use or not licensed at all.

Most GNU software, including some libraries, is  
covered by the ordinary  
GNU General Public License, which was designed for  
utility programs. This  
license, the GNU Library General Public License,  
applies to certain  
designated libraries. This license is quite different  
from the ordinary  
one; be sure to read it in full, and don't assume that  
anything in it is  
the same as in the ordinary license.

The reason we have a separate public license for  
some libraries is that  
they blur the distinction we usually make between  
modifying or adding to a  
program and simply using it. Linking a program with  
a library, without  
changing the library, is in some sense simply using the  
library, and is  
analogous to running a utility program or application  
program. However, in

a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

## GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the

Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a



portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of

definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise

permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted

interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY

KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND  
CONDITIONS

GNU LESSER GENERAL  
PUBLIC LICENSE

Version 2.1, February  
1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA  
02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal

permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less

of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other

program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of

warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of

the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to

produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the



license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work

based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is

implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write

to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

Other

name License  
Chromium  
URL: <http://www.chromium.org>

Copyright (c) 2013 The Chromium Authors. All rights

reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--

The following files are distributed under the MPL 1.1/GPL 2.0/LGPL 2.1 tri-license:

canonical\_cookie.cc  
parsed\_cookie.cc  
cookie\_monster.cc  
http\_chunked\_decoder.cc  
md4.cc  
md4.h  
http\_chunked\_decoder.h  
ssl\_client\_socket\_nss.cc

proxy\_resolver\_script.h  
chromium-nss.h  
chromium-blapi.h  
chromium-blapit.h  
chromium-sha256.h  
chromium-prtypes.h  
pk11akey.cc  
secsign.cc  
sha512.cc

The following files contain portions distributed under the MPL 1.1/GPL 2.0/LGPL 2.1 tri-license:

http\_auth\_handler\_ntlm\_portable.cc  
des.cc  
registry\_controlled\_domains/registry\_controlled\_domain.cc  
registry\_controlled\_domains/registry\_controlled\_domain.h  
multipart\_response\_delegate.h  
content\_strings.grd

The following files are distributed under the MPL 2.0 license:  
rsawrapr.c

Fontconfig  
URL: <http://www.fontconfig.org>

Copyright © 2000,2001,2002,2003,2004,2006,2007 Keith Packard  
Copyright © 2005 Patrick Lam  
Copyright © 2009 Roozbeh Pournader  
Copyright © 2008,2009 Red Hat, Inc.  
Copyright © 2008 Danilo Šegan

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of the author(s) not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. The authors make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THE AUTHOR(S) DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY

SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Arphic fonts

URL: <http://www.freedesktop.org/wiki/Software/CJKUnifonts/Download>

## ARPHIC PUBLIC LICENSE

Copyright (C) 1999 Arphic Technology Co., Ltd.  
11Fl. No.168, Yung Chi Rd., Taipei, 110 Taiwan  
All rights reserved except as specified below.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is forbidden.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the ARPHIC PUBLIC LICENSE specifically permits and encourages you to use this software, provided that you give the recipients all the rights that we gave you and make sure they can get the modifications of this software.

### Legal Terms

#### 0. Definitions:

Throughout this License, "Font" means the TrueType fonts "AR PL Mingti2L Big5", "AR PL KaitiM Big5" (BIG-5 character set) and "AR PL SungtiL GB", "AR PL KaitiM GB" (GB character set) which are originally distributed by Arphic, and the derivatives of those fonts created through any modification including modifying glyph, reordering glyph, converting format, changing font name, or adding/deleting some characters in/from glyph table.

"PL" means "Public License".

"Copyright Holder" means whoever is named in the copyright or copyrights for the Font.

"You" means the licensee, or person copying, redistributing or modifying the Font.

"Freely Available" means that you have the freedom to copy or modify the Font as well as redistribute copies of the Font under the same conditions you received, not price. If you wish, you can charge for this service.

#### 1. Copying & Distribution

You may copy and distribute verbatim copies of this Font in any medium, without restriction, provided that you retain this license file (ARPHICPL.TXT) unaltered in all copies.

#### 2. Modification

You may otherwise modify your copy of this Font in any way, including modifying glyph, reordering glyph, converting format, changing font name, or adding/deleting some characters in/from glyph table, and copy and distribute such modifications under the terms of Section 1 above, provided that the following conditions are met:

a) You must insert a prominent notice in each modified file stating how and when you changed that file.

b) You must make such modifications Freely Available as a whole to all third parties under the terms of this License, such as by offering access to copy the modifications from a designated place, or distributing the modifications on a medium customarily used for software interchange.

c) If the modified fonts normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the Font under these conditions, and telling the user how to view a copy of this License.

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Font, and can be reasonably considered independent and separate works in themselves, then this License and its terms, do not apply to those sections when you distribute them as separate works. Therefore, mere aggregation of another work not based on the Font with the Font on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

#### 3. Condition Subsequent

You may not copy, modify, sublicense, or distribute the Font except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Font will automatically retroactively void your rights under this License. However, parties who have received copies or rights from you under this License will keep their licenses valid so long as such parties remain in full compliance.

#### 4. Acceptance

You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to copy, modify, sublicense or distribute the Font. These actions are prohibited by law if you do not accept this License. Therefore, by copying, modifying, sublicensing or distributing the Font, you indicate your acceptance of this License and all its terms and conditions.

#### 5. Automatic Receipt

Each time you redistribute the Font, the recipient automatically receives a license from the original licensor to copy, distribute or modify the Font subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

#### 6. Contradiction

If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Font at all. For example, if a patent license would not permit royalty-free redistribution of the Font by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Font.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

#### 7. NO WARRANTY

BECAUSE THE FONT IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE FONT, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS OR OTHER PARTIES PROVIDE THE FONT "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE FONT IS WITH YOU. SHOULD THE FONT PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 8. DAMAGES WAIVER

UNLESS REQUIRED BY APPLICABLE LAW OR

AGREED TO IN WRITING, IN NO EVENT WILL ANY COPYRIGHT HOLDERS, OR OTHER PARTIES WHO MAY COPY, MODIFY OR REDISTRIBUTE THE FONT AS PERMITTED ABOVE, BE LIABLE TO YOU FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE FONT (INCLUDING BUT NOT LIMITED TO PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA OR PROFITS; OR BUSINESS INTERRUPTION), EVEN IF SUCH HOLDERS OR OTHER PARTIES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Bitstream Vera fonts

URL: [http://www.gnome.org/fonts/#Final\\_Bitstream\\_Vera\\_Fonts](http://www.gnome.org/fonts/#Final_Bitstream_Vera_Fonts)

#### Bitstream Vera Fonts Copyright

The fonts have a generous copyright, allowing derivative works (as long as "Bitstream" or "Vera" are not in the names), and full redistribution (so long as they are not \*sold\* by themselves). They can be bundled, redistributed and sold with any software.

The fonts are distributed under the following copyright:

Copyright

=====

Copyright (c) 2003 by Bitstream, Inc. All Rights Reserved. Bitstream Vera is a trademark of Bitstream, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of the fonts accompanying this license ("Fonts") and associated documentation files (the "Font Software"), to reproduce and distribute the Font Software, including without limitation the rights to use, copy, merge, publish, distribute, and/or sell copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so, subject to the following conditions:

The above copyright and trademark notices and this permission notice shall be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or

added to, and in particular the designs of glyphs or characters in the Fonts may be modified and additional glyphs or characters may be added to the Fonts, only if the fonts are renamed to names not containing either the words "Bitstream" or the word "Vera".

This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Bitstream Vera" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL BITSTREAM OR THE GNOME FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the names of Gnome, the Gnome Foundation, and Bitstream Inc., shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from the Gnome Foundation or Bitstream Inc., respectively. For further information, contact: fonts at gnome dot org.

#### Copyright FAQ =====

1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its

competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?  
Yes!

4. Can I change or add to the font(s)?  
Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer,

happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see [www.fontconfig.org](http://www.fontconfig.org)) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

Open Sans fonts  
URL:  
<http://www.google.com/fonts/specimen/Open+Sans>

License for Open Sans Font Family

-----  
Apache License  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1

through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by

name) to the interfaces of,  
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including  
the original version of the Work and any modifications or additions  
to that Work or Derivative Works thereof, that is intentionally  
submitted to Licensor for inclusion in the Work by the copyright owner  
or by an individual or Legal Entity authorized to submit on behalf of  
the copyright owner. For the purposes of this definition, "submitted"  
means any form of electronic, verbal, or written communication sent  
to the Licensor or its representatives, including but not limited to  
communication on electronic mailing lists, source code control systems,  
and issue tracking systems that are managed by, or on behalf of, the  
Licensor for the purpose of discussing and improving the Work, but  
excluding communication that is conspicuously marked or otherwise  
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity  
on behalf of whom a Contribution has been received by Licensor and  
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of  
this License, each Contributor hereby grants to You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-free, irrevocable  
copyright license to reproduce, prepare Derivative Works of,  
publicly display, publicly perform, sublicense, and distribute the  
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of  
this License, each Contributor hereby grants to You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-free, irrevocable  
(except as stated in this section) patent license to make, have made,  
use, offer to sell, sell, import, and otherwise transfer the Work,  
where such license applies only to those

patent claims licensable  
by such Contributor that are necessarily infringed by their  
Contribution(s) alone or by combination of their Contribution(s)  
with the Work to which such Contribution(s) was submitted. If You  
institute patent litigation against any entity (including a  
cross-claim or counterclaim in a lawsuit) alleging that the Work  
or a Contribution incorporated within the Work constitutes direct  
or contributory patent infringement, then any patent licenses  
granted to You under this License for that Work shall terminate  
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the  
Work or Derivative Works thereof in any medium, with or without  
modifications, and in Source or Object form, provided that You  
meet the following conditions:

(a) You must give any other recipients of the Work or  
Derivative Works a copy of this License;  
and

(b) You must cause any modified files to carry prominent notices  
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works  
that You distribute, all copyright, patent, trademark, and  
attribution notices from the Source form of the Work,  
excluding those notices that do not pertain to any part of  
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its  
distribution, then any Derivative Works that You distribute must  
include a readable copy of the attribution notices contained  
within such NOTICE file, excluding those notices that do not  
pertain to any part of the Derivative Works, in at least one  
of the following places: within a NOTICE text file distributed  
as part of the Derivative Works; within the Source form or



documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF

ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work,  
attach the following  
boilerplate notice, with the fields enclosed by  
brackets "[ ]"  
replaced with your own identifying  
information. (Don't include  
the brackets!) The text should be enclosed in  
the appropriate  
comment syntax for the file format. We also  
recommend that a  
file or class name and description of purpose  
be included on the  
same "printed page" as the copyright notice  
for easier  
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0  
(the "License");  
you may not use this file except in compliance  
with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in  
writing, software  
distributed under the License is distributed on an  
"AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY  
KIND, either express or implied.  
See the License for the specific language  
governing permissions and  
limitations under the License.

VL Gothic fonts  
URL: <http://dicey.org/vlgothic/index.html>

License for VLGothic Font Family

-----  
This font includes glyphs derived from M+ FONTS  
which is created by  
M+ FONTS PROJECT. License for M+ FONTS part is  
described in M+ FONTS  
PROJECT's license. See attached 'LICENSE\_E.mplus'.

This font also includes glyphs derived from Sazanami  
Gothic font which  
is created by Electronic Font Open Laboratory  
(/efont/). License for  
Sazanami Gothic part is described in it's license. See  
attached  
'README.sazanami' for original Sazanami Gothic font  
license.

This font also includes original glyphs which is  
created by Daisuke

SUZUKI and Project Vine based on M+ FONTS. License  
for VL Gothic  
original glyphs is same as M+ FONTS PROJECT's  
license.

There is no limitation and the below description is not  
applied  
as for in order not to reuse as font (ex: font is  
embedded to documents).

Copyright (c) 1990-2003 Wada Laboratory, the  
University of Tokyo.

Copyright (c) 2003-2004 Electronic Font Open  
Laboratory (/efont/).

Copyright (C) 2003-2009 M+ FONTS PROJECT  
Copyright (C) 2006-2009 Daisuke SUZUKI

<daisuke@vinelinux.org>.

Copyright (C) 2006-2009 Project Vine

<Vine@vinelinux.org>.

All rights reserved.

Redistribution and use in source and binary forms,  
with or without  
modification, are permitted provided that the  
following conditions  
are met:

1. Redistributions of source code must retain the  
above copyright notice,  
this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the  
above copyright notice,  
this list of conditions and the following disclaimer  
in the documentation  
and/or other materials provided with the  
distribution.
3. Neither the name of the Wada Laboratory, the  
University of Tokyo nor  
the names of its contributors may be used to  
endorse or promote products  
derived from this software without specific prior  
written permission.

THIS SOFTWARE IS PROVIDED BY WADA  
LABORATORY, THE UNIVERSITY OF TOKYO AND  
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR  
IMPLIED WARRANTIES, INCLUDING, BUT  
NOT LIMITED TO, THE IMPLIED WARRANTIES OF  
MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
EVENT SHALL THE LABORATORY OR  
CONTRIBUTORS BE LIABLE FOR ANY DIRECT,  
INDIRECT, INCIDENTAL, SPECIAL,  
EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO,  
PROCUREMENT OF SUBSTITUTE GOODS OR  
SERVICES; LOSS OF USE, DATA, OR PROFITS;  
OR BUSINESS INTERRUPTION) HOWEVER CAUSED  
AND ON ANY THEORY OF LIABILITY,  
WHETHER IN CONTRACT, STRICT LIABILITY, OR  
TORT (INCLUDING NEGLIGENCE OR

OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Nanum fonts

URL: <http://hangeul.naver.com/>

Copyright (c) 2010, NAVER Corporation

(<http://www.nhncorp.com>),

with Reserved Font Name Nanum, Naver Nanum,

NanumGothic, Naver NanumGothic,

NanumMyeongjo, Naver NanumMyeongjo,

NanumBrush, Naver NanumBrush, NanumPen, Naver

NanumPen, Naver NanumGothicEco,

NanumGothicEco, Naver NanumMyeongjoEco,

NanumMyeongjoEco, Naver NanumGothicLight,

NanumGothicLight, NanumBarunGothic, Naver

NanumBarunGothic,

This Font Software is licensed under the SIL Open Font License, Version 1.1.

This license is copied below, and is also available with a FAQ at: <http://scripts.sil.org/OFL>

This Font Software is licensed under the SIL Open Font License, Version 1.1.

This license is copied below, and is also available with a FAQ at:

<http://scripts.sil.org/OFL>

-----  
-----  
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007  
-----  
-----

## PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply

to any document created using the fonts or their derivatives.

## DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

## PERMISSION & CONDITIONS

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

- 1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.
- 2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.
- 3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted

by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

#### TERMINATION

This license becomes null and void if any of the above conditions are not met.

#### DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

#### Mini-XML

URL: <http://www.msweet.org/projects.php?Z3>

#### Mini-XML License

The Mini-XML library and included programs are provided under the terms of the GNU Library General Public License version 2 (LGPL2) with the following exceptions:

1. Static linking of applications to the Mini-XML library

does not constitute a derivative work and does not require the author to provide source code for the application, use the shared Mini-XML libraries, or link their applications against a user-supplied version of Mini-XML.

If you link the application to a modified version of Mini-XML, then the changes to Mini-XML must be provided under the terms of the LGPL2 in sections 1, 2, and 4.

2. You do not have to provide a copy of the Mini-XML license with programs that are linked to the Mini-XML library, nor do you have to identify the Mini-XML license in your program or documentation as required by section 6 of the LGPL2.

#### GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.  
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the

recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all

benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of

the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on

the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that

the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have

received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE



LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the library's name and an idea of what it does.

Copyright (C) year name of author

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a

"copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990 Ty Coon, President of Vice

That's all there is to it!

Boost

URL: <http://www.boost.org/>

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

libcurl

URL: <http://curl.haxx.se/>

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 – 2014, Daniel Stenberg,  
<daniel@haxx.se>.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

libcurl – lib/krb5.c  
URL: <https://github.com/bagder/curl/blob/master/lib/krb5.c>

/\* GSSAPI/krb5 support for FTP – loosely based on old krb4.c

\*

\* Copyright (c) 1995, 1996, 1997, 1998, 1999, 2013 Kungliga Tekniska Högskolan

\* (Royal Institute of Technology, Stockholm, Sweden).

\* Copyright (c) 2004 – 2012 Daniel Stenberg

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\*

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\*

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\*

\* 3. Neither the name of the Institute nor the names of its contributors

\* may be used to endorse or promote products derived from this software

\* without specific prior written permission.

\*

\* THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS "AS IS" AND

\* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

\* ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE

\* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

\* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

\* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

\* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

\* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

\* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

\* SUCH DAMAGE. \*/

libcurl – lib/security.c

URL: <https://github.com/bagder/curl/blob/master/lib/security.c>

/\* This source code was modified by Martin Hedenfalk <mhe@stacken.kth.se> for

\* use in Curl. His latest changes were done 2000-09-18.

\*

\* It has since been patched and modified a lot by Daniel Stenberg

\* <daniel@haxx.se> to make it better applied to curl conditions, and to make

\* it not use globals, pollute name space and more.

This source code awaits a

\* rewrite to work around the paragraph 2 in the BSD licenses as explained

\* below.

\*

\* Copyright (c) 1998, 1999, 2013 Kungliga Tekniska Högskolan

\* (Royal Institute of Technology, Stockholm, Sweden).

\*

\* Copyright (C) 2001 – 2013, Daniel Stenberg, <daniel@haxx.se>, et al.

\*

```

* All rights reserved.
*
* Redistribution and use in source and binary forms,
with or without
* modification, are permitted provided that the
following conditions
* are met:
*
* 1. Redistributions of source code must retain the
above copyright
* notice, this list of conditions and the following
disclaimer.
*
* 2. Redistributions in binary form must reproduce
the above copyright
* notice, this list of conditions and the following
disclaimer in the
* documentation and/or other materials
provided with the distribution.
*
* 3. Neither the name of the Institute nor the names
of its contributors
* may be used to endorse or promote products
derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE INSTITUTE
AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE
INSTITUTE OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE. */

```

David M. Gay's floating point routines  
URL: <http://www.netlib.org/fp/>

```

/*****
*****
*
* The author of this software is David M. Gay.
*
* Copyright (c) 1991, 2000, 2001 by Lucent
Technologies.
*
* Permission to use, copy, modify, and distribute this

```

```

software for any
* purpose without fee is hereby granted, provided
that this entire notice
* is included in all copies of any software which is or
includes a copy
* or modification of this software and in all copies of
the supporting
* documentation for such software.
*
* THIS SOFTWARE IS BEING PROVIDED "AS IS",
WITHOUT ANY EXPRESS OR IMPLIED
* WARRANTY. IN PARTICULAR, NEITHER THE
AUTHOR NOR LUCENT MAKES ANY
* REPRESENTATION OR WARRANTY OF ANY KIND
CONCERNING THE MERCHANTABILITY
* OF THIS SOFTWARE OR ITS FITNESS FOR ANY
PARTICULAR PURPOSE.
*
*****

```

dynamic annotations  
URL: <http://code.google.com/p/data-race-test/wiki/DynamicAnnotations>

```

/* Copyright (c) 2008-2009, Google Inc.
* All rights reserved.
*
* Redistribution and use in source and binary forms,
with or without
* modification, are permitted provided that the
following conditions are
* met:
*
* * Redistributions of source code must retain
the above copyright
* notice, this list of conditions and the following
disclaimer.
* * Neither the name of Google Inc. nor the
names of its
* contributors may be used to endorse or promote
products derived from
* this software without specific prior written
permission.
*
* THIS SOFTWARE IS PROVIDED BY THE
COPYRIGHT HOLDERS AND CONTRIBUTORS
* "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT
* LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR
* A PARTICULAR PURPOSE ARE DISCLAIMED. IN
NO EVENT SHALL THE COPYRIGHT
* OWNER OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS

```

INTERRUPTION) HOWEVER CAUSED AND ON ANY  
\* THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT LIABILITY, OR TORT  
\* (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY OUT OF THE USE  
\* OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

\*

\* ---

\* Author: Kostya Serebryany

\*/

libevent

URL: <http://libevent.org/>

Libevent is available for use under the following  
license, commonly known  
as the 3-clause (or "modified") BSD license:

=====

Copyright (c) 2000-2007 Niels Provos  
<provos@citi.umich.edu>

Copyright (c) 2007-2010 Niels Provos and Nick  
Mathewson

Redistribution and use in source and binary forms,  
with or without  
modification, are permitted provided that the  
following conditions  
are met:

1. Redistributions of source code must retain the  
above copyright  
notice, this list of conditions and the following  
disclaimer.
2. Redistributions in binary form must reproduce the  
above copyright  
notice, this list of conditions and the following  
disclaimer in the  
documentation and/or other materials provided  
with the distribution.
3. The name of the author may not be used to  
endorse or promote products  
derived from this software without specific prior  
written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS  
IS" AND ANY EXPRESS OR  
IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES  
OF MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE ARE DISCLAIMED.  
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR  
ANY DIRECT, INDIRECT,  
INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE  
GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT,

STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING  
IN ANY WAY OUT OF THE USE OF  
THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

=====

Portions of Libevent are based on works by others,  
also made available by  
them under the three-clause BSD license above.  
The copyright notices are  
available in the corresponding source files; the license  
is as above. Here's  
a list:

log.c:

Copyright (c) 2000 Dug Song  
<dugsong@monkey.org>

Copyright (c) 1993 The Regents of the University of  
California.

strlcpy.c:

Copyright (c) 1998 Todd C. Miller  
<Todd.Miller@courtesan.com>

win32.c:

Copyright (c) 2003 Michael A. Davis  
<mike@datanerds.net>

evport.c:

Copyright (c) 2007 Sun Microsystems

min\_heap.h:

Copyright (c) 2006 Maxim Yegorushkin  
<maxim.yegorushkin@gmail.com>

tree.h:

Copyright 2002 Niels Provos  
<provos@citi.umich.edu>

Netscape Portable Runtime (NSPR)

URL: <http://www.mozilla.org/projects/nspr/>

/\* \*\*\*\*\* BEGIN LICENSE BLOCK \*\*\*\*\*

\* Version: MPL 1.1/GPL 2.0/LGPL 2.1

\*

\* The contents of this file are subject to the Mozilla  
Public License Version

\* 1.1 (the "License"); you may not use this file except  
in compliance with

\* the License. You may obtain a copy of the License  
at

\* <http://www.mozilla.org/MPL/>

\*

\* Software distributed under the License is  
distributed on an "AS IS" basis,

\* WITHOUT WARRANTY OF ANY KIND, either  
express or implied. See the License

\* for the specific language governing rights and  
limitations under the

\* License.  
 \*  
 \* The Original Code is the Netscape Portable Runtime (NSPR).  
 \*  
 \* The Initial Developer of the Original Code is  
 \* Netscape Communications Corporation.  
 \* Portions created by the Initial Developer are  
 Copyright (C) 1998-2000  
 \* the Initial Developer. All Rights Reserved.  
 \*  
 \* Contributor(s):  
 \*  
 \* Alternatively, the contents of this file may be used  
 under the terms of  
 \* either the GNU General Public License Version 2 or  
 later (the "GPL"), or  
 \* the GNU Lesser General Public License Version 2.1  
 or later (the "LGPL"),  
 \* in which case the provisions of the GPL or the  
 LGPL are applicable instead  
 \* of those above. If you wish to allow use of your  
 version of this file only  
 \* under the terms of either the GPL or the LGPL, and  
 not to allow others to  
 \* use your version of this file under the terms of the  
 MPL, indicate your  
 \* decision by deleting the provisions above and  
 replace them with the notice  
 \* and other provisions required by the GPL or the  
 LGPL. If you do not delete  
 \* the provisions above, a recipient may use your  
 version of this file under  
 \* the terms of any one of the MPL, the GPL or the  
 LGPL.  
 \*  
 \* \*\*\*\*\* END LICENSE BLOCK \*\*\*\*\* \*/

Paul Hsieh's SuperFastHash  
 URL:  
<http://www.azillionmonkeys.com/qed/hash.html>

Paul Hsieh OLD BSD license

Copyright (c) 2010, Paul Hsieh  
 All rights reserved.

Redistribution and use in source and binary forms,  
 with or without modification,  
 are permitted provided that the following conditions  
 are met:

\* Redistributions of source code must retain the  
 above copyright notice, this  
 list of conditions and the following disclaimer.  
 \* Redistributions in binary form must reproduce the  
 above copyright notice, this  
 list of conditions and the following disclaimer in the  
 documentation and/or  
 other materials provided with the distribution.

\* Neither my name, Paul Hsieh, nor the names of any  
 other contributors to the  
 code use may not be used to endorse or promote  
 products derived from this  
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT  
 HOLDERS AND CONTRIBUTORS "AS IS" AND  
 ANY EXPRESS OR IMPLIED WARRANTIES,  
 INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
 WARRANTIES OF MERCHANTABILITY AND FITNESS  
 FOR A PARTICULAR PURPOSE ARE  
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
 OWNER OR CONTRIBUTORS BE LIABLE FOR  
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,  
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT  
 OF SUBSTITUTE GOODS OR SERVICES;  
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
 INTERRUPTION) HOWEVER CAUSED AND ON  
 ANY THEORY OF LIABILITY, WHETHER IN  
 CONTRACT, STRICT LIABILITY, OR TORT  
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING  
 IN ANY WAY OUT OF THE USE OF THIS  
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY  
 OF SUCH DAMAGE.

google-glog's symbolization library  
 URL: <https://github.com/google/glog>

// Copyright (c) 2006, Google Inc.  
 // All rights reserved.  
 //  
 // Redistribution and use in source and binary forms,  
 with or without  
 // modification, are permitted provided that the  
 following conditions are  
 // met:  
 //  
 // \* Redistributions of source code must retain  
 the above copyright  
 // notice, this list of conditions and the following  
 disclaimer.  
 // \* Redistributions in binary form must  
 reproduce the above  
 // copyright notice, this list of conditions and the  
 following disclaimer  
 // in the documentation and/or other materials  
 provided with the  
 // distribution.  
 // \* Neither the name of Google Inc. nor the  
 names of its  
 // contributors may be used to endorse or promote  
 products derived from  
 // this software without specific prior written  
 permission.  
 //  
 // THIS SOFTWARE IS PROVIDED BY THE  
 COPYRIGHT HOLDERS AND CONTRIBUTORS  
 // "AS IS" AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT  
 // LIMITED TO, THE IMPLIED WARRANTIES OF  
 MERCHANTABILITY AND FITNESS FOR  
 // A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
 EVENT SHALL THE COPYRIGHT  
 // OWNER OR CONTRIBUTORS BE LIABLE FOR ANY  
 DIRECT, INDIRECT, INCIDENTAL,  
 // SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
 DAMAGES (INCLUDING, BUT NOT  
 // LIMITED TO, PROCUREMENT OF SUBSTITUTE  
 GOODS OR SERVICES; LOSS OF USE,  
 // DATA, OR PROFITS; OR BUSINESS  
 INTERRUPTION) HOWEVER CAUSED AND ON ANY  
 // THEORY OF LIABILITY, WHETHER IN CONTRACT,  
 STRICT LIABILITY, OR TORT  
 // (INCLUDING NEGLIGENCE OR OTHERWISE)  
 ARISING IN ANY WAY OUT OF THE USE  
 // OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
 POSSIBILITY OF SUCH DAMAGE.

valgrind  
 URL: <http://valgrind.org>

Notice that the following BSD-style license applies  
 to the Valgrind header  
 files used by Chromium (valgrind.h and  
 memcheck.h). However, the rest of  
 Valgrind is licensed under the terms of the GNU  
 General Public License,  
 version 2, unless otherwise indicated.

-----  
 -----

Copyright (C) 2000-2008 Julian Seward. All  
 rights reserved.

Redistribution and use in source and binary forms,  
 with or without  
 modification, are permitted provided that the  
 following conditions  
 are met:

1. Redistributions of source code must retain the  
 above copyright  
 notice, this list of conditions and the following  
 disclaimer.

2. The origin of this software must not be  
 misrepresented; you must  
 not claim that you wrote the original  
 software. If you use this  
 software in a product, an acknowledgment in  
 the product  
 documentation would be appreciated but is  
 not required.

3. Altered source versions must be plainly marked  
 as such, and must  
 not be misrepresented as being the original

software.

4. The name of the author may not be used to  
 endorse or promote  
 products derived from this software without  
 specific prior written  
 permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR  
 "AS IS" AND ANY EXPRESS  
 OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
 LIMITED TO, THE IMPLIED  
 WARRANTIES OF MERCHANTABILITY AND  
 FITNESS FOR A PARTICULAR PURPOSE  
 ARE DISCLAIMED. IN NO EVENT SHALL THE  
 AUTHOR BE LIABLE FOR ANY  
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL,  
 EXEMPLARY, OR CONSEQUENTIAL  
 DAMAGES (INCLUDING, BUT NOT LIMITED TO,  
 PROCUREMENT OF SUBSTITUTE  
 GOODS OR SERVICES; LOSS OF USE, DATA, OR  
 PROFITS; OR BUSINESS  
 INTERRUPTION) HOWEVER CAUSED AND ON  
 ANY THEORY OF LIABILITY,  
 WHETHER IN CONTRACT, STRICT LIABILITY, OR  
 TORT (INCLUDING  
 NEGLIGENCE OR OTHERWISE) ARISING IN ANY  
 WAY OUT OF THE USE OF THIS  
 SOFTWARE, EVEN IF ADVISED OF THE  
 POSSIBILITY OF SUCH DAMAGE.

Mozilla Personal Security Manager  
 URL: <http://mxr.mozilla.org/mozilla-central/source/security/manager/>

```
/* ***** BEGIN LICENSE BLOCK *****
 * Version: MPL 1.1/GPL 2.0/LGPL 2.1
 *
 * The contents of this file are subject to the Mozilla
 * Public License Version
 * 1.1 (the "License"); you may not use this file except
 * in compliance with
 * the License. You may obtain a copy of the License
 * at
 * http://www.mozilla.org/MPL/
 *
 * Software distributed under the License is
 * distributed on an "AS IS" basis,
 * WITHOUT WARRANTY OF ANY KIND, either
 * express or implied. See the License
 * for the specific language governing rights and
 * limitations under the
 * License.
 *
 * The Original Code is the Netscape security libraries.
 *
 * The Initial Developer of the Original Code is
 * Netscape Communications Corporation.
 * Portions created by the Initial Developer are
 * Copyright (C) 2000
```

\* the Initial Developer. All Rights Reserved.  
 \*  
 \* Contributor(s):  
 \*  
 \* Alternatively, the contents of this file may be used under the terms of  
 \* either the GNU General Public License Version 2 or later (the "GPL"), or  
 \* the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),  
 \* in which case the provisions of the GPL or the LGPL are applicable instead  
 \* of those above. If you wish to allow use of your version of this file only  
 \* under the terms of either the GPL or the LGPL, and not to allow others to  
 \* use your version of this file under the terms of the MPL, indicate your  
 \* decision by deleting the provisions above and replace them with the notice  
 \* and other provisions required by the GPL or the LGPL. If you do not delete  
 \* the provisions above, a recipient may use your version of this file under  
 \* the terms of any one of the MPL, the GPL or the LGPL.  
 \*  
 \* \*\*\*\*\* END LICENSE BLOCK \*\*\*\*\* \*/

Network Security Services (NSS)

URL:

<http://www.mozilla.org/projects/security/pki/nss/>

/\* \*\*\*\*\* BEGIN LICENSE BLOCK \*\*\*\*\*

\* Version: MPL 1.1/GPL 2.0/LGPL 2.1

\*

\* The contents of this file are subject to the Mozilla Public License Version

\* 1.1 (the "License"); you may not use this file except in compliance with

\* the License. You may obtain a copy of the License at

\* <http://www.mozilla.org/MPL/>

\*

\* Software distributed under the License is distributed on an "AS IS" basis,

\* WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License

\* for the specific language governing rights and limitations under the

\* License.

\*

\* The Original Code is the Netscape security libraries.

\*

\* The Initial Developer of the Original Code is

\* Netscape Communications Corporation.

\* Portions created by the Initial Developer are Copyright (C) 1994-2000

\* the Initial Developer. All Rights Reserved.

\*

\* Contributor(s):

\*

\* Alternatively, the contents of this file may be used under the terms of

\* either the GNU General Public License Version 2 or later (the "GPL"), or

\* the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),

\* in which case the provisions of the GPL or the LGPL are applicable instead

\* of those above. If you wish to allow use of your version of this file only

\* under the terms of either the GPL or the LGPL, and not to allow others to

\* use your version of this file under the terms of the MPL, indicate your

\* decision by deleting the provisions above and replace them with the notice

\* and other provisions required by the GPL or the LGPL. If you do not delete

\* the provisions above, a recipient may use your version of this file under

\* the terms of any one of the MPL, the GPL or the LGPL.

\*

\* \*\*\*\*\* END LICENSE BLOCK \*\*\*\*\* \*/

open-vcdiff

URL: <https://github.com/google/open-vcdiff>

Apache

License

Version 2.0,

January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE,  
 REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses



granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices

cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence),

contract, or otherwise,  
unless required by applicable law (such as  
deliberate and grossly  
negligent acts) or agreed to in writing, shall  
any Contributor be  
liable to You for damages, including any  
direct, indirect, special,  
incidental, or consequential damages of any  
character arising as a  
result of this License or out of the use or  
inability to use the  
Work (including but not limited to damages for  
loss of goodwill,  
work stoppage, computer failure or  
malfunction, or any and all  
other commercial damages or losses), even if  
such Contributor  
has been advised of the possibility of such  
damages.

9. Accepting Warranty or Additional Liability. While  
redistributing  
the Work or Derivative Works thereof, You may  
choose to offer,  
and charge a fee for, acceptance of support,  
warranty, indemnity,  
or other liability obligations and/or rights  
consistent with this  
License. However, in accepting such  
obligations, You may act only  
on Your own behalf and on Your sole  
responsibility, not on behalf  
of any other Contributor, and only if You agree  
to indemnify,  
defend, and hold each Contributor harmless  
for any liability  
incurred by, or claims asserted against, such  
Contributor by reason  
of your accepting any such warranty or  
additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to  
your work.

To apply the Apache License to your work,  
attach the following  
boilerplate notice, with the fields enclosed by  
brackets "[ ]"  
replaced with your own identifying  
information. (Don't include  
the brackets!) The text should be enclosed in  
the appropriate  
comment syntax for the file format. We also  
recommend that a  
file or class name and description of purpose  
be included on the  
same "printed page" as the copyright notice  
for easier

identification within third-party archives.

Copyright 2008 The open-vcdiff Authors. All  
Rights Reserved.

Licensed under the Apache License, Version 2.0  
(the "License");

you may not use this file except in compliance  
with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in  
writing, software

distributed under the License is distributed on an  
"AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY  
KIND, either express or implied.

See the License for the specific language  
governing permissions and

limitations under the License.

Almost Native Graphics Layer Engine

URL: <http://code.google.com/p/angleproject/>

// Copyright (C) 2002-2013 The ANGLE Project  
Authors.

// All rights reserved.

//

// Redistribution and use in source and binary forms,  
with or without

// modification, are permitted provided that the  
following conditions

// are met:

//

// Redistributions of source code must retain the  
above copyright

// notice, this list of conditions and the following  
disclaimer.

//

// Redistributions in binary form must reproduce  
the above

// copyright notice, this list of conditions and the  
following

// disclaimer in the documentation and/or other  
materials provided

// with the distribution.

//

// Neither the name of TransGaming Inc.,  
Google Inc., 3DLabs Inc.

// Ltd., nor the names of their contributors may  
be used to endorse

// or promote products derived from this  
software without specific

// prior written permission.

//

// THIS SOFTWARE IS PROVIDED BY THE  
COPYRIGHT HOLDERS AND CONTRIBUTORS

```
// "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS
// FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE
// COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT,
// INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING,
// BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES;
// LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
// CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT
// LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN
// ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE
// POSSIBILITY OF SUCH DAMAGE.
```

boringssl  
URL: <https://boringssl.googlesource.com/boringssl>

## LICENSE ISSUES

=====

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact [openssl-core@openssl.org](mailto:openssl-core@openssl.org).

## OpenSSL License

-----

```
/* =====
=====
* Copyright (c) 1998-2011 The OpenSSL Project. All
rights reserved.
*
* Redistribution and use in source and binary forms,
with or without
* modification, are permitted provided that the
following conditions
* are met:
*
* 1. Redistributions of source code must retain the
above copyright
* notice, this list of conditions and the following
disclaimer.
*
* 2. Redistributions in binary form must reproduce
the above copyright
* notice, this list of conditions and the following
```

```
disclaimer in
* the documentation and/or other materials
provided with the
* distribution.
*
* 3. All advertising materials mentioning features or
use of this
* software must display the following
acknowledgment:
* "This product includes software developed by
the OpenSSL Project
* for use in the OpenSSL Toolkit.
(http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL
Project" must not be used to
* endorse or promote products derived from this
software without
* prior written permission. For written
permission, please contact
* openssl-core@openssl.org.
*
* 5. Products derived from this software may not be
called "OpenSSL"
* nor may "OpenSSL" appear in their names
without prior written
* permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must
retain the following
* acknowledgment:
* "This product includes software developed by
the OpenSSL Project
* for use in the OpenSSL Toolkit
(http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL
PROJECT "AS IS" AND ANY
* EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* =====
```

=====

```
*
* This product includes cryptographic software
written by Eric Young
* (eay@cryptsoft.com). This product includes
software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

-----

```
/* Copyright (C) 1995-1998 Eric Young
(eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform
with Netscapes SSL.
*
* This library is free for commercial and non-
commercial use as long as
* the following conditions are aheared to. The
following conditions
* apply to all code found in this distribution, be it the
RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The
SSL documentation
* included with this distribution is covered by the
same copyright terms
* except that the holder is Tim Hudson
(tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any
Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young
should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at
program startup or
* in documentation (online or textual) provided with
the package.
*
* Redistribution and use in source and binary forms,
with or without
* modification, are permitted provided that the
following conditions
* are met:
* 1. Redistributions of source code must retain the
copyright
* notice, this list of conditions and the following
disclaimer.
* 2. Redistributions in binary form must reproduce
the above copyright
* notice, this list of conditions and the following
disclaimer in the
* documentation and/or other materials
```

provided with the distribution.

```
* 3. All advertising materials mentioning features or
use of this software
* must display the following acknowledgement:
* "This product includes cryptographic software
written by
* Eric Young (eay@cryptsoft.com)"
* The word 'cryptographic' can be left out if the
rouines from the library
* being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a
derivative thereof) from
* the apps directory (application code) you must
include an acknowledgement:
* "This product includes software written by Tim
Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG
"AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE
AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any
publically available version or
* derivative of this code cannot be changed. i.e. this
code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

Brotli

URL: <https://github.com/google/brotli>

Apache

License

Version 2.0,

January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE,  
REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative

Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and limitations under the License.

Google Cache Invalidation API  
URL: [https://chromium.googlesource.com/chromium/src/+master/third\\_party/cacheinvalidation/README.chromium](https://chromium.googlesource.com/chromium/src/+master/third_party/cacheinvalidation/README.chromium)

Apache  
License  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions

for use, reproduction,  
and distribution as defined by Sections 1  
through 9 of this document.

"Licensor" shall mean the copyright owner or  
entity authorized by  
the copyright owner that is granting the  
License.

"Legal Entity" shall mean the union of the  
acting entity and all  
other entities that control, are controlled by, or  
are under common  
control with that entity. For the purposes of  
this definition,  
"control" means (i) the power, direct or  
indirect, to cause the  
direction or management of such entity,  
whether by contract or  
otherwise, or (ii) ownership of fifty percent  
(50%) or more of the  
outstanding shares, or (iii) beneficial  
ownership of such entity.

"You" (or "Your") shall mean an individual or  
Legal Entity  
exercising permissions granted by this License.

"Source" form shall mean the preferred form  
for making modifications,  
including but not limited to software source  
code, documentation  
source, and configuration files.

"Object" form shall mean any form resulting  
from mechanical  
transformation or translation of a Source form,  
including but  
not limited to compiled object code,  
generated documentation,  
and conversions to other media types.

"Work" shall mean the work of authorship,  
whether in Source or  
Object form, made available under the  
License, as indicated by a  
copyright notice that is included in or attached  
to the work  
(an example is provided in the Appendix  
below).

"Derivative Works" shall mean any work,  
whether in Source or Object  
form, that is based on (or derived from) the  
Work and for which the  
editorial revisions, annotations, elaborations,  
or other modifications  
represent, as a whole, an original work of  
authorship. For the purposes  
of this License, Derivative Works shall not

include works that remain  
separable from, or merely link (or bind by  
name) to the interfaces of,  
the Work and Derivative Works thereof.

"Contribution" shall mean any work of  
authorship, including  
the original version of the Work and any  
modifications or additions  
to that Work or Derivative Works thereof, that  
is intentionally  
submitted to Licensor for inclusion in the Work  
by the copyright owner  
or by an individual or Legal Entity authorized  
to submit on behalf of  
the copyright owner. For the purposes of this  
definition, "submitted"  
means any form of electronic, verbal, or  
written communication sent  
to the Licensor or its representatives, including  
but not limited to  
communication on electronic mailing lists,  
source code control systems,  
and issue tracking systems that are managed  
by, or on behalf of, the  
Licensor for the purpose of discussing and  
improving the Work, but  
excluding communication that is  
conspicuously marked or otherwise  
designated in writing by the copyright owner  
as "Not a Contribution."

"Contributor" shall mean Licensor and any  
individual or Legal Entity  
on behalf of whom a Contribution has been  
received by Licensor and  
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms  
and conditions of  
this License, each Contributor hereby grants to  
You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-  
free, irrevocable  
copyright license to reproduce, prepare  
Derivative Works of,  
publicly display, publicly perform, sublicense,  
and distribute the  
Work and such Derivative Works in Source or  
Object form.

3. Grant of Patent License. Subject to the terms  
and conditions of  
this License, each Contributor hereby grants to  
You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-  
free, irrevocable  
(except as stated in this section) patent license  
to make, have made,  
use, offer to sell, sell, import, and otherwise



transfer the Work,  
where such license applies only to those  
patent claims licensable  
by such Contributor that are necessarily  
infringed by their  
Contribution(s) alone or by combination of  
their Contribution(s)  
with the Work to which such Contribution(s)  
was submitted. If You  
institute patent litigation against any entity  
(including a  
cross-claim or counterclaim in a lawsuit)  
alleging that the Work  
or a Contribution incorporated within the Work  
constitutes direct  
or contributory patent infringement, then any  
patent licenses  
granted to You under this License for that  
Work shall terminate  
as of the date such litigation is filed.

4. Redistribution. You may reproduce and  
distribute copies of the  
Work or Derivative Works thereof in any  
medium, with or without  
modifications, and in Source or Object form,  
provided that You  
meet the following conditions:

(a) You must give any other recipients of the  
Work or  
Derivative Works a copy of this License;  
and

(b) You must cause any modified files to carry  
prominent notices  
stating that You changed the files; and

(c) You must retain, in the Source form of any  
Derivative Works  
that You distribute, all copyright, patent,  
trademark, and  
attribution notices from the Source form  
of the Work,  
excluding those notices that do not  
pertain to any part of  
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as  
part of its  
distribution, then any Derivative Works  
that You distribute must  
include a readable copy of the  
attribution notices contained  
within such NOTICE file, excluding those  
notices that do not  
pertain to any part of the Derivative  
Works, in at least one  
of the following places: within a NOTICE  
text file distributed

as part of the Derivative Works; within  
the Source form or  
documentation, if provided along with  
the Derivative Works; or,  
within a display generated by the  
Derivative Works, if and  
wherever such third-party notices  
normally appear. The contents  
of the NOTICE file are for informational  
purposes only and  
do not modify the License. You may add  
Your own attribution  
notices within Derivative Works that You  
distribute, alongside  
or as an addendum to the NOTICE text  
from the Work, provided  
that such additional attribution notices  
cannot be construed  
as modifying the License.

You may add Your own copyright statement to  
Your modifications and  
may provide additional or different license  
terms and conditions  
for use, reproduction, or distribution of Your  
modifications, or  
for any such Derivative Works as a whole,  
provided Your use,  
reproduction, and distribution of the Work  
otherwise complies with  
the conditions stated in this License.

5. Submission of Contributions. Unless You  
explicitly state otherwise,  
any Contribution intentionally submitted for  
inclusion in the Work  
by You to the Licensor shall be under the  
terms and conditions of  
this License, without any additional terms or  
conditions.

Notwithstanding the above, nothing herein  
shall supersede or modify  
the terms of any separate license agreement  
you may have executed  
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant  
permission to use the trade  
names, trademarks, service marks, or product  
names of the Licensor,  
except as required for reasonable and  
customary use in describing the  
origin of the Work and reproducing the  
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by  
applicable law or  
agreed to in writing, Licensor provides the  
Work (and each  
Contributor provides its Contributions) on an

"AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF  
ANY KIND, either express or  
implied, including, without limitation, any  
warranties or conditions  
of TITLE, NON-INFRINGEMENT,  
MERCHANTABILITY, or FITNESS FOR A  
PARTICULAR PURPOSE. You are solely  
responsible for determining the  
appropriateness of using or redistributing the  
Work and assume any  
risks associated with Your exercise of  
permissions under this License.

8. Limitation of Liability. In no event and under no  
legal theory,  
whether in tort (including negligence),  
contract, or otherwise,  
unless required by applicable law (such as  
deliberate and grossly  
negligent acts) or agreed to in writing, shall  
any Contributor be  
liable to You for damages, including any  
direct, indirect, special,  
incidental, or consequential damages of any  
character arising as a  
result of this License or out of the use or  
inability to use the  
Work (including but not limited to damages for  
loss of goodwill,  
work stoppage, computer failure or  
malfunction, or any and all  
other commercial damages or losses), even if  
such Contributor  
has been advised of the possibility of such  
damages.

9. Accepting Warranty or Additional Liability. While  
redistributing  
the Work or Derivative Works thereof, You may  
choose to offer,  
and charge a fee for, acceptance of support,  
warranty, indemnity,  
or other liability obligations and/or rights  
consistent with this  
License. However, in accepting such  
obligations, You may act only  
on Your own behalf and on Your sole  
responsibility, not on behalf  
of any other Contributor, and only if You agree  
to indemnify,  
defend, and hold each Contributor harmless  
for any liability  
incurred by, or claims asserted against, such  
Contributor by reason  
of your accepting any such warranty or  
additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to  
your work.

To apply the Apache License to your work,  
attach the following  
boilerplate notice, with the fields enclosed by  
brackets "[ ]"  
replaced with your own identifying  
information. (Don't include  
the brackets!) The text should be enclosed in  
the appropriate  
comment syntax for the file format. We also  
recommend that a  
file or class name and description of purpose  
be included on the  
same "printed page" as the copyright notice  
for easier  
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0  
(the "License");  
you may not use this file except in compliance  
with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in  
writing, software  
distributed under the License is distributed on an  
"AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY  
KIND, either express or implied.  
See the License for the specific language  
governing permissions and  
limitations under the License.

Crashpad  
URL: <https://crashpad.chromium.org/>

Apache  
License  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE,  
REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions  
for use, reproduction,  
and distribution as defined by Sections 1  
through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the

Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

drawElements Quality Program  
URL: <https://source.android.com/devices/graphics/te sting.html>

Apache  
License  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE,  
REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational

purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2014 The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

dom-distiller-js  
URL: <https://github.com/chromium/dom-distiller>

Copyright 2014 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.



THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Parts of the following directories are available under Apache v2.0

src/de  
Copyright (c) 2009–2011 Christian Kohlschütter

third\_party/gwt\_exporter  
Copyright 2007 Timepedia.org

third\_party/gwt-2.5.1  
Copyright 2008 Google

java/org/chromium/distiller/dev  
Copyright 2008 Google

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting

entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has

been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and You must cause any modified files to carry prominent notices stating that You changed the files; and You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own

attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While

redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

Expat XML Parser

URL: <http://sourceforge.net/projects/expat/>

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd  
and Clark

Cooper

Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006  
Expat maintainers.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

fips181

URL: <http://www.adel.nursat.kz/apg/>

Copyright (c) 1999, 2000, 2001, 2002  
Adel I. Mirzazhanov. All rights reserved

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- 1.Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 2.Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3.The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

flac

URL: <http://sourceforge.net/projects/flac/files/flac-src/flac-1.2.1-src/flac-1.2.1.tar.gz/download>

Copyright (C)

2000,2001,2002,2003,2004,2005,2006,2007 Josh Coalson

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions

are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the Xiph.org Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

harfbuzz-ng  
URL: <http://harfbuzz.org>

HarfBuzz is licensed under the so-called "Old MIT" license. Details follow.  
For parts of HarfBuzz that are licensed under different licenses see individual files names COPYING in subdirectories where applicable.

Copyright © 2010,2011,2012 Google, Inc.  
Copyright © 2012 Mozilla Foundation  
Copyright © 2011 Codethink Limited  
Copyright © 2008,2010 Nokia Corporation and/or its subsidiary(-ies)  
Copyright © 2009 Keith Stribley  
Copyright © 2009 Martin Hosken and SIL

International  
Copyright © 2007 Chris Wilson  
Copyright © 2006 Behdad Esfahbod  
Copyright © 2005 David Turner  
Copyright © 2004,2007,2008,2009,2010 Red Hat, Inc.  
Copyright © 1998-2004 David Turner and Werner Lemberg

For full copyright notices consult the individual files in the package.

Permission is hereby granted, without written agreement and without license or royalty fees, to use, copy, modify, and distribute this software and its documentation for any purpose, provided that the above copyright notice and the following two paragraphs appear in all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

iccjpeg  
URL: <http://www.ijg.org>

LICENSE extracted from IJG's jpeg distribution:

-----

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in

your documentation that  
you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.

All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are

assumed by the product vendor.

icu

URL: <http://site.icu-project.org/>

ICU License - ICU 1.8.1 and later

## COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2014 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

-----  
-----  
All trademarks and registered trademarks  
mentioned herein are the  
property of their respective owners.  
-----  
-----

### Third-Party Software Licenses

This section contains third-party software notices  
and/or additional  
terms for licensed third-party software  
components included within ICU  
libraries.

#### 1. Unicode Data Files and Software

### COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2014 Unicode, Inc. All rights  
reserved.  
Distributed under the Terms of Use in  
<http://www.unicode.org/copyright.html>.

Permission is hereby granted, free of charge, to any  
person obtaining  
a copy of the Unicode data files and any associated  
documentation  
(the "Data Files") or Unicode software and any  
associated documentation  
(the "Software") to deal in the Data Files or Software  
without restriction, including without limitation the  
rights to use,  
copy, modify, merge, publish, distribute, and/or sell  
copies of  
the Data Files or Software, and to permit persons to  
whom the Data Files  
or Software are furnished to do so, provided that  
(a) this copyright and permission notice appear with  
all copies  
of the Data Files or Software,  
(b) this copyright and permission notice appear in  
associated  
documentation, and  
(c) there is clear notice in each modified Data File or  
in the Software  
as well as in the documentation associated with the  
Data File(s) or  
Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED  
"AS IS", WITHOUT WARRANTY OF  
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT  
NOT LIMITED TO THE  
WARRANTIES OF MERCHANTABILITY, FITNESS FOR  
A PARTICULAR PURPOSE AND  
NONINFRINGEMENT OF THIRD PARTY RIGHTS.  
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR

HOLDERS INCLUDED IN THIS  
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY  
SPECIAL INDIRECT OR CONSEQUENTIAL  
DAMAGES, OR ANY DAMAGES WHATSOEVER  
RESULTING FROM LOSS OF USE,  
DATA OR PROFITS, WHETHER IN AN ACTION OF  
CONTRACT, NEGLIGENCE OR OTHER  
TORTIOUS ACTION, ARISING OUT OF OR IN  
CONNECTION WITH THE USE OR  
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a  
copyright holder  
shall not be used in advertising or otherwise to  
promote the sale,  
use or other dealings in these Data Files or Software  
without prior  
written authorization of the copyright holder.

#### 2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

# The Google Chrome software developed by  
Google is licensed under the BSD li  
cense. Other software included in this distribution is  
provided under other licen  
ses, as set forth below.

#  
# The BSD License  
# [http://opensource.org/licenses/bsd-](http://opensource.org/licenses/bsd-license.php)  
license.php  
# Copyright (C) 2006-2008, Google Inc.  
#  
# All rights reserved.  
#  
# Redistribution and use in source and binary  
forms, with or without modifi  
cation, are permitted provided that the following  
conditions are met:  
#  
# Redistributions of source code must retain  
the above copyright notice, th  
is list of conditions and the following disclaimer.  
# Redistributions in binary form must  
reproduce the above copyright notice,  
this list of conditions and the following disclaimer in  
the documentation and/or  
other materials provided with the distribution.  
# Neither the name of Google Inc. nor the  
names of its contributors may be  
used to endorse or promote products derived from  
this software without specific  
prior written permission.

#  
#  
# THIS SOFTWARE IS PROVIDED BY THE  
COPYRIGHT HOLDERS AND CONTRIBUTORS "AS I  
S" AND ANY EXPRESS OR IMPLIED WARRANTIES,  
INCLUDING, BUT NOT LIMITED TO, THE IMPL  
IED WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
#
#
# The word list in cjdickt.txt are generated by
combining three word lists listed
# below with further processing for
compound word breaking. The frequency lists
generated
# with an iterative training against Google
web corpora.
#
# * Libtabe (Chinese)
# -
https://sourceforge.net/project/?group_id=1519
# - Its license terms and conditions are
shown below.
#
# * IPADIC (Japanese)
# - http://chasen.aist-
nara.ac.jp/chasen/distribution.html
# - Its license terms and conditions are
shown below.
#
# -----COPYING.libtabe -----
BEGIN-----
#
# /*
# * Copyright (c) 1999 TaBE Project.
# * Copyright (c) 1999 Pai-Hsiang Hsiao.
# * All rights reserved.
# *
# * Redistribution and use in source and
binary forms, with or without
# * modification, are permitted provided
that the following conditions
# * are met:
# *
# * . Redistributions of source code must
retain the above copyright
# * notice, this list of conditions and the
following disclaimer.
# * . Redistributions in binary form must
reproduce the above copyright
# * notice, this list of conditions and the
following disclaimer in
# * the documentation and/or other
```

```
materials provided with the
# * distribution.
# * . Neither the name of the TaBE Project
nor the names of its
# * contributors may be used to endorse
or promote products derived
# * from this software without specific
prior written permission.
# *
# * THIS SOFTWARE IS PROVIDED BY THE
COPYRIGHT HOLDERS AND CONTRIBUTORS
# * "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT
# * LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS
# * FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE
# * REGENTS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT,
# * INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES
# * (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR
# * SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION)
# * HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT,
# * STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE)
# * ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED
# * OF THE POSSIBILITY OF SUCH
DAMAGE.
# */
#
# /*
# * Copyright (c) 1999 Computer Systems
and Communication Lab,
# * Institute of
Information Science, Academia Sinica.
# * All rights reserved.
# *
# * Redistribution and use in source and
binary forms, with or without
# * modification, are permitted provided
that the following conditions
# * are met:
# *
# * . Redistributions of source code must
retain the above copyright
# * notice, this list of conditions and the
following disclaimer.
# * . Redistributions in binary form must
reproduce the above copyright
# * notice, this list of conditions and the
following disclaimer in
# * the documentation and/or other
materials provided with the
# * distribution.
# * . Neither the name of the Computer
```

Systems and Communication Lab

# \* nor the names of its contributors may be used to endorse or

# \* promote products derived from this software without specific

# \* prior written permission.

# \*

# \* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

# \* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

# \* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS

# \* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE

# \* REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,

# \* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES

# \* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

# \* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

# \* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,

# \* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

# \* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED

# \* OF THE POSSIBILITY OF SUCH DAMAGE.

# \*/

#

# Copyright 1996 Chih-Hao Tsai @ Beckman Institute, University of Illinois

# c-tsai4@uiuc.edu

<http://casper.beckman.uiuc.edu/~c-tsai4>

#

# -----COPYING.libtabe-----END

-----

-

#

#

# -----COPYING.ipadic-----BEGIN

N-----

--

#

# Copyright 2000, 2001, 2002, 2003 Nara Institute of Science

# and Technology. All Rights Reserved.

#

# Use, reproduction, and distribution of this software is permitted.

# Any copy of this software, whether in its original form or modified,

# must include both the above copyright notice and the following

# paragraphs.

#

# Nara Institute of Science and Technology

(NAIST),

# the copyright holders, disclaims all warranties with regard to this

# software, including all implied warranties of merchantability and

# fitness, in no event shall NAIST be liable for

# any special, indirect or consequential damages or any damages

# whatsoever resulting from loss of use, data or profits, whether in an

# action of contract, negligence or other tortious action, arising out

# of or in connection with the use or performance of this software.

#

# A large portion of the dictionary entries

# originate from ICOT Free Software. The following conditions for ICOT

# Free Software applies to the current dictionary as well.

#

# Each User may also freely distribute the Program, whether in its

# original form or modified, to any third party or parties, PROVIDED

# that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear

# on, or be attached to, the Program, which is distributed substantially

# in the same form as set out herein and that such intended

# distribution, if actually made, will neither violate or otherwise

# contravene any of the laws and regulations of the countries having

# jurisdiction over the User or the intended distribution itself.

#

# NO WARRANTY

#

# The program was produced on an experimental basis in the course of the

# research and development conducted during the project and is provided

# to users as so produced on an experimental basis. Accordingly, the

# program is provided without any warranty whatsoever, whether express,

# implied, statutory or otherwise. The term "warranty" used herein

# includes, but is not limited to, any warranty of the quality,

# performance, merchantability and fitness for a particular purpose of

# the program and the nonexistence of any infringement or violation of

# any right of any third party.

#

# Each user of the program will agree and understand, and be deemed to



```
# have agreed and understood, that there is
no warranty whatsoever for
# the program and, accordingly, the entire
risk arising from or
# otherwise connected with the program is
assumed by the user.
#
# Therefore, neither ICOT, the copyright
holder, or any other
# organization that participated in or was
otherwise related to the
# development of the program and their
respective officials, directors,
# officers and other employees shall be held
liable for any and all
# damages, including, without limitation,
general, special, incidental
# and consequential damages, arising out of
or otherwise in connection
# with the use or inability to use the program
or any product, material
# or result produced or otherwise obtained
by using the program,
# regardless of whether they have been
advised of, or otherwise had
# knowledge of, the possibility of such
damages at any time during the
# project or thereafter. Each user will be
deemed to have agreed to the
# foregoing by his or her commencement of
use of the program. The term
# "use" as used herein includes, but is not
limited to, the use,
# modification, copying and distribution of
the program and the
# production of secondary products from the
program.
#
# In the case where the program, whether in
its original form or
# modified, was distributed or delivered to or
received by a user from
# any person, organization or entity other
than ICOT, unless it makes or
# grants independently of ICOT any specific
warranty to the user in
# writing, such person, organization or entity,
will also be exempted
# from and not be held liable to the user for
any such damages as noted
# above as far as the program is concerned.
#
# -----COPYING.ipadic-----END-----
```

### 3. Lao Word Break Dictionary Data (laodict.txt)

```
# Copyright (c) 2013 International Business
Machines Corporation
# and others. All Rights Reserved.
```

```
#
# Project: http://code.google.com/p/lao-
dictionary/
# Dictionary: http://lao-
dictionary.googlecode.com/git/Lao-Dictionary.txt
# License: http://lao-dictionary.googleco
de.com/git/Lao-Dictionary-LICEN
SE.txt
# (copied below)
#
# This file is derived from the above
dictionary, with slight modifications
.
# -----
-----
# Copyright (C) 2013 Brian Eugene Wilson,
Robert Martin Campbell.
# All rights reserved.
#
# Redistribution and use in source and binary
forms, with or without modifi
cation,
# are permitted provided that the following
conditions are met:
#
# Redistributions of source code
must retain the above copyright no
tice, this
# list of conditions and the
following disclaimer. Redistributions
in binary
# form must reproduce the above
copyright notice, this list of cond
itions and
# the following disclaimer in the
documentation and/or other materi
als
# provided with the distribution.
#
# THIS SOFTWARE IS PROVIDED BY THE
COPYRIGHT HOLDERS AND CONTRIBUTORS "AS I
S" AND
# ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMP
LIED
# WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIA
BLE FOR
# ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DA
MAGES
# (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVIC
ES;
# LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED A
ND ON
```

```
# ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT
# (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF
THIS
# SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

```
# -----
-----
-----
```

#### 4. Burmese Word Break Dictionary Data (burmesedict.txt)

```
# Copyright (c) 2014 International Business
Machines Corporation
# and others. All Rights Reserved.
```

```
#
# This list is part of a project hosted at:
# github.com/kanyawtech/myanmar-
karen-word-lists
```

```
#
# -----
-----
-----
```

```
# Copyright (c) 2013, LeRoy Benjamin Sharon
# All rights reserved.
```

```
#
# Redistribution and use in source and binary
forms, with or without modifi
cation,
# are permitted provided that the following
conditions are met:
```

```
#
# Redistributions of source code must
retain the above copyright notice,
this
# list of conditions and the following
disclaimer.
```

```
#
# Redistributions in binary form must
reproduce the above copyright notic
e, this
```

```
# list of conditions and the following
disclaimer in the documentation an
d/or
```

```
# other materials provided with the
distribution.
```

```
#
# Neither the name Myanmar Karen Word
Lists, nor the names of its
# contributors may be used to endorse or
promote products derived from
# this software without specific prior
written permission.
```

```
#
# THIS SOFTWARE IS PROVIDED BY THE
COPYRIGHT HOLDERS AND CONTRIBUTORS "AS I
S" AND
```

```
# ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMP
LIED
```

```
# WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE
```

```
# DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIA
BLE FOR
```

```
# ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DA
MAGES
```

```
# (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVIC
ES;
```

```
# LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED A
ND ON
```

```
# ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT
```

```
# (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF
THIS
```

```
# SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

```
# -----
-----
-----
```

#### 5. Time Zone Database

ICU uses the public domain data and code derived from Time Zone Database

for its time zone support. The ownership of the TZ database is explained

in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

#### 7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF

document. Rather it is a pre-existing and regularly updated work

that is in the public domain, and is intended to remain in the public

domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply

to the TZ Database or contributions that individuals make to it.

Should any claims be made and substantiated against the TZ Database,

the organization that is providing the IANA Considerations defined in

this RFC, under the memorandum of understanding with the IETF,

currently ICANN, may act in accordance with all competent court

orders. No ownership claims will be made by ICANN or the IETF Trust

on the database or the code. Any person making a contribution to the database or code waives all rights to future claims in that contribution or in the TZ Database.

google-jstemplate  
URL: <http://code.google.com/p/google-jstemplate/>

Apache  
License  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While

redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

Khronos header files

URL: <http://www.khronos.org/registry>

Copyright (c) 2007–2010 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and/or associated documentation files (the "Materials"), to deal in the Materials without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Materials, and to permit persons to whom the Materials are furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

SGI FREE SOFTWARE LICENSE B (Version 2.0, Sept. 18, 2008)

Copyright (C) 1992 Silicon Graphics, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice including the dates of first

publication and either this permission notice or a reference to <http://oss.sgi.com/projects/FreeB/> shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL SILICON GRAPHICS, INC. BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Silicon Graphics, Inc. shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from Silicon Graphics, Inc.

LevelDB: A Fast Persistent Key-Value Store  
URL: <https://github.com/google/leveldb.git>

Copyright (c) 2011 The LevelDB Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The library to input, validate, and display addresses.

URL: <https://github.com/googlei18n/libaddressinput>

Apache  
License  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed

by, or on behalf of, the  
Licensor for the purpose of discussing and  
improving the Work, but  
excluding communication that is  
conspicuously marked or otherwise  
designated in writing by the copyright owner  
as "Not a Contribution."

"Contributor" shall mean Licensor and any  
individual or Legal Entity  
on behalf of whom a Contribution has been  
received by Licensor and  
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms  
and conditions of  
this License, each Contributor hereby grants to  
You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-  
free, irrevocable  
copyright license to reproduce, prepare  
Derivative Works of,  
publicly display, publicly perform, sublicense,  
and distribute the  
Work and such Derivative Works in Source or  
Object form.

3. Grant of Patent License. Subject to the terms  
and conditions of  
this License, each Contributor hereby grants to  
You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-  
free, irrevocable  
(except as stated in this section) patent license  
to make, have made,  
use, offer to sell, sell, import, and otherwise  
transfer the Work,  
where such license applies only to those  
patent claims licensable  
by such Contributor that are necessarily  
infringed by their  
Contribution(s) alone or by combination of  
their Contribution(s)  
with the Work to which such Contribution(s)  
was submitted. If You  
institute patent litigation against any entity  
(including a  
cross-claim or counterclaim in a lawsuit)  
alleging that the Work  
or a Contribution incorporated within the Work  
constitutes direct  
or contributory patent infringement, then any  
patent licenses  
granted to You under this License for that  
Work shall terminate  
as of the date such litigation is filed.

4. Redistribution. You may reproduce and  
distribute copies of the  
Work or Derivative Works thereof in any

medium, with or without  
modifications, and in Source or Object form,  
provided that You  
meet the following conditions:

(a) You must give any other recipients of the  
Work or  
Derivative Works a copy of this License;  
and

(b) You must cause any modified files to carry  
prominent notices  
stating that You changed the files; and

(c) You must retain, in the Source form of any  
Derivative Works  
that You distribute, all copyright, patent,  
trademark, and  
attribution notices from the Source form  
of the Work,  
excluding those notices that do not  
pertain to any part of  
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as  
part of its  
distribution, then any Derivative Works  
that You distribute must  
include a readable copy of the  
attribution notices contained  
within such NOTICE file, excluding those  
notices that do not  
pertain to any part of the Derivative  
Works, in at least one  
of the following places: within a NOTICE  
text file distributed  
as part of the Derivative Works; within  
the Source form or  
documentation, if provided along with  
the Derivative Works; or,  
within a display generated by the  
Derivative Works, if and  
wherever such third-party notices  
normally appear. The contents  
of the NOTICE file are for informational  
purposes only and  
do not modify the License. You may add  
Your own attribution  
notices within Derivative Works that You  
distribute, alongside  
or as an addendum to the NOTICE text  
from the Work, provided  
that such additional attribution notices  
cannot be construed  
as modifying the License.

You may add Your own copyright statement to  
Your modifications and  
may provide additional or different license  
terms and conditions



for use, reproduction, or distribution of Your modifications, or  
for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance

with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

libjingle

URL: <http://www.webrtc.org>

Copyright (c) 2013, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY

WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libjpeg

URL: <http://www.iijg.org/>

(Copied from the README.)

-----  
-----  
The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.

All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the

Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the

resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

jconfig.h is distributed under the MPL 1.1/GPL 2.0/LGPL 2.1 tri-license.

jmorecfg.h contains modifications, which are distributed under the Netscape Public License.

libjpeg-turbo  
URL: <http://sourceforge.net/projects/libjpeg-turbo/>

libjpeg-turbo is licensed under a non-restrictive, BSD-style license (see README.) The TurboJPEG/OSS wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

International Phone Number Library  
URL:  
<http://libphonenumber.googlecode.com/svn/trunk/>

Copyright (C) 2011 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

libpng  
URL: <http://libpng.org/>

This copy of the libpng notices is provided for your convenience. In case of any discrepancy between this copy and the notices in the file png.h that is included in the libpng distribution, the latter shall prevail.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following this sentence.

pngusr.h is distributed under the MPL 1.1/GPL 2.0/LGPL 2.1 tri-license.

This code is released under the libpng license.

libpng versions 1.0.7, July 1, 2000, through 1.2.54, November 12, 2015, are

Copyright (c) 2000–2002, 2004, 2006–2015 Glenn Randers-Pehrson, are derived from libpng-1.0.6, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:

Simon-Pierre Cadieux  
Eric S. Raymond  
Cosmin Truta  
Gilles Vollant

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998–2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane  
Glenn Randers-Pehrson  
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996–1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler  
Kevin Bracey  
Sam Bushell  
Magnus Holmgren  
Greg Roelofs  
Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are

Copyright (c) 1995–1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger  
Dave Martindale  
Guy Eric Schalnat  
Paul Schmidt  
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.
2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.
3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

END OF COPYRIGHT NOTICE, DISCLAIMER, and LICENSE.

A "png\_get\_copyright" function is available, for convenient use in "about"

boxes and the like:

```
printf("%s", png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png.jpg" and "pngbar.jpg (88x31)" and "pngnow.png.jpg" (98x31).

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a certification mark of the Open Source Initiative. OSI has not addressed the additional disclaimers inserted at version 1.0.7.

Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
November 12, 2015

libsrtp  
URL: <https://github.com/cisco/libsrtp>

```
/*
 *
 * Copyright (c) 2001–2006 Cisco Systems, Inc.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms,
 * with or without
 * modification, are permitted provided that the
 * following conditions
 * are met:
 *
 * Redistributions of source code must retain the
 * above copyright
 * notice, this list of conditions and the following
 * disclaimer.
 *
 * Redistributions in binary form must reproduce
 * the above
 * copyright notice, this list of conditions and the
 * following
 * disclaimer in the documentation and/or other
 * materials provided
 * with the distribution.
 *
 * Neither the name of the Cisco Systems, Inc. nor
 * the names of its
 * contributors may be used to endorse or
 * promote products derived
 * from this software without specific prior written
 * permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE
 * COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS
 * FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
```

IN NO EVENT SHALL THE  
 \* COPYRIGHT HOLDERS OR CONTRIBUTORS BE  
 LIABLE FOR ANY DIRECT,  
 \* INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,  
 OR CONSEQUENTIAL DAMAGES  
 \* (INCLUDING, BUT NOT LIMITED TO,  
 PROCUREMENT OF SUBSTITUTE GOODS OR  
 \* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR  
 BUSINESS INTERRUPTION)  
 \* HOWEVER CAUSED AND ON ANY THEORY OF  
 LIABILITY, WHETHER IN CONTRACT,  
 \* STRICT LIABILITY, OR TORT (INCLUDING  
 NEGLIGENCE OR OTHERWISE)  
 \* ARISING IN ANY WAY OUT OF THE USE OF THIS  
 SOFTWARE, EVEN IF ADVISED  
 \* OF THE POSSIBILITY OF SUCH DAMAGE.  
 \*  
 \*/

libusbx  
 URL: <http://libusb.org>

## GNU LESSER GENERAL PUBLIC LICENSE Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation,  
 Inc.

51 Franklin Street, Fifth Floor, Boston, MA  
 02110-1301 USA

Everyone is permitted to copy and distribute  
 verbatim copies  
 of this license document, but changing it is not  
 allowed.

[This is the first released version of the Lesser GPL. It  
 also counts  
 as the successor of the GNU Library Public License,  
 version 2, hence  
 the version number 2.1.]

### Preamble

The licenses for most software are designed to take  
 away your  
 freedom to share and change it. By contrast, the  
 GNU General Public  
 Licenses are intended to guarantee your freedom to  
 share and change  
 free software--to make sure the software is free for  
 all its users.

This license, the Lesser General Public License,  
 applies to some  
 specially designated software packages--typically  
 libraries--of the  
 Free Software Foundation and other authors who  
 decide to use it. You  
 can use it too, but we suggest you first think carefully  
 about whether  
 this license or the ordinary General Public License is

the better  
 strategy to use in any particular case, based on the  
 explanations below.

When we speak of free software, we are referring to  
 freedom of use,  
 not price. Our General Public Licenses are designed  
 to make sure that  
 you have the freedom to distribute copies of free  
 software (and charge  
 for this service if you wish); that you receive source  
 code or can get  
 it if you want it; that you can change the software and  
 use pieces of  
 it in new free programs; and that you are informed  
 that you can do  
 these things.

To protect your rights, we need to make restrictions  
 that forbid  
 distributors to deny you these rights or to ask you to  
 surrender these  
 rights. These restrictions translate to certain  
 responsibilities for  
 you if you distribute copies of the library or if you  
 modify it.

For example, if you distribute copies of the library,  
 whether gratis  
 or for a fee, you must give the recipients all the rights  
 that we gave  
 you. You must make sure that they, too, receive or  
 can get the source  
 code. If you link other code with the library, you  
 must provide  
 complete object files to the recipients, so that they  
 can relink them  
 with the library after making changes to the library  
 and recompiling  
 it. And you must show them these terms so they  
 know their rights.

We protect your rights with a two-step method: (1)  
 we copyright the  
 library, and (2) we offer you this license, which gives  
 you legal  
 permission to copy, distribute and/or modify the  
 library.

To protect each distributor, we want to make it very  
 clear that  
 there is no warranty for the free library. Also, if the  
 library is  
 modified by someone else and passed on, the  
 recipients should know  
 that what they have is not the original version, so that  
 the original  
 author's reputation will not be affected by problems  
 that might be  
 introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is

that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software

library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and

copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees



extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the

terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING

THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public

License along with this library; if not, write to the Free Software

Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the

library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

libvpx

URL: <http://www.webmproject.org>

Copyright (c) 2010, The WebM Project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are

met:

\* Redistributions of source code must retain the

above copyright

notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in

the documentation and/or other materials provided with the

distribution.

\* Neither the name of Google, nor the WebM Project, nor the names

of its contributors may be used to endorse or promote products

derived from this software without specific prior written

permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO

EVENT SHALL THE COPYRIGHT

HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY

DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE

GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT,

STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING

IN ANY WAY OUT OF THE USE

OF THIS SOFTWARE, EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

WebP image encoder/decoder

URL: <http://developers.google.com/speed/webp>

Copyright (c) 2010, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are

met:

\* Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### Additional IP Rights Grant (Patents)

-----

"These implementations" means the copyrightable works that implement the WebM codecs distributed by Google as part of the WebM Project.

Google hereby grants to you a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, transfer, and otherwise run, modify and propagate the contents of these implementations of WebM, where such license applies only to those patent claims, both currently owned by Google and acquired in the future, licensable by Google that are necessarily infringed by these implementations of WebM. This grant does not include claims that would be infringed only as a consequence of

further modification of these implementations. If you or your agent or exclusive licensee institute or order or agree to the institution of patent litigation or any other patent enforcement activity against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that any of these implementations of WebM or any code incorporated within any of these implementations of WebM constitute direct or contributory patent infringement, or inducement of patent infringement, then any patent rights granted to you under this License for these implementations of WebM shall terminate as of the date such litigation is filed.

libxml

URL: <http://xmlsoft.org>

Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar licence but with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

libxslt  
URL: <http://xmlsoft.org/XSLT>

Licence for libxslt except libexslt

Copyright (C) 2001-2002 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

Licence for libexslt

Copyright (C) 2001-2002 Thomas Broyer, Charlie Bozeman and Daniel Veillard.  
All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without

limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the authors shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

libyuv  
URL: <http://code.google.com/p/libyuv/>

Copyright 2011 The LibYuv Project Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google nor the names of its contributors may

be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

linux-syscall-support

URL: <http://code.google.com/p/linux-syscall-support/>

```
// Copyright 2015 The Chromium Authors. All rights reserved.
//
// Redistribution and use in source and binary forms,
// with or without
// modification, are permitted provided that the
// following conditions are
// met:
//
// * Redistributions of source code must retain
// the above copyright
// notice, this list of conditions and the following
// disclaimer.
// * Redistributions in binary form must reproduce
// the above
// copyright notice, this list of conditions and the
// following disclaimer
// in the documentation and/or other materials
// provided with the
// distribution.
// * Neither the name of Google Inc. nor the
// names of its
// contributors may be used to endorse or promote
// products derived from
// this software without specific prior written
// permission.
//
// THIS SOFTWARE IS PROVIDED BY THE
// COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
// "AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY
// DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
// DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE
// GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS
// INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT,
// STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE)
// ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE
// POSSIBILITY OF SUCH DAMAGE.
```

LZ4 - Extremely fast compression

URL: <https://code.google.com/p/lz4/>

LZ4 Library

Copyright (c) 2011-2014, Yann Collet

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING



IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

LZMA SDK

URL: <http://www.7-zip.org/sdk.html>

LZMA SDK is placed in the public domain.

mesa

URL: <http://www.mesa3d.org/>

The default Mesa license is as follows:

Copyright (C) 1999-2007 Brian Paul All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL BRIAN PAUL BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Some parts of Mesa are copyrighted under the GNU LGPL. See the Mesa/docs/COPYRIGHT file for details.

The following is the standard GNU copyright file.

-----  
-----

GNU LIBRARY GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.  
675 Mass Ave, Cambridge,  
MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

## Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must

provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application

program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

#### GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the

Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a

portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of

definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise

permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted

interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY

KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute

it and/or

modify it under the terms of the GNU Library  
General Public

License as published by the Free Software  
Foundation; either

version 2 of the License, or (at your option) any  
later version.

This library is distributed in the hope that it will  
be useful,

but WITHOUT ANY WARRANTY; without even the  
implied warranty of

MERCHANTABILITY or FITNESS FOR A  
PARTICULAR PURPOSE. See the GNU

Library General Public License for more details.

You should have received a copy of the GNU  
Library General Public

License along with this library; if not, write to the  
Free

Software Foundation, Inc., 675 Mass Ave,  
Cambridge, MA 02139, USA.

Also add information on how to contact you by  
electronic and paper mail.

You should also get your employer (if you work as a  
programmer) or your

school, if any, to sign a "copyright disclaimer" for the  
library, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright  
interest in the

library 'Frob' (a library for tweaking knobs) written  
by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

modp base64 decoder

URL: <https://github.com/client9/stringencoders>

\* MODP\_B64 - High performance base64  
encoder/decoder

\* Version 1.3 -- 17-Mar-2006

\* <http://modp.com/release/base64>

\*

\* Copyright (c) 2005, 2006 Nick Galbreath -- nickg  
[at] modp [dot] com

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms,  
with or without

\* modification, are permitted provided that the  
following conditions are

\* met:

\*

\* Redistributions of source code must retain the  
above copyright

\* notice, this list of conditions and the following  
disclaimer.

\*

\* Redistributions in binary form must reproduce  
the above copyright

\* notice, this list of conditions and the following  
disclaimer in the

\* documentation and/or other materials provided  
with the distribution.

\*

\* Neither the name of the modp.com nor the  
names of its

\* contributors may be used to endorse or  
promote products derived from

\* this software without specific prior written  
permission.

\*

\* THIS SOFTWARE IS PROVIDED BY THE  
COPYRIGHT HOLDERS AND CONTRIBUTORS

\* "AS IS" AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT

\* LIMITED TO, THE IMPLIED WARRANTIES OF  
MERCHANTABILITY AND FITNESS FOR

\* A PARTICULAR PURPOSE ARE DISCLAIMED. IN  
NO EVENT SHALL THE COPYRIGHT

\* OWNER OR CONTRIBUTORS BE LIABLE FOR ANY  
DIRECT, INDIRECT, INCIDENTAL,

\* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT

\* LIMITED TO, PROCUREMENT OF SUBSTITUTE  
GOODS OR SERVICES; LOSS OF USE,

\* DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION) HOWEVER CAUSED AND ON ANY

\* THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT LIABILITY, OR TORT

\* (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE

\* OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

Mojo

URL: <https://github.com/domokit/mojo>

// Copyright 2014 The Chromium Authors. All rights  
reserved.

//

// Redistribution and use in source and binary forms,  
with or without

// modification, are permitted provided that the  
following conditions are

// met:

//

// \* Redistributions of source code must retain  
the above copyright

// notice, this list of conditions and the following  
disclaimer.

// \* Redistributions in binary form must reproduce



the above  
 // copyright notice, this list of conditions and the  
 following disclaimer  
 // in the documentation and/or other materials  
 provided with the  
 // distribution.  
 // \* Neither the name of Google Inc. nor the  
 names of its  
 // contributors may be used to endorse or promote  
 products derived from  
 // this software without specific prior written  
 permission.  
 //  
 // THIS SOFTWARE IS PROVIDED BY THE  
 COPYRIGHT HOLDERS AND CONTRIBUTORS  
 // "AS IS" AND ANY EXPRESS OR IMPLIED  
 WARRANTIES, INCLUDING, BUT NOT  
 // LIMITED TO, THE IMPLIED WARRANTIES OF  
 MERCHANTABILITY AND FITNESS FOR  
 // A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
 EVENT SHALL THE COPYRIGHT  
 // OWNER OR CONTRIBUTORS BE LIABLE FOR ANY  
 DIRECT, INDIRECT, INCIDENTAL,  
 // SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
 DAMAGES (INCLUDING, BUT NOT  
 // LIMITED TO, PROCUREMENT OF SUBSTITUTE  
 GOODS OR SERVICES; LOSS OF USE,  
 // DATA, OR PROFITS; OR BUSINESS  
 INTERRUPTION) HOWEVER CAUSED AND ON ANY  
 // THEORY OF LIABILITY, WHETHER IN CONTRACT,  
 STRICT LIABILITY, OR TORT  
 // (INCLUDING NEGLIGENCE OR OTHERWISE)  
 ARISING IN ANY WAY OUT OF THE USE  
 // OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
 POSSIBILITY OF SUCH DAMAGE.

mt19937ar  
 URL: <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>

A C-program for MT19937, with initialization  
 improved 2002/1/26.

Coded by Takuji Nishimura and Makoto  
 Matsumoto.

Before using, initialize the state by using  
 init\_genrand(seed)  
 or init\_by\_array(init\_key, key\_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto  
 and Takuji Nishimura,  
 All rights reserved.

Redistribution and use in source and binary forms,  
 with or without  
 modification, are permitted provided that the  
 following conditions  
 are met:

1. Redistributions of source code must retain the  
 above copyright  
 notice, this list of conditions and the  
 following disclaimer.

2. Redistributions in binary form must reproduce  
 the above copyright  
 notice, this list of conditions and the  
 following disclaimer in the  
 documentation and/or other materials  
 provided with the distribution.

3. The names of its contributors may not be  
 used to endorse or promote  
 products derived from this software without  
 specific prior written  
 permission.

THIS SOFTWARE IS PROVIDED BY THE  
 COPYRIGHT HOLDERS AND CONTRIBUTORS  
 "AS IS" AND ANY EXPRESS OR IMPLIED  
 WARRANTIES, INCLUDING, BUT NOT  
 LIMITED TO, THE IMPLIED WARRANTIES OF  
 MERCHANTABILITY AND FITNESS FOR  
 A PARTICULAR PURPOSE ARE DISCLAIMED. IN  
 NO EVENT SHALL THE COPYRIGHT OWNER OR  
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT,  
 INDIRECT, INCIDENTAL, SPECIAL,  
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
 (INCLUDING, BUT NOT LIMITED TO,  
 PROCUREMENT OF SUBSTITUTE GOODS OR  
 SERVICES; LOSS OF USE, DATA, OR  
 PROFITS; OR BUSINESS INTERRUPTION)  
 HOWEVER CAUSED AND ON ANY THEORY OF  
 LIABILITY, WHETHER IN CONTRACT, STRICT  
 LIABILITY, OR TORT (INCLUDING  
 NEGLIGENCE OR OTHERWISE) ARISING IN ANY  
 WAY OUT OF THE USE OF THIS  
 SOFTWARE, EVEN IF ADVISED OF THE  
 POSSIBILITY OF SUCH DAMAGE.

Netscape Plugin Application Programming Interface  
 (NPAPI)

URL: <http://mxr.mozilla.org/mozilla-central/source/modules/plugin/base/public/>

Version: MPL 1.1/GPL 2.0/LGPL 2.1

The contents of this file are subject to the Mozilla  
 Public License Version  
 1.1 (the "License"); you may not use this file except in  
 compliance with  
 the License. You may obtain a copy of the License at  
<http://www.mozilla.org/MPL/>

Software distributed under the License is distributed  
 on an "AS IS" basis,  
 WITHOUT WARRANTY OF ANY KIND, either express  
 or implied. See the License  
 for the specific language governing rights and

limitations under the License.

The Original Code is mozilla.org code.

The Initial Developer of the Original Code is Netscape Communications Corporation. Portions created by the Initial Developer are Copyright (C) 1998 the Initial Developer. All Rights Reserved.

Contributor(s):

Alternatively, the contents of this file may be used under the terms of either the GNU General Public License Version 2 or later (the "GPL"), or the GNU Lesser General Public License Version 2.1 or later (the "LGPL"), in which case the provisions of the GPL or the LGPL are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of either the GPL or the LGPL, and not to allow others to use your version of this file under the terms of the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the GPL or the LGPL. If you do not delete the provisions above, a recipient may use your version of this file under the terms of any one of the MPL, the GPL or the LGPL.

OpenMAX DL

URL: <https://silver.arm.com/download/Software/Graphics/OX000-BU-00010-r1p0-00bet0/OX000-BU-00010-r1p0-00bet0.tgz>

Use of this source code is governed by a BSD-style license that can be found in the LICENSE file in the root of the source tree. All contributing project authors may be found in the AUTHORS file in the root of the source tree.

The files were originally licensed by ARM Limited.

The following files:

- \* dl/api/omxtypes.h
- \* dl/sp/api/omxSP.h

are licensed by Khronos:

Copyright © 2005–2008 The Khronos Group Inc. All Rights Reserved.

These materials are protected by copyright laws and contain material proprietary to the Khronos Group, Inc. You may use these materials for implementing Khronos specifications, without altering or removing any trademark, copyright or other notice from the specification.

Khronos Group makes no, and expressly disclaims any, representations or warranties, express or implied, regarding these materials, including, without limitation, any implied warranties of merchantability or fitness for a particular purpose or non-infringement of any intellectual property. Khronos Group makes no, and expressly disclaims any, warranties, express or implied, regarding the correctness, accuracy, completeness, timeliness, and reliability of these materials.

Under no circumstances will the Khronos Group, or any of its Promoters, Contributors or Members or their respective partners, officers, directors, employees, agents or representatives be liable for any damages, whether direct, indirect, special or consequential damages for lost revenues, lost profits, or otherwise, arising from or in connection with these materials.

Khronos and OpenMAX are trademarks of the Khronos Group Inc.

opus

URL: <http://git.xiph.org/?p=opus.git>

Copyright 2001–2011 Xiph.Org, Skype Limited, Octasic, Jean-Marc Valin, Timothy B. Terriberry, CSIRO, Gregory Maxwell, Mark Borgerding, Erik de Castro Lopo

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the

above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- Neither the name of Internet Society, IETF or IETF Trust, nor the names of specific contributors, may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Opus is subject to the royalty-free patent licenses which are specified at:

Xiph.Org Foundation:  
<https://datatracker.ietf.org/ipr/1524/>

Microsoft Corporation:  
<https://datatracker.ietf.org/ipr/1914/>

Broadcom Corporation:  
<https://datatracker.ietf.org/ipr/1526/>

OTS (OpenType Sanitizer)  
URL: <https://github.com/khaledhosny/ots.git>

// Copyright (c) 2009 The Chromium Authors. All rights reserved.  
//  
// Redistribution and use in source and binary forms, with or without  
// modification, are permitted provided that the following conditions are

// met:  
//  
// \* Redistributions of source code must retain the above copyright  
// notice, this list of conditions and the following disclaimer.  
// \* Redistributions in binary form must reproduce the above  
// copyright notice, this list of conditions and the following disclaimer  
// in the documentation and/or other materials provided with the  
// distribution.  
// \* Neither the name of Google Inc. nor the names of its  
// contributors may be used to endorse or promote products derived from  
// this software without specific prior written permission.  
//  
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

PLY (Python Lex-Yacc)  
URL: <http://www.dabeaz.com/ply/ply-3.4.tar.gz>

PLY (Python Lex-Yacc)  
Version 3.4

Copyright (C) 2001-2011,  
David M. Beazley (Dabeaz LLC)  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are  
met:

\* Redistributions of source code must retain the

above copyright notice,  
this list of conditions and the following disclaimer.  
\* Redistributions in binary form must reproduce the  
above copyright notice,  
this list of conditions and the following disclaimer in  
the documentation  
and/or other materials provided with the  
distribution.  
\* Neither the name of the David Beazley or Dabeaz  
LLC may be used to  
endorse or promote products derived from this  
software without  
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT  
HOLDERS AND CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED  
WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF  
MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
EVENT SHALL THE COPYRIGHT  
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY  
DIRECT, INDIRECT, INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE  
GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING  
IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

Protocol Buffers  
URL: <http://protobuf.googlecode.com/svn/trunk>

Copyright 2008, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms,  
with or without  
modification, are permitted provided that the  
following conditions are  
met:

\* Redistributions of source code must retain the  
above copyright  
notice, this list of conditions and the following  
disclaimer.  
\* Redistributions in binary form must reproduce  
the above  
copyright notice, this list of conditions and the  
following disclaimer  
in the documentation and/or other materials provided  
with the  
distribution.

\* Neither the name of Google Inc. nor the names  
of its  
contributors may be used to endorse or promote  
products derived from  
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT  
HOLDERS AND CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED  
WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF  
MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
EVENT SHALL THE COPYRIGHT  
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY  
DIRECT, INDIRECT, INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE  
GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING  
IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is  
owned by the owner  
of the input file used when generating it. This code is  
not  
standalone and requires a support library to be linked  
with it. This  
support library is itself covered by the above license.

Quick Color Management System  
URL: <https://github.com/jrmuizel/qcms/tree/v4>

qcms  
Copyright (C) 2009 Mozilla Corporation  
Copyright (C) 1998–2007 Marti Maria

Permission is hereby granted, free of charge, to any  
person obtaining  
a copy of this software and associated  
documentation files (the "Software"),  
to deal in the Software without restriction, including  
without limitation  
the rights to use, copy, modify, merge, publish,  
distribute, sublicense,  
and/or sell copies of the Software, and to permit  
persons to whom the Software  
is furnished to do so, subject to the following  
conditions:

The above copyright notice and this permission  
notice shall be included in  
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

re2 - an efficient, principled regular expression library

URL: <https://github.com/google/re2>

// Copyright (c) 2009 The RE2 Authors. All rights reserved.

//

// Redistribution and use in source and binary forms, with or without

// modification, are permitted provided that the following conditions are

// met:

//

// \* Redistributions of source code must retain the above copyright

// notice, this list of conditions and the following disclaimer.

// \* Redistributions in binary form must reproduce the above

// copyright notice, this list of conditions and the following disclaimer

// in the documentation and/or other materials provided with the

// distribution.

// \* Neither the name of Google Inc. nor the names of its

// contributors may be used to endorse or promote products derived from

// this software without specific prior written permission.

//

// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

// "AS IS" AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT

// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

sfntly

URL: <https://github.com/googlei18n/sfntly>

Apache

License

Version 2.0,

January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE,  
REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting

from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been

received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry

prominent notices  
stating that You changed the files; and

(c) You must retain, in the Source form of any  
Derivative Works  
that You distribute, all copyright, patent,  
trademark, and  
attribution notices from the Source form  
of the Work,  
excluding those notices that do not  
pertain to any part of  
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as  
part of its  
distribution, then any Derivative Works  
that You distribute must  
include a readable copy of the  
attribution notices contained  
within such NOTICE file, excluding those  
notices that do not  
pertain to any part of the Derivative  
Works, in at least one  
of the following places: within a NOTICE  
text file distributed  
as part of the Derivative Works; within  
the Source form or  
documentation, if provided along with  
the Derivative Works; or,  
within a display generated by the  
Derivative Works, if and  
wherever such third-party notices  
normally appear. The contents  
of the NOTICE file are for informational  
purposes only and  
do not modify the License. You may add  
Your own attribution  
notices within Derivative Works that You  
distribute, alongside  
or as an addendum to the NOTICE text  
from the Work, provided  
that such additional attribution notices  
cannot be construed  
as modifying the License.

You may add Your own copyright statement to  
Your modifications and  
may provide additional or different license  
terms and conditions  
for use, reproduction, or distribution of Your  
modifications, or  
for any such Derivative Works as a whole,  
provided Your use,  
reproduction, and distribution of the Work  
otherwise complies with  
the conditions stated in this License.

5. Submission of Contributions. Unless You  
explicitly state otherwise,  
any Contribution intentionally submitted for

inclusion in the Work  
by You to the Licensor shall be under the  
terms and conditions of  
this License, without any additional terms or  
conditions.

Notwithstanding the above, nothing herein  
shall supersede or modify  
the terms of any separate license agreement  
you may have executed  
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant  
permission to use the trade  
names, trademarks, service marks, or product  
names of the Licensor,  
except as required for reasonable and  
customary use in describing the  
origin of the Work and reproducing the  
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by  
applicable law or  
agreed to in writing, Licensor provides the  
Work (and each  
Contributor provides its Contributions) on an  
"AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF  
ANY KIND, either express or  
implied, including, without limitation, any  
warranties or conditions  
of TITLE, NON-INFRINGEMENT,  
MERCHANTABILITY, or FITNESS FOR A  
PARTICULAR PURPOSE. You are solely  
responsible for determining the  
appropriateness of using or redistributing the  
Work and assume any  
risks associated with Your exercise of  
permissions under this License.

8. Limitation of Liability. In no event and under no  
legal theory,  
whether in tort (including negligence),  
contract, or otherwise,  
unless required by applicable law (such as  
deliberate and grossly  
negligent acts) or agreed to in writing, shall  
any Contributor be  
liable to You for damages, including any  
direct, indirect, special,  
incidental, or consequential damages of any  
character arising as a  
result of this License or out of the use or  
inability to use the  
Work (including but not limited to damages for  
loss of goodwill,  
work stoppage, computer failure or  
malfunction, or any and all  
other commercial damages or losses), even if  
such Contributor  
has been advised of the possibility of such

damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[ ]"

replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright 2011 Google Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY

KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Skia

URL: <https://skia.org/>

// Copyright (c) 2011 Google Inc. All rights reserved.

//

// Redistribution and use in source and binary forms, with or without

// modification, are permitted provided that the following conditions are

// met:

//

// \* Redistributions of source code must retain the above copyright

// notice, this list of conditions and the following disclaimer.

// \* Redistributions in binary form must reproduce the above

// copyright notice, this list of conditions and the following disclaimer

// in the documentation and/or other materials provided with the

// distribution.

// \* Neither the name of Google Inc. nor the names of its

// contributors may be used to endorse or promote products derived from

// this software without specific prior written permission.

//

// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE

// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
-----



third\_party/etc1 is under the following license:

License Apache  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare  
Derivative Works of,  
publicly display, publicly perform, sublicense,  
and distribute the

Work and such Derivative Works in Source or  
Object form.

3. Grant of Patent License. Subject to the terms  
and conditions of  
this License, each Contributor hereby grants to  
You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-  
free, irrevocable  
(except as stated in this section) patent license  
to make, have made,  
use, offer to sell, sell, import, and otherwise  
transfer the Work,  
where such license applies only to those  
patent claims licensable  
by such Contributor that are necessarily  
infringed by their  
Contribution(s) alone or by combination of  
their Contribution(s)  
with the Work to which such Contribution(s)  
was submitted. If You  
institute patent litigation against any entity  
(including a  
cross-claim or counterclaim in a lawsuit)  
alleging that the Work  
or a Contribution incorporated within the Work  
constitutes direct  
or contributory patent infringement, then any  
patent licenses  
granted to You under this License for that  
Work shall terminate  
as of the date such litigation is filed.

4. Redistribution. You may reproduce and  
distribute copies of the  
Work or Derivative Works thereof in any  
medium, with or without  
modifications, and in Source or Object form,  
provided that You  
meet the following conditions:

(a) You must give any other recipients of the  
Work or  
Derivative Works a copy of this License;  
and

(b) You must cause any modified files to carry  
prominent notices  
stating that You changed the files; and

(c) You must retain, in the Source form of any  
Derivative Works  
that You distribute, all copyright, patent,  
trademark, and  
attribution notices from the Source form  
of the Work,

excluding those notices that do not  
pertain to any part of  
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as  
part of its  
distribution, then any Derivative Works  
that You distribute must  
include a readable copy of the  
attribution notices contained  
within such NOTICE file, excluding those  
notices that do not  
pertain to any part of the Derivative  
Works, in at least one  
of the following places: within a NOTICE  
text file distributed  
as part of the Derivative Works; within  
the Source form or  
documentation, if provided along with  
the Derivative Works; or,  
within a display generated by the  
Derivative Works, if and  
wherever such third-party notices  
normally appear. The contents  
of the NOTICE file are for informational  
purposes only and  
do not modify the License. You may add  
Your own attribution  
notices within Derivative Works that You  
distribute, alongside  
or as an addendum to the NOTICE text  
from the Work, provided  
that such additional attribution notices  
cannot be construed  
as modifying the License.

You may add Your own copyright statement to  
Your modifications and  
may provide additional or different license  
terms and conditions  
for use, reproduction, or distribution of Your  
modifications, or  
for any such Derivative Works as a whole,  
provided Your use,  
reproduction, and distribution of the Work  
otherwise complies with  
the conditions stated in this License.

5. Submission of Contributions. Unless You  
explicitly state otherwise,  
any Contribution intentionally submitted for  
inclusion in the Work  
by You to the Licensor shall be under the  
terms and conditions of  
this License, without any additional terms or  
conditions.

Notwithstanding the above, nothing herein  
shall supersede or modify  
the terms of any separate license agreement  
you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights

consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Some files under resources are under the following license:

## Unlimited Commercial Use

We try to make it clear that you may use all clipart from Openclipart even for unlimited commercial use. We believe that giving away our images is a great way to share with the world our talents and that will come back around in a better form.

## May I Use Openclipart for?

We put together a small chart of as many possibilities and questions we have heard from people asking how they may use Openclipart. If you have an additional question, please email [love@openclipart.org](mailto:love@openclipart.org).

All Clipart are Released into the Public Domain. Each artist at Openclipart releases all rights to the images they share at Openclipart. The reason is so that there is no friction in using and sharing images authors make available at this website so that each artist might also receive the same benefit in using other artists clipart totally for any possible reason.

## SMHasher

URL: <http://code.google.com/p/smhasher/>

All MurmurHash source files are placed in the public domain.

The license below applies to all other code in SMHasher:

Copyright (c) 2011 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Snappy: A fast compressor/decompressor

URL: <http://google.github.io/snappy/>

Copyright 2011, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

sqlite

URL: <http://sqlite.org/>

The author disclaims copyright to this source code.

In place of  
a legal notice, here is a blessing:

May you do good and not evil.  
May you find forgiveness for yourself and forgive  
others.  
May you share freely, never taking more than you  
give.

tcmmalloc  
URL: <http://gperftools.googlecode.com/>

```
// Copyright (c) 2005, Google Inc.  
// All rights reserved.  
//  
// Redistribution and use in source and binary forms,  
// with or without  
// modification, are permitted provided that the  
// following conditions are  
// met:  
//  
// * Redistributions of source code must retain  
// the above copyright  
// notice, this list of conditions and the following  
// disclaimer.  
// * Redistributions in binary form must  
// reproduce the above  
// copyright notice, this list of conditions and the  
// following disclaimer  
// in the documentation and/or other materials  
// provided with the  
// distribution.  
// * Neither the name of Google Inc. nor the  
// names of its  
// contributors may be used to endorse or promote  
// products derived from  
// this software without specific prior written  
// permission.  
//  
// THIS SOFTWARE IS PROVIDED BY THE  
// COPYRIGHT HOLDERS AND CONTRIBUTORS  
// "AS IS" AND ANY EXPRESS OR IMPLIED  
// WARRANTIES, INCLUDING, BUT NOT  
// LIMITED TO, THE IMPLIED WARRANTIES OF  
// MERCHANTABILITY AND FITNESS FOR  
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
// EVENT SHALL THE COPYRIGHT  
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY  
// DIRECT, INDIRECT, INCIDENTAL,  
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
// DAMAGES (INCLUDING, BUT NOT  
// LIMITED TO, PROCUREMENT OF SUBSTITUTE  
// GOODS OR SERVICES; LOSS OF USE,  
// DATA, OR PROFITS; OR BUSINESS  
// INTERRUPTION) HOWEVER CAUSED AND ON ANY  
// THEORY OF LIABILITY, WHETHER IN CONTRACT,  
// STRICT LIABILITY, OR TORT  
// (INCLUDING NEGLIGENCE OR OTHERWISE)  
// ARISING IN ANY WAY OUT OF THE USE  
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE
```

POSSIBILITY OF SUCH DAMAGE.

The USB ID Repository  
URL: <http://www.linux-usb.org/usb-ids.html>

Copyright (c) 2012, Linux USB Project  
All rights reserved.

Redistribution and use in source and binary forms,  
with or without modification, are permitted provided  
that the following conditions are met:

- o Redistributions of source code must retain the  
above copyright notice,  
this list of conditions and the following disclaimer.
- o Redistributions in binary form must reproduce the  
above copyright  
notice, this list of conditions and the following  
disclaimer in the  
documentation and/or other materials provided  
with the distribution.
- o Neither the name of the Linux USB Project nor the  
names of its  
contributors may be used to endorse or promote  
products derived from  
this software without specific prior written  
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT  
HOLDERS AND CONTRIBUTORS "AS IS" AND ANY  
EXPRESS OR IMPLIED WARRANTIES, INCLUDING,  
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES  
OF MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
EVENT SHALL THE COPYRIGHT HOLDER OR  
CONTRIBUTORS BE LIABLE FOR ANY DIRECT,  
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE  
GOODS OR SERVICES; LOSS OF USE, DATA, OR  
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER  
CAUSED AND ON ANY THEORY OF LIABILITY,  
WHETHER IN CONTRACT, STRICT LIABILITY, OR  
TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY  
OF SUCH DAMAGE.

usrstcp  
URL: <http://github.com/sctplab/usrstcp>

(Copied from the COPYRIGHT file of  
<https://code.google.com/p/sctp-refimpl/source/browse/trunk/COPYRIGHT>)

Copyright (c) 2001, 2002 Cisco Systems, Inc.

Copyright (c) 2002–12 Randall R. Stewart  
Copyright (c) 2002–12 Michael Tuexen  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

wayland  
URL: <http://wayland.freedesktop.org/>

Copyright © 2008–2012 Kristian Høgsberg  
Copyright © 2010–2012 Intel Corporation  
Copyright © 2011 Benjamin Franzke  
Copyright © 2012 Collabora, Ltd.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit

persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

The above is the version of the MIT "Expat" License used by X.org:

<http://cgit.freedesktop.org/xorg/xserver/tree/COPYING>

wayland-protocols  
URL: <http://wayland.freedesktop.org/>

Copyright © 2008–2013 Kristian Høgsberg  
Copyright © 2010–2013 Intel Corporation  
Copyright © 2013 Rafael Antognolli  
Copyright © 2013 Jasper St. Pierre  
Copyright © 2014 Jonas Ådahl  
Copyright © 2014 Jason Ekstrand  
Copyright © 2014–2015 Collabora, Ltd.  
Copyright © 2015 Red Hat Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or

substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

The above is the version of the MIT "Expat" License used by X.org:

<http://cgit.freedesktop.org/xorg/xserver/tree/COPYING>

Web Animations JS

URL: <https://github.com/web-animations/web-animations-js>

Apache

License

Version 2.0,

January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE,  
REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity,

whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or

written communication sent  
to the Licensor or its representatives, including  
but not limited to  
communication on electronic mailing lists,  
source code control systems,  
and issue tracking systems that are managed  
by, or on behalf of, the  
Licensor for the purpose of discussing and  
improving the Work, but  
excluding communication that is  
conspicuously marked or otherwise  
designated in writing by the copyright owner  
as "Not a Contribution."

"Contributor" shall mean Licensor and any  
individual or Legal Entity  
on behalf of whom a Contribution has been  
received by Licensor and  
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms  
and conditions of  
this License, each Contributor hereby grants to  
You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-  
free, irrevocable  
copyright license to reproduce, prepare  
Derivative Works of,  
publicly display, publicly perform, sublicense,  
and distribute the  
Work and such Derivative Works in Source or  
Object form.

3. Grant of Patent License. Subject to the terms  
and conditions of  
this License, each Contributor hereby grants to  
You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-  
free, irrevocable  
(except as stated in this section) patent license  
to make, have made,  
use, offer to sell, sell, import, and otherwise  
transfer the Work,  
where such license applies only to those  
patent claims licensable  
by such Contributor that are necessarily  
infringed by their  
Contribution(s) alone or by combination of  
their Contribution(s)  
with the Work to which such Contribution(s)  
was submitted. If You  
institute patent litigation against any entity  
(including a  
cross-claim or counterclaim in a lawsuit)  
alleging that the Work  
or a Contribution incorporated within the Work  
constitutes direct  
or contributory patent infringement, then any  
patent licenses  
granted to You under this License for that

Work shall terminate  
as of the date such litigation is filed.

4. Redistribution. You may reproduce and  
distribute copies of the  
Work or Derivative Works thereof in any  
medium, with or without  
modifications, and in Source or Object form,  
provided that You  
meet the following conditions:

(a) You must give any other recipients of the  
Work or  
Derivative Works a copy of this License;  
and

(b) You must cause any modified files to carry  
prominent notices  
stating that You changed the files; and

(c) You must retain, in the Source form of any  
Derivative Works  
that You distribute, all copyright, patent,  
trademark, and  
attribution notices from the Source form  
of the Work,  
excluding those notices that do not  
pertain to any part of  
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as  
part of its  
distribution, then any Derivative Works  
that You distribute must  
include a readable copy of the  
attribution notices contained  
within such NOTICE file, excluding those  
notices that do not  
pertain to any part of the Derivative  
Works, in at least one  
of the following places: within a NOTICE  
text file distributed  
as part of the Derivative Works; within  
the Source form or  
documentation, if provided along with  
the Derivative Works; or,  
within a display generated by the  
Derivative Works, if and  
wherever such third-party notices  
normally appear. The contents  
of the NOTICE file are for informational  
purposes only and  
do not modify the License. You may add  
Your own attribution  
notices within Derivative Works that You  
distribute, alongside  
or as an addendum to the NOTICE text  
from the Work, provided  
that such additional attribution notices  
cannot be construed



as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.



; abstraction between different calling conventions (x86\_32, win64, linux64).  
; It also has various other useful features to simplify writing the kind of  
; DSP functions that are most often used in x264.

; Unlike the rest of x264, this file is available under an ISC license, as it  
; has significant usefulness outside of x264 and we want it to be available  
; to the largest audience possible. Of course, if you modify it for your own  
; purposes to add a new feature, we strongly encourage contributing a patch  
; as this feature might be useful for others as well. Send patches or ideas  
; to x264-devel@videolan.org .

zlib  
URL: <http://zlib.net/>

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.4, March 14th, 2010

Copyright (C) 1995-2010 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied  
warranty. In no event will the authors be held liable for any damages  
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,  
including commercial applications, and to alter it and redistribute it  
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not  
claim that you wrote the original software. If you use this software  
in a product, an acknowledgment in the product documentation would be  
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be  
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly  
Mark Adler

\*/

mozzconf.h is distributed under the MPL 1.1/GPL 2.0/LGPL 2.1 tri-license.

url\_parse  
URL: <http://mxr.mozilla.org/comm-central/source/mozilla/network/base/src/nsURLParsers.cpp>

Copyright 2007, Google Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above  
copyright notice, this list of conditions and the following disclaimer  
in the documentation and/or other materials provided with the  
distribution.

\* Neither the name of Google Inc. nor the names of its  
contributors may be used to endorse or promote products derived from  
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----  
-----  
The file url\_parse.cc is based on nsURLParsers.cc from Mozilla. This file is  
licensed separately as follows:

The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is mozilla.org code.

The Initial Developer of the Original Code is Netscape Communications Corporation. Portions created by the Initial Developer are Copyright (C) 1998 the Initial Developer. All Rights Reserved.

Contributor(s):  
Darin Fisher (original author)

Alternatively, the contents of this file may be used under the terms of either the GNU General Public License Version 2 or later (the "GPL"), or the GNU Lesser General Public License Version 2.1 or later (the "LGPL"), in which case the provisions of the GPL or the LGPL are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of either the GPL or the LGPL, and not to allow others to use your version of this file under the terms of the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the GPL or the LGPL. If you do not delete the provisions above, a recipient may use your version of this file under the terms of any one of the MPL, the GPL or the LGPL.

V8 JavaScript Engine  
URL: <http://code.google.com/p/v8>

This license applies to all parts of V8 that are not externally maintained libraries. The externally maintained libraries used by V8 are:

- PCRE test suite, located in `test/mjsunit/third_party/regexp-pcre/regexp-`

`pcre.js`. This is based on the test suite from PCRE-7.3, which is copyrighted by the University of Cambridge and Google, Inc. The copyright notice and license are embedded in `regexp-pcre.js`.

- Layout tests, located in `test/mjsunit/third_party/object-keys`. These are based on layout tests from `webkit.org` which are copyrighted by Apple Computer, Inc. and released under a 3-clause BSD license.

- Strongtalk assembler, the basis of the files `assembler-arm-inl.h`, `assembler-arm.cc`, `assembler-arm.h`, `assembler-ia32-inl.h`, `assembler-ia32.cc`, `assembler-ia32.h`, `assembler-x64-inl.h`, `assembler-x64.cc`, `assembler-x64.h`, `assembler-mips-inl.h`, `assembler-mips.cc`, `assembler-mips.h`, `assembler.cc` and `assembler.h`. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.

- Valgrind client API header, located at `third_party/valgrind/valgrind.h`. This is release under the BSD license.

These libraries have their own licenses; we recommend you read them, as their terms may differ from the terms below.

Further license information can be found in LICENSE files located in sub-directories.

Copyright 2014, the V8 project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names

of its  
contributors may be used to endorse or  
promote products derived  
from this software without specific prior  
written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT  
HOLDERS AND CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED  
WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF  
MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO  
EVENT SHALL THE COPYRIGHT  
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY  
DIRECT, INDIRECT, INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT  
LIMITED TO, PROCUREMENT OF SUBSTITUTE  
GOODS OR SERVICES; LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING  
IN ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

fdlibm  
URL: <http://www.netlib.org/fdlibm/>

Copyright (C) 1993-2004 by Sun Microsystems, Inc.  
All rights reserved.

Developed at SunSoft, a Sun Microsystems, Inc.  
business.  
Permission to use, copy, modify, and distribute this  
software is freely granted, provided that this notice  
is preserved.

Strongtalk  
URL: <http://www.strongtalk.org/>

Copyright (c) 1994-2006 Sun Microsystems Inc.  
All Rights Reserved.

Redistribution and use in source and binary forms,  
with or without  
modification, are permitted provided that the  
following conditions are  
met:

- Redistributions of source code must retain the  
above copyright notice,  
this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the  
above copyright  
notice, this list of conditions and the following

disclaimer in the  
documentation and/or other materials provided with  
the distribution.

- Neither the name of Sun Microsystems or the names  
of contributors may  
be used to endorse or promote products derived from  
this software without  
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT  
HOLDERS AND CONTRIBUTORS "AS  
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,  
INCLUDING, BUT NOT LIMITED TO,  
THE IMPLIED WARRANTIES OF MERCHANTABILITY  
AND FITNESS FOR A PARTICULAR  
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL  
THE COPYRIGHT OWNER OR  
CONTRIBUTORS BE LIABLE FOR ANY DIRECT,  
INDIRECT, INCIDENTAL, SPECIAL,  
EXEMPLARY, OR CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO,  
PROCUREMENT OF SUBSTITUTE GOODS OR  
SERVICES; LOSS OF USE, DATA, OR  
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER  
CAUSED AND ON ANY THEORY OF  
LIABILITY, WHETHER IN CONTRACT, STRICT  
LIABILITY, OR TORT (INCLUDING  
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY  
OF SUCH DAMAGE.

Extra bundled binaries

name License  
libcap  
URL: <https://sites.google.com/site/fullycapable/>

Unless otherwise \*explicitly\* stated, the following text  
describes the  
licensed conditions under which the contents of this  
libcap release  
may be used and distributed:

-----  
-----  
Redistribution and use in source and binary forms of  
libcap, with  
or without modification, are permitted provided that  
the following  
conditions are met:

1. Redistributions of source code must retain any  
existing copyright  
notice, and this entire permission notice in its  
entirety,  
including the disclaimer of warranties.
2. Redistributions in binary form must reproduce all

prior and current  
copyright notices, this list of conditions, and the  
following  
disclaimer in the documentation and/or other  
materials provided  
with the distribution.

3. The name of any author may not be used to  
endorse or promote  
products derived from this software without their  
specific prior  
written permission.

ALTERNATIVELY, this product may be distributed  
under the terms of the  
GNU General Public License (v2.0 - see below), in  
which case the  
provisions of the GNU GPL are required INSTEAD OF  
the above  
restrictions. (This clause is necessary due to a  
potential conflict  
between the GNU GPL and the restrictions contained  
in a BSD-style  
copyright.)

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY  
EXPRESS OR IMPLIED  
WARRANTIES, INCLUDING, BUT NOT LIMITED TO,  
THE IMPLIED WARRANTIES OF  
MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE ARE DISCLAIMED.  
IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR  
ANY DIRECT, INDIRECT,  
INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL DAMAGES (INCLUDING,  
BUT NOT LIMITED TO, PROCUREMENT OF  
SUBSTITUTE GOODS OR SERVICES; LOSS  
OF USE, DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION) HOWEVER CAUSED AND  
ON ANY THEORY OF LIABILITY, WHETHER IN  
CONTRACT, STRICT LIABILITY, OR  
TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY OUT OF THE  
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH  
DAMAGE.

-----  
-----

-----  
Full text of gpl-2.0.txt:  
-----

GNU GENERAL PUBLIC  
LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation,  
Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301

USA

Everyone is permitted to copy and distribute  
verbatim copies  
of this license document, but changing it is not  
allowed.

## Preamble

The licenses for most software are designed to take  
away your  
freedom to share and change it. By contrast, the  
GNU General Public  
License is intended to guarantee your freedom to  
share and change free  
software--to make sure the software is free for all its  
users. This  
General Public License applies to most of the Free  
Software  
Foundation's software and to any other program  
whose authors commit to  
using it. (Some other Free Software Foundation  
software is covered by  
the GNU Lesser General Public License instead.) You  
can apply it to  
your programs, too.

When we speak of free software, we are referring to  
freedom, not  
price. Our General Public Licenses are designed to  
make sure that you  
have the freedom to distribute copies of free software  
(and charge for  
this service if you wish), that you receive source code  
or can get it  
if you want it, that you can change the software or  
use pieces of it  
in new free programs; and that you know you can do  
these things.

To protect your rights, we need to make restrictions  
that forbid  
anyone to deny you these rights or to ask you to  
surrender the rights.  
These restrictions translate to certain responsibilities  
for you if you  
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a  
program, whether  
gratis or for a fee, you must give the recipients all the  
rights that  
you have. You must make sure that they, too,  
receive or can get the  
source code. And you must show them these terms  
so they know their  
rights.

We protect your rights with two steps: (1) copyright  
the software, and  
(2) offer you this license which gives you legal

permission to copy,  
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this

License. (Exception: if the Program itself is interactive but

does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three

years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights,



from you under  
this License will not have their licenses terminated so  
long as such  
parties remain in full compliance.

5. You are not required to accept this License, since  
you have not  
signed it. However, nothing else grants you  
permission to modify or  
distribute the Program or its derivative works. These  
actions are  
prohibited by law if you do not accept this License.  
Therefore, by  
modifying or distributing the Program (or any work  
based on the  
Program), you indicate your acceptance of this  
License to do so, and  
all its terms and conditions for copying, distributing or  
modifying  
the Program or works based on it.

6. Each time you redistribute the Program (or any  
work based on the  
Program), the recipient automatically receives a  
license from the  
original licensor to copy, distribute or modify the  
Program subject to  
these terms and conditions. You may not impose  
any further  
restrictions on the recipients' exercise of the rights  
granted herein.  
You are not responsible for enforcing compliance by  
third parties to  
this License.

7. If, as a consequence of a court judgment or  
allegation of patent  
infringement or for any other reason (not limited to  
patent issues),  
conditions are imposed on you (whether by court  
order, agreement or  
otherwise) that contradict the conditions of this  
License, they do not  
excuse you from the conditions of this License. If  
you cannot  
distribute so as to satisfy simultaneously your  
obligations under this  
License and any other pertinent obligations, then as a  
consequence you  
may not distribute the Program at all. For example, if  
a patent  
license would not permit royalty-free redistribution of  
the Program by  
all those who receive copies directly or indirectly  
through you, then  
the only way you could satisfy both it and this  
License would be to  
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or

unenforceable under  
any particular circumstance, the balance of the  
section is intended to  
apply and the section as a whole is intended to apply  
in other  
circumstances.

It is not the purpose of this section to induce you to  
infringe any  
patents or other property right claims or to contest  
validity of any  
such claims; this section has the sole purpose of  
protecting the  
integrity of the free software distribution system,  
which is  
implemented by public license practices. Many  
people have made  
generous contributions to the wide range of software  
distributed  
through that system in reliance on consistent  
application of that  
system; it is up to the author/donor to decide if he or  
she is willing  
to distribute software through any other system and a  
licensee cannot  
impose that choice.

This section is intended to make thoroughly clear  
what is believed to  
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is  
restricted in  
certain countries either by patents or by copyrighted  
interfaces, the  
original copyright holder who places the Program  
under this License  
may add an explicit geographical distribution  
limitation excluding  
those countries, so that distribution is permitted only  
in or among  
countries not thus excluded. In such case, this  
License incorporates  
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish  
revised and/or new versions  
of the General Public License from time to time.  
Such new versions will  
be similar in spirit to the present version, but may  
differ in detail to  
address new problems or concerns.

Each version is given a distinguishing version  
number. If the Program  
specifies a version number of this License which  
applies to it and "any  
later version", you have the option of following the  
terms and conditions  
either of that version or of any later version published

by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

##### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year  
name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.

This is free software, and you are welcome to redistribute it

under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers)  
written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

libnsspem

URL: <https://git.fedorahosted.org/cgit/nss-pem.git>

```
/* ***** BEGIN LICENSE BLOCK *****
```

```
* Version: MPL 1.1/GPL 2.0/LGPL 2.1
```

```
*
```

```
* The contents of this file are subject to the Mozilla  
Public License Version
```

```
* 1.1 (the "License"); you may not use this file except  
in compliance with
```

```
* the License. You may obtain a copy of the License  
at
```

```
* http://www.mozilla.org/MPL/
```

```
*
```

```
* Software distributed under the License is  
distributed on an "AS IS" basis,
```

```
* WITHOUT WARRANTY OF ANY KIND, either  
express or implied. See the License
```

```
* for the specific language governing rights and  
limitations under the
```

```
* License.
```

```
*
```

```
* The Original Code is the Netscape security libraries.
```

```
*
```

```
* The Initial Developer of the Original Code is
```

```
* Netscape Communications Corporation.
```

```
* Portions created by the Initial Developer are  
Copyright (C) 1994-2000
```

```
* the Initial Developer. All Rights Reserved.
```

```
*
```

```
* Contributor(s):
```

```
* Rob Crittenden (rcritten@redhat.com)
```

```
*
```

```
* Alternatively, the contents of this file may be used  
under the terms of
```

```
* either the GNU General Public License Version 2 or  
later (the "GPL"), or
```

```
* the GNU Lesser General Public License Version 2.1  
or later (the "LGPL"),
```

```
* in which case the provisions of the GPL or the  
LGPL are applicable instead
```

```
* of those above. If you wish to allow use of your  
version of this file only
```

```
* under the terms of either the GPL or the LGPL, and  
not to allow others to
```

```
* use your version of this file under the terms of the  
MPL, indicate your
```

```
* decision by deleting the provisions above and  
replace them with the notice
```

```
* and other provisions required by the GPL or the  
LGPL. If you do not delete
```

```
* the provisions above, a recipient may use your  
version of this file under
```

```
* the terms of any one of the MPL, the GPL or the  
LGPL.
```

```
* ***** END LICENSE BLOCK ***** */
```

Return to Documentation index.

© Opera TV AS 2015. Confidential information of  
Opera TV.

TPVision is grateful to the groups and individuals  
above for their contributions.

-----  
GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation,  
Inc.

51 Franklin Street, Fifth Floor, Boston, MA  
02110-1301, USA

Everyone is permitted to copy and distribute verbatim  
copies

of this license document, but changing it is not  
allowed.

Preamble

The licenses for most software are designed to take  
away your freedom to share and change it. By

contrast, the GNU General Public License is intended

to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too. When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things. To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it. For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights. We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software. Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations. Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all. The precise terms and conditions for copying, distribution and modification follow.

**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term

"modification".) Each licensee is addressed as "you". Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their

licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder

who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER

PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA

02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below. When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it. For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we

copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library.

Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs. When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library. We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that

the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library. The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you". A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or

work under the terms of Section 1 above, provided that you also meet all of these conditions:

☒a) The modified work must itself be a software library.

☒b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

☒c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

☒d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.) These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU

General Public License applies to all subsequent copies and derivative works made from that copy. This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.

(Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such



modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

☒a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

☒b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

☒c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

☒d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

☒e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

☒a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

☒b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY

"AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### ----- BSD LICENSE

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the University of California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND

ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache  
License  
Version 2.0,  
January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1

through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by

name) to the interfaces of,  
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including  
the original version of the Work and any modifications or additions  
to that Work or Derivative Works thereof, that is intentionally  
submitted to Licensor for inclusion in the Work by the copyright owner  
or by an individual or Legal Entity authorized to submit on behalf of  
the copyright owner. For the purposes of this definition, "submitted"  
means any form of electronic, verbal, or written communication sent  
to the Licensor or its representatives, including but not limited to  
communication on electronic mailing lists, source code control systems,  
and issue tracking systems that are managed by, or on behalf of, the  
Licensor for the purpose of discussing and improving the Work, but  
excluding communication that is conspicuously marked or otherwise  
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity  
on behalf of whom a Contribution has been received by Licensor and  
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of  
this License, each Contributor hereby grants to You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-free, irrevocable  
copyright license to reproduce, prepare Derivative Works of,  
publicly display, publicly perform, sublicense, and distribute the  
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of  
this License, each Contributor hereby grants to You a perpetual,  
worldwide, non-exclusive, no-charge, royalty-free, irrevocable  
(except as stated in this section) patent license to make, have made,  
use, offer to sell, sell, import, and otherwise transfer the Work,  
where such license applies only to those

patent claims licensable  
by such Contributor that are necessarily infringed by their  
Contribution(s) alone or by combination of their Contribution(s)  
with the Work to which such Contribution(s) was submitted. If You  
institute patent litigation against any entity (including a  
cross-claim or counterclaim in a lawsuit) alleging that the Work  
or a Contribution incorporated within the Work constitutes direct  
or contributory patent infringement, then any patent licenses  
granted to You under this License for that Work shall terminate  
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the  
Work or Derivative Works thereof in any medium, with or without  
modifications, and in Source or Object form, provided that You  
meet the following conditions:

(a) You must give any other recipients of the Work or  
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices  
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works  
that You distribute, all copyright, patent, trademark, and  
attribution notices from the Source form of the Work,  
excluding those notices that do not pertain to any part of  
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its  
distribution, then any Derivative Works that You distribute must  
include a readable copy of the attribution notices contained  
within such NOTICE file, excluding those notices that do not  
pertain to any part of the Derivative Works, in at least one  
of the following places: within a NOTICE text file distributed  
as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF

ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work,  
attach the following  
boilerplate notice, with the fields enclosed by  
brackets "[ ]"  
replaced with your own identifying  
information. (Don't include  
the brackets!) The text should be enclosed in  
the appropriate  
comment syntax for the file format. We also  
recommend that a  
file or class name and description of purpose  
be included on the  
same "printed page" as the copyright notice  
for easier  
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0  
(the "License");  
you may not use this file except in compliance  
with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in  
writing, software  
distributed under the License is distributed on an  
"AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY  
KIND, either express or implied.

See the License for the specific language  
governing permissions and  
limitations under the License.

-----  
This copy of the libpng notices is provided for your  
convenience. In case of  
any discrepancy between this copy and the notices in  
the file png.h that is  
included in the libpng distribution, the latter shall  
prevail.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices  
immediately following  
this sentence.

This code is released under the libpng license.

libpng versions 1.2.6, August 15, 2004, through 1.4.1,  
February 25, 2010, are  
Copyright (c) 2004, 2006-2007 Glenn Randers-  
Pehrson, and are

distributed according to the same disclaimer and  
license as libpng-1.2.5  
with the following individual added to the list of  
Contributing Authors

Cosmin Truta

libpng versions 1.0.7, July 1, 2000, through 1.2.5 -  
October 3, 2002, are  
Copyright (c) 2000-2002 Glenn Randers-Pehrson,  
and are  
distributed according to the same disclaimer and  
license as libpng-1.0.6  
with the following individuals added to the list of  
Contributing Authors

Simon-Pierre Cadieux  
Eric S. Raymond  
Gilles Vollant

and with the following additions to the disclaimer:

There is no warranty against interference with your  
enjoyment of the  
library or against infringement. There is no  
warranty that our  
efforts or the library will fulfill any of your  
particular purposes  
or needs. This library is provided with all faults,  
and the entire  
risk of satisfactory quality, performance, accuracy,  
and effort is with  
the user.

libpng versions 0.97, January 1998, through 1.0.6,  
March 20, 2000, are  
Copyright (c) 1998, 1999 Glenn Randers-Pehrson, and  
are  
distributed according to the same disclaimer and  
license as libpng-0.96,  
with the following individuals added to the list of  
Contributing Authors:

Tom Lane  
Glenn Randers-Pehrson  
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May  
1997, are  
Copyright (c) 1996, 1997 Andreas Dilger  
Distributed according to the same disclaimer and  
license as libpng-0.88,  
with the following individuals added to the list of  
Contributing Authors:

John Bowler  
Kevin Bracey  
Sam Bushell  
Magnus Holmgren  
Greg Roelofs

Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are  
Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger  
Dave Martindale  
Guy Eric Schalnat  
Paul Schmidt  
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.
2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.
3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

A "png\_get\_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png.jpg" and "pngbar.jpg (88x31) and "pngnow.png.jpg" (98x31).

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a certification mark of the Open Source Initiative.

Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
February 25, 2010

-----  
This software is based in part on the work of the FreeType Team.

-----  
The FreeType Project  
LICENSE

-----  
2006-Jan-27  
  
Copyright 1996-2002,  
2006 by  
David Turner, Robert Wilhelm, and  
Werner Lemberg

Introduction  
=====

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD,

Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

- o We don't promise that this software works. However, we will be interested in any kind of bug reports. ('as is' distribution)

- o You can use this software for whatever you want, in parts or full form, without having to pay us. ('royalty-free' usage)

- o You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. ('credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
""
Portions of this software are copyright <year>
The FreeType
Project (www.freetype.org). All rights reserved.
""
```

Please replace <year> with the value from the FreeType version you actually use.

## Legal Terms

=====

### 0. Definitions

-----

Throughout this license, the terms 'package', 'FreeType Project', and 'FreeType archive' refer to the set of

files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the 'FreeType Project', be they named as alpha, beta or final release.

'You' refers to the licensee, or person using the project, where 'using' is a generic term including compiling the project's source code as well as linking it to form a 'program' or 'executable'. This program is referred to as 'a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

### 1. No Warranty

-----

THE FREETYPE PROJECT IS PROVIDED 'AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

### 2. Redistribution

-----

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source



and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- o Redistribution of source code must retain this license file ('FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

- o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

### 3. Advertising

-----

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: 'FreeType Project', 'FreeType Engine', 'FreeType library', or 'FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the

authors, grants you the right to use, distribute, and modify it.

Therefore, by using, distributing, or modifying the FreeType

Project, you indicate that you understand and accept all the terms of this license.

### 4. Contacts

-----

There are two mailing lists related to FreeType:

- o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as

future and wanted additions to the library and distribution.

If you are looking for support, start in this list if you

haven't found anything to help you in the documentation.

- o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

<http://www.freetype.org>

--- end of FTL.TXT ---

-----  
MOZILLA PUBLIC  
LICENSE  
Version 1.1

### 1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications

made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this

License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. Source Code License.

2.1. The Initial Developer Grant.  
The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce,

modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

## 2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that

Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

## 3. Distribution Obligations.

### 3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

### 3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the

terms of this License

either on the same media as an Executable version or via an accepted

Electronic Distribution Mechanism to anyone to whom you made an

Executable version available; and if made available via Electronic

Distribution Mechanism, must remain available for at least twelve (12)

months after the date it initially became available, or at least six

(6) months after a subsequent version of that particular Modification

has been made available to such recipients.

You are responsible for

ensuring that the Source Code version remains available even if the

Electronic Distribution Mechanism is maintained by a third party.

### 3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a

file documenting the changes You made to create that Covered Code and

the date of any change. You must include a prominent statement that

the Modification is derived, directly or indirectly, from Original

Code provided by the Initial Developer and including the name of the

Initial Developer in (a) the Source Code, and (b) in any notice in an

Executable version or related documentation in which You describe the

origin or ownership of the Covered Code.

### 3.4. Intellectual Property Matters

#### (a) Third Party Claims.

If Contributor has knowledge that a license under a third party's

intellectual property rights is required to exercise the rights

granted by such Contributor under Sections 2.1 or 2.2,

Contributor must include a text file with the Source Code

distribution titled "LEGAL" which describes the claim and the

party making the claim in sufficient detail that a recipient will

know whom to contact. If Contributor obtains such knowledge after

the Modification is made available as described in Section 3.2,

Contributor shall promptly modify the LEGAL file in all copies

Contributor makes available thereafter and shall take other steps

(such as notifying appropriate mailing

lists or newsgroups)

reasonably calculated to inform those who received the Covered

Code that new knowledge has been obtained.

#### (b) Contributor APIs.

If Contributor's Modifications include an application programming

interface and Contributor has knowledge of patent licenses which

are reasonably necessary to implement that API, Contributor must

also include this information in the LEGAL file.

#### (c) Representations.

Contributor represents that, except as disclosed pursuant to

Section 3.4(a) above, Contributor believes that Contributor's

Modifications are Contributor's original creation(s) and/or

Contributor has sufficient rights to grant the rights conveyed by

this License.

### 3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source

Code. If it is not possible to put such notice in a particular Source

Code file due to its structure, then You must include such notice in a

location (such as a relevant directory) where a user would be likely

to look for such a notice. If You created one or more Modification(s)

You may add your name as a Contributor to the notice described in

Exhibit A. You must also duplicate this License in any documentation

for the Source Code where You describe recipients' rights or ownership

rights relating to Covered Code. You may choose to offer, and to

charge a fee for, warranty, support, indemnity or liability

obligations to one or more recipients of Covered Code. However, You

may do so only on Your own behalf, and not on behalf of the Initial

Developer or any Contributor. You must make it absolutely clear than

any such warranty, support, indemnity or liability obligation is

offered by You alone, and You hereby agree to indemnify the Initial

Developer and every Contributor for any liability incurred by the

Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

### 3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the

requirements of Section 3.1-3.5 have been met for that Covered Code,

and if You include a notice stating that the

Source Code version of

the Covered Code is available under the terms of this License,

including a description of how and where You have fulfilled the

obligations of Section 3.2. The notice must be conspicuously included

in any notice in an Executable version, related documentation or

collateral in which You describe recipients' rights relating to the

Covered Code. You may distribute the Executable version of Covered

Code or ownership rights under a license of Your choice, which may

contain terms different from this License, provided that You are in

compliance with the terms of this License and that the license for the

Executable version does not attempt to limit or alter the recipient's

rights in the Source Code version from the rights set forth in this

License. If You distribute the Executable version under a different

license You must make it absolutely clear that any terms which differ

from this License are offered by You alone, not by the Initial

Developer or any Contributor. You hereby agree to indemnify the

Initial Developer and every Contributor for any liability incurred by

the Initial Developer or such Contributor as a result of any such

terms You offer.

### 3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code

not governed by the terms of this License and distribute the Larger

Work as a single product. In such a case, You must make sure the

requirements of this License are fulfilled for the Covered Code.

## 4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of

the terms of this

License with respect to some or all of the Covered Code due to

statute, judicial order, or regulation then You must: (a) comply with

the terms of this License to the maximum extent possible; and (b)

describe the limitations and the code they affect. Such description

must be included in the LEGAL file described in Section 3.4 and must

be included with all distributions of the Source Code. Except to the

extent prohibited by statute or regulation, such description must be

sufficiently detailed for a recipient of ordinary skill to be able to

understand it.

## 5. Application of this License.

This License applies to code to which the Initial Developer has

attached the notice in Exhibit A and to related Covered Code.

## 6. Versions of the License.

### 6.1. New Versions.

Netscape Communications Corporation

("Netscape") may publish revised

and/or new versions of the License from time to time. Each version

will be given a distinguishing version number.

### 6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the

License, You may always continue to use it under the terms of that

version. You may also choose to use such Covered Code under the terms

of any subsequent version of the License published by Netscape. No one

other than Netscape has the right to modify the terms applicable to

Covered Code created under this License.

### 6.3. Derivative Works.

If You create or use a modified version of this License (which you may

only do in order to apply it to code which is not already Covered Code

governed by this License), You must (a) rename Your license so that

the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape",

"MPL", "NPL" or any confusingly similar phrase do not appear in your

license (except to note that your license differs

from this License)  
and (b) otherwise make it clear that Your  
version of the license  
contains terms which differ from the Mozilla  
Public License and  
Netscape Public License. (Filling in the name of  
the Initial  
Developer, Original Code or Contributor in the  
notice described in  
Exhibit A shall not of themselves be deemed to  
be modifications of  
this License.)

## 7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS  
LICENSE ON AN "AS IS" BASIS,  
WITHOUT WARRANTY OF ANY KIND, EITHER  
EXPRESSED OR IMPLIED, INCLUDING,  
WITHOUT LIMITATION, WARRANTIES THAT  
THE COVERED CODE IS FREE OF  
DEFECTS, MERCHANTABLE, FIT FOR A  
PARTICULAR PURPOSE OR NON-INFRINGEMENT.  
THE ENTIRE RISK AS TO THE QUALITY AND  
PERFORMANCE OF THE COVERED CODE  
IS WITH YOU. SHOULD ANY COVERED CODE  
PROVE DEFECTIVE IN ANY RESPECT,  
YOU (NOT THE INITIAL DEVELOPER OR ANY  
OTHER CONTRIBUTOR) ASSUME THE  
COST OF ANY NECESSARY SERVICING, REPAIR  
OR CORRECTION. THIS DISCLAIMER  
OF WARRANTY CONSTITUTES AN ESSENTIAL  
PART OF THIS LICENSE. NO USE OF  
ANY COVERED CODE IS AUTHORIZED  
HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

## 8. TERMINATION.

8.1. This License and the rights granted  
hereunder will terminate  
automatically if You fail to comply with terms  
herein and fail to cure  
such breach within 30 days of becoming aware  
of the breach. All  
sublicenses to the Covered Code which are  
properly granted shall  
survive any termination of this License.  
Provisions which, by their  
nature, must remain in effect beyond the  
termination of this License  
shall survive.

8.2. If You initiate litigation by asserting a  
patent infringement  
claim (excluding declaratory judgment actions)  
against Initial Developer  
or a Contributor (the Initial Developer or  
Contributor against whom  
You file such action is referred to as  
"Participant") alleging that:

(a) such Participant's Contributor Version  
directly or indirectly  
infringes any patent, then any and all rights  
granted by such  
Participant to You under Sections 2.1 and/or 2.2  
of this License  
shall, upon 60 days notice from Participant  
terminate prospectively,  
unless if within 60 days after receipt of notice  
You either: (i)  
agree in writing to pay Participant a mutually  
agreeable reasonable  
royalty for Your past and future use of  
Modifications made by such  
Participant, or (ii) withdraw Your litigation claim  
with respect to  
the Contributor Version against such  
Participant. If within 60 days  
of notice, a reasonable royalty and payment  
arrangement are not  
mutually agreed upon in writing by the parties  
or the litigation claim  
is not withdrawn, the rights granted by  
Participant to You under  
Sections 2.1 and/or 2.2 automatically terminate  
at the expiration of  
the 60 day notice period specified above.

(b) any software, hardware, or device, other  
than such Participant's  
Contributor Version, directly or indirectly  
infringes any patent, then  
any rights granted to You by such Participant  
under Sections 2.1(b)  
and 2.2(b) are revoked effective as of the date  
You first made, used,  
sold, distributed, or had made, Modifications  
made by that  
Participant.

8.3. If You assert a patent infringement claim  
against Participant  
alleging that such Participant's Contributor  
Version directly or  
indirectly infringes any patent where such claim  
is resolved (such as  
by license or settlement) prior to the initiation of  
patent  
infringement litigation, then the reasonable  
value of the licenses  
granted by such Participant under Sections 2.1  
or 2.2 shall be taken  
into account in determining the amount or  
value of any payment or  
license.

8.4. In the event of termination under Sections  
8.1 or 8.2 above,  
all end user license agreements (excluding  
distributors and resellers)

which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

#### 9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

#### 10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

#### 11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License

shall be governed by

California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions.

With respect to disputes in which at least one party is a citizen of,

or an entity chartered or registered to do business in the United

States of America, any litigation relating to this License shall be

subject to the jurisdiction of the Federal Courts of the Northern

District of California, with venue lying in Santa Clara County,

California, with the losing party responsible for costs, including

without limitation, court costs and reasonable attorneys' fees and

expenses. The application of the United Nations Convention on

Contracts for the International Sale of Goods is expressly excluded.

Any law or regulation which provides that the language of a contract

shall be construed against the drafter shall not apply to this

License.

#### 12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is

responsible for claims and damages arising, directly or indirectly,

out of its utilization of rights under this License and You agree to

work with Initial Developer and Contributors to distribute such

responsibility on an equitable basis. Nothing herein is intended or

shall be deemed to constitute any admission of liability.

#### 13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as

"Multiple-Licensed". "Multiple-Licensed" means that the Initial

Developer permits you to utilize portions of the Covered Code under

Your choice of the NPL or the alternative licenses, if any, specified

by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

"The contents of this file are subject to the

Mozilla Public License

Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is

-----.

The Initial Developer of the Original Code is

-----.

Portions created by ----- are Copyright (C) -----

----- . All Rights Reserved.

Contributor(s):

-----.

Alternatively, the contents of this file may be used under the terms of the ----- license (the "[\_\_\_] License"), in which case the provisions of [\_\_\_\_\_] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [\_\_\_\_\_] License and not to allow others to use your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [\_\_\_] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [\_\_\_] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.]



# Yardım ve Destek

13.1

## Sorun giderme

### Açma ve Uzaktan Kumanda

TV açılmıyor:

- Güç kablosunu elektrik prizinden çıkarın. Bir dakika bekleyip geri takın.
- Güç kablosunun sıkıca takılı olduğundan emin olun.


**Açma veya kapatma sırasında çıtırtı sesi geliyor**

TV'yi açarken, kapatırken ya da bekleme moduna alırken TV kasasından gelen bir çıtırtı sesi duyarsınız. Bu sesin nedeni, TV'nin soğurken ve ısınırken normal şekilde genişlemesi ve küçülmesidir. Bu durum performansı etkilemez.

**TV uzaktan kumandaya yanıt vermiyor**

TV'nin çalışmaya başlaması için belirli bir süre gerekir. TV bu esnada uzaktan kumandaya veya TV kontrollerine yanıt vermez. Bu, normal bir durumdur. TV uzaktan kumandası yanıt vermemeye devam ediyorsa uzaktan kumandanın çalışıp çalışmadığını cep telefonu kamerası ile kontrol edebilirsiniz. Telefonu kamera moduna geçirin ve uzaktan kumandayı kamera lensine doğrultun. Uzaktan kumandanın herhangi bir tuşuna bastığınızda kamerada kızılötesi LED'in titreştiğini görüyorsanız uzaktan kumanda çalışmaktadır. TV'nin kontrol edilmesi gerekir. Yanıp sönmeyi görmüyorsanız uzaktan kumanda bozulmuş ya da kumandanın pilleri bitmiş olabilir. TV ile kablosuz olarak eşleştirilmiş uzaktan kumandaları bu yöntemle kontrol edemezsiniz.

**Philips başlangıç ekranı gösterildikten sonra TV bekleme moduna geçiyor**

TV bekleme modundayken Philips başlangıç ekranı görüntülenir ve TV bekleme moduna geri döner. Bu, normal bir durumdur. TV'nin güç kaynağı bağlantısı kesilip yeniden kurulduktan sonraki ilk başlatmada başlangıç ekranı görüntülenir. Bekleme modundaki TV'yi açmak için uzaktan kumandadaki veya TV'deki  düğmesine basın.

**Bekleme ışığı yanıp sönüyor**

Güç kablosunu elektrik prizinden çıkarın. 5 dakika bekleyip güç kablosunu geri takın. Işık yanıp sönmeye devam ederse Philips TV Müşteri Destek Merkezi ile irtibata geçin.

## Kanallar

Kurulum sırasında dijital kanal bulunamadı

TV'nizin ülkenizde DVB-T veya DVB-C'yi desteklediğinden emin olmak için teknik özelliklere bakın.

Tüm kabloların doğru şekilde bağlı ve doğru ağına seçili olduğundan emin olun.

**Önceden kurulmuş kanallar kanal listesinden kayboldu**

Doğru kanal listesinin seçili olduğundan emin olun.

## Görüntü

**Görüntü yok / bozuk**

- Antenin TV'ye doğru şekilde bağlı olduğundan emin olun.
- Görüntü kaynağı olarak doğru cihazın seçili olduğundan emin olun.
- Harici cihaz veya kaynağın doğru şekilde bağlandığından emin olun.

**Ses var ama görüntü yok**

- Görüntü ayarlarının doğru olduğundan emin olun.

**Anten az çekiyor**

- Antenin TV'ye doğru şekilde bağlı olduğundan emin olun.
- Hoparlörler, topraklanmamış ses cihazları, neon ışıklar, yüksek binalar ve diğer büyük cisimler alım kalitesini etkileyebilir. Mümkünse anten yönünü değiştirerek ya da cihazları TV'den uzaklaştırarak alım kalitesini artırmaya çalışın.
- Alım yalnızca bir kanalda zayıfsa kanala Manuel Kurulum ile ince ayar yapın.

**Cihazdan gelen görüntü kötü**

- Cihazın doğru şekilde bağlandığından emin olun.
- Görüntü ayarlarının doğru olduğundan emin olun.

**Görüntü ekrana sığmıyor**

Farklı bir görüntü formatına geçin.

**Görüntü doğru konumda değil**

Bazı cihazlardan gelen görüntü sinyalleri ekrana doğru şekilde oturmaz. Bağlı cihazın sinyal çıkışını kontrol edin.

**Bilgisayar görüntüsü sabit değil**

Bilgisayarınızın desteklenen çözünürlüğü ve yenileme hızını kullandığından emin olun.

## Ses

### Ses yok veya kalitesi kötü

TV ses sinyali algılamazsa otomatik olarak ses çıkışını kapatır. Bu, arıza olduğu anlamına gelmez.

- Ses ayarlarının doğru şekilde ayarlandığından emin olun.
- Tüm kabloların doğru şekilde bağlandığından emin olun.
- Sesin kapatılmadığından veya sıfıra ayarlanmadığından emin olun.
- TV ses çıkışının Ev Sinema Sistemi ses girişine bağlı olduğundan emin olun.

Ses, HTS hoparlörlerinden duyulmalıdır.

- Bazı cihazlar HDMI ses çıkışını manuel olarak etkinleştirmenizi gerektirebilir. HDMI ses etkinleştirildiği halde hala ses duyamıyorsanız cihazın dijital ses formatını PCM'ye (Darbe Kodu Modülasyonu) değiştirmeyi deneyin. Talimatlar için cihazınızla birlikte verilen belgelere bakın.

## Bağlantılar

### HDMI

- HDCP (Yüksek Bant Genişliğine Sahip Dijital İçerik Koruması) desteği, TV'nin HDMI cihazından gelen içeriği görüntülemesinde gecikmeye neden olabilir.
- TV HDMI cihazını algılamıyorsa ve görüntü yoksa kaynağı bir cihazdan başka bir cihaza geçirin ve daha sonra geri alın.
- Ses aralıklı olarak kesiliyorsa HDMI cihazından çıkış ayarlarının doğru olduğundan emin olun.
- HDMI - DVI adaptörü veya HDMI - DVI kablosu kullanıyorsanız varsa ek bir ses kablosunun AUDIO IN (yalnızca mini jak) girişine bağlandığından emin olun.

### EasyLink çalışmıyor

- HDMI cihazların HDMI-CEC ile uyumlu olduğundan emin olun. EasyLink özellikleri yalnızca HDMI-CEC ile uyumlu olan cihazlarla çalışır.

### Ses simgesi gözüküyor

- Bir HDMI-CEC ses cihazı bağlandığında bu durum normaldir.

### USB cihazındaki fotoğraflar, videolar ve müzikler gözüküyor

- USB depolama cihazının depolama cihazı belgelerinde belirtilen şekilde Yığın Depolama Sınıfı uyumlu olarak ayarlandığından emin olun.
- USB depolama cihazının TV ile uyumlu olduğundan emin olun.
- Ses ve görüntü dosyası formatlarının TV tarafından desteklendiğinden emin olun.

### USB dosyaları kesik kesik oynatılıyor

- USB depolama cihazının aktarım performansı, TV'ye

veri aktarma hızını sınırlayarak kötü kaliteli oynatmaya neden olabilir.

## Wi-Fi, İnternet ve Bluetooth

### Wi-Fi ağı bulunamadı veya bozuk

- Yakınızdaki bulunan mikrodalga fırınlar, DECT telefonlar veya diğer Wi-Fi 802.11b/g/n/ac cihazları kablosuz ağı bozabilir.
- Ağınızdaki güvenlik duvarlarının TV'nin kablosuz bağlantısına erişime izin verdiğinden emin olun.
- Kablosuz ağ evinizde düzgün çalışmıyorsa kablolu ağ kurmayı deneyin.

### İnternet çalışmıyor

- Yönlendirici bağlantısında sorun yoksa yönlendiricinin İnternet bağlantısını kontrol edin.

### PC ve İnternet bağlantısı yavaş

- İç mekanlardaki kapsama alanı, aktarım hızı ve sinyal kalitesi ile ilgili diğer faktörler hakkında bilgi edinmek için kablosuz yönlendiricinin kullanım kılavuzuna bakın.
- Yönlendiriciniz için yüksek hızlı (geniş bant) İnternet bağlantısı kullanın.

### DHCP

- Bağlantı kurulamazsa yönlendiricinin DHCP (Dinamik Bilgisayar Yapılandırma Protokolü) ayarını kontrol edebilirsiniz. DHCP açılmalıdır.

### Bluetooth bağlantısı kaybedildi

- Birçok kablosuz yönlendiricinin bulunduğu yüksek miktarda kablosuz aktivite içeren alanlarda kablosuz bağlantı sorunu yaşanabilir.

## Ağ

### Wi-Fi ağı bulunamadı veya bozuk

- Yakınızdaki bulunan mikrodalga fırınlar, DECT telefonlar veya diğer Wi-Fi 802.11b/g/n/ac cihazları kablosuz ağı bozabilir.
- Ağınızdaki güvenlik duvarlarının TV'nin kablosuz bağlantısına erişime izin verdiğinden emin olun.
- Kablosuz ağ evinizde düzgün çalışmıyorsa kablolu ağ kurmayı deneyin.

### İnternet çalışmıyor

- Yönlendirici bağlantısında sorun yoksa yönlendiricinin İnternet bağlantısını kontrol edin.

### PC ve İnternet bağlantısı yavaş

- İç mekanlardaki kapsama alanı, aktarım hızı ve sinyal kalitesi ile ilgili diğer faktörler hakkında bilgi edinmek için kablosuz yönlendiricinin kullanım kılavuzuna bakın.
- Yönlendiriciniz için yüksek hızlı (geniş bant) İnternet bağlantısı kullanın.

### DHCP

- Bağlantı kurulamazsa yönlendiricinin DHCP (Dinamik Bilgisayar Yapılandırma Protokolü) ayarını kontrol

edebilirsiniz. DHCP açılmalıdır.

---

13.2

## Çevrimiçi Yardım

Philips TV ile ilgili herhangi bir sorunu çözmek için çevrimiçi destek hizmetimize başvurabilirsiniz. Dilinizi seçebilir ve ürün model numarasını girebilirsiniz.

[www.philips.com/support](http://www.philips.com/support) adresine gidin

Destek sayfasında ülkenizde bize ulaşabileceğiniz telefon numarasını ve ayrıca sık sorulan soruların (SSS) yanıtlarını bulabilirsiniz. Bazı ülkelerde temsilcilerimizle sohbet etme ve sorularınızı doğrudan ya da e-posta yoluyla yöneltme seçeneği de sunulmaktadır.

Yeni TV yazılımını veya kılavuzunu bilgisayarınızda okumak için indirebilirsiniz.

---

13.3

## Destek ve Onarım

Destek ve tamirat için ülkenizdeki Müşteri Destek Merkezi'nin numarasını arayabilirsiniz. Servis mühendislerimiz, gerektiğinde onarım gerçekleştirir.

Telefon numarası, TV ile birlikte verilen basılı belgelerde bulunmaktadır.

Alternatif olarak [www.philips.com/support](http://www.philips.com/support) web sitemize başvurun ve gerekirse ülkenizi seçin.

### TV model numarası ve seri numarası

TV ürün model numarası ve seri numarasını vermeniz istenebilir. Bu numaraları ambalaj etiketinde veya TV'nin arkasında veya alt kısmındaki tip etiketinde bulabilirsiniz.

### ⚠ Uyarı

TV'nizi tamir etmeye kalkışmayın. Bu, ciddi yaralanmalara, TV'nizin tamir edilemez bir şekilde zarar görmesine veya garantinizin geçersiz kalmasına neden olabilir.

# Güvenlik ve Bakım

## 14.1

### Güvenlik

#### Önemli

TV'nizi kullanmadan önce tüm güvenlik talimatlarını okuyun ve anlayın. Talimatların hatalı uygulanmasından kaynaklanan hasarlarda garanti geçerli değildir.

Üreticinin izni olmadan bu ekipmanda değişiklik yapmayın.

#### Elektrik Çarpması veya Yangın Riski

- TV'yi asla yağmura veya suya maruz bırakmayın. TV'nin yanına vazo gibi içi su dolu nesneler koymayın.
- TV'nin üzerine veya içine sıvı dökülmesi durumunda TV'nin güç kablosunu elektrik prizinden hemen çıkarın.
- TV'nizi kullanmadan önce Philips TV Müşteri Destek Merkezi'ne kontrol ettirin.
- TV'yi, uzaktan kumandayı veya pilleri kesinlikle aşırı ısıya maruz bırakmayın. Bunları kesinlikle yanan mumların, açık alevlerin veya doğrudan güneş ışığı gibi diğer ısı kaynaklarının yanına yerleştirmeyin.
- TV'nin havalandırma açıklıklarından veya diğer açıklıklarından içeri asla nesne sokmayın.
- Güç kablosunun üzerine kesinlikle ağır cisimler koymayın.
- Kablo fişini darbelere karşı koruyun. Sıkı durmayan fişler kıvılcım sıçramasına veya yangına neden olabilir. TV ekranını döndürürken güç kablosunun gerilmediğinden emin olun.
- TV'nin güç bağlantısını kesmek için TV'nin elektrik fişi prizden çekilmelidir. Gücü keserken, her zaman kabloyu değil fişi çekmeye dikkat edin. Her zaman fiş, güç kablosu ve prize tam olarak erişim sağlayabilmeniz gerekir.

#### Yaralanma veya TV'de Hasar Oluşması Riski

- 25 kilo veya 55 lb'den daha ağır olan TV'leri kaldırmak ve taşımak için iki kişi gereklidir.
- TV'yi stand üzerine monte ediyorsanız sadece birlikte verilen standı kullanın. Standı TV'ye sıkıca sabitleyin.
- TV'yi, TV'nin ve standın ağırlığını taşıyabilecek güçte düz ve yatay bir yüzey üzerine yerleştirin.
- Duvara monte ederken, duvar montaj tertibatının TV

setinin ağırlığını güvenli bir şekilde taşıyabileceğinden emin olun. TP Vision kaza, yaralanma veya hasara neden olacak şekilde yapılan uygunsuz duvar montajlarıyla ilgili hiçbir sorumluluğu kabul etmemektedir.

- Bu ürünün bazı parçaları camdan üretilmiştir. Yaralanma ve hasara karşı dikkatli taşıyın.

#### TV'nin zarar görme riski!

TV'yi prize bağlamadan önce, gerilim değerinin TV'nin arka kısmında belirtilen değerle aynı olduğundan emin olun. Gerilim değerleri birbirinden farklıysa TV'yi kesinlikle prize bağlamayın.

#### Dengesizlik Tehlikeleri

Televizyon seti düşerek ciddi yaralanmalara veya ölüme neden olabilir. Özellikle çocuklarda görülen pek çok yaralanmanın, aşağıdakiler gibi basit önlemler alınarak önüne geçilebilir:

- Televizyon setinin destekleyici mobilyanın kenarından çıkıntı yapmadığından HER ZAMAN emin olun.
- DAİMA televizyon seti üreticisi tarafından önerilen dolapları, standları veya montaj yöntemlerini kullanın.
- DAİMA televizyon setini güvenli bir şekilde destekleyebilen mobilyalar kullanın.
- Çocuklara DAİMA mobilyaların üzerine çıkıp Televizyon setine veya kumandalarına ulaşmaya çalışmanın tehlikelerinden bahsedin.
- DAİMA televizyonunuza bağlı kabloları doğru yerleştirerek kabloları takılıp düşme veya kabloları çekme ihtimalini ortadan kaldırın.
- Televizyon setini ASLA dengesiz bir yere koymayın.
- Televizyon setini, hem mobilyaları hem de televizyon setini uygun bir desteğe sabitlemeden ASLA uzun mobilyaların (örneğin dolaplar veya kitaplıklar) üzerine koymayın.
- Televizyon setini ASLA televizyon setiyle destek mobilyasının arasına koyulan bir bez veya diğer malzemelerin üzerine yerleştirmeyin.
- Oyuncak ve uzaktan kumanda gibi çocukların tırmanarak erişmek isteyebileceği nesneleri ASLA televizyonun veya televizyonun bulunduğu mobilyaların üzerine yerleştirmeyin.

Mevcut televizyon seti yeri değiştirilerek kullanılacaksa yukarıdakilerle aynı hususlar geçerlidir.

#### Pillere İlişkin Riskler

- Pili yutmayın. Kimyasal yanık tehlikesi vardır.
- Uzaktan kumandada düğme pil bulunabilir. Bu düğme pil yutulursa 2 saat içinde ciddi iç yanıklara sebep olabilir ve ölüme yol açabilir.
- Yeni ve kullanılmış pilleri çocuklarınızdan uzak tutun.
- Pil bölmesi emniyetli bir şekilde kapanmıyorsa ürünü kullanmayı bırakın ve çocuklarınızdan uzak tutun.

- Pillerin yutulduğunu ya da vücuda girdiğini düşünüyorsanız derhal tıbbi yardım alın.
- Yanlış tipte bir pil takılması durumunda patlama ya da yangın riski vardır.
- Bir pilin yanlış tipte bir pille değiştirilmesi sigortayı devreden çıkarabilir (ör. bazı lityum pil tipleri takılırsa).
- Pilin ateşe veya sıcak fırına atılarak, mekanik olarak ezilerek ya da kesilerek bertaraf edilmesi patlamaya neden olabilir.
- Pilin aşırı yüksek sıcaklıktaki bir ortamda bırakılması patlamaya ya da yanabilir sıvı veya gaz sızıntısına neden olabilir.
- Pilin aşırı düşük hava basıncına maruz bırakılması patlamaya ya da yanabilir sıvı veya gaz sızıntısına neden olabilir.

## Aşırı Isınma Riski

TV'yi hiçbir zaman etrafında yeterli boşluk olmayan bir alana kurmayın. Havalandırma için TV'nin çevresinde her zaman en az 10 cm boş alan bırakın. Perdelerin veya başka eşyaların TV'nin havalandırma deliklerini kapatmasına engel olun.

## Şimşekli Fırtınalar

Şimşekli fırtınalar öncesinde TV'nin güç ve anten bağlantılarını kesin. Şimşekli fırtınalar sırasında TV'ye, güç kablosuna veya anten kablosuna asla dokunmayın.

## İşitme Duyusunun Zarar Görmesi Riski

Yüksek ses seviyelerinde veya uzun süre boyunca kulaklık kullanmaktan kaçının.

## Düşük Sıcaklıklar

TV'nin nakliyesi, 5°C'den düşük sıcaklıklarda yapılmışsa TV'nin ambalajını açın ve TV'yi prize takmadan önce TV'nin ortam sıcaklığına ulaşmasını bekleyin.

## Nem oranı

Nadir durumlarda, sıcaklık ve neme bağlı olarak TV ön camının içerisinde küçük yoğunlaşmalar oluşabilir (bazı modellerde). Bunu önlemek için TV'yi doğrudan güneş ışığına, ısıya veya neme maruz bırakmayın. Yoğunlaşma oluşursa TV birkaç saatliğine çalıştırıldığı zaman kendiliğinden kaybolacaktır. Rutubet yoğunlaşması TV'ye zarar vermez ya da arızaya yol açmaz.

14.2

## Ekran Bakımı

- Ekrana herhangi bir nesne ile dokunulmamasını, ekranın itilmemesini, sürtülmemesini ve çizilmemesini sağlayın.
- Temizlik öncesinde TV'nin fişini çıkarın.
- TV'yi ve kasasını yumuşak ve nemli bir bezle silin. TV'yi temizlemek için kesinlikle alkol, kimyasal maddeler veya ev temizlik ürünleri kullanmayın.
- Şekil bozukluğu oluşmasını veya renk solmasını engellemek için su damlacıklarını olabildiğince çabuk silin.
- Sabit görüntülerden mümkün olduğunca kaçının. Sabit görüntüler, ekranda uzun süre kalan görüntülerdir. Sabit görüntüler arasında ekran menüleri, siyah çubuklar, saat ekranları vb. bulunmaktadır. Hareketsiz görüntüler kullanmak zorundaysanız ekranın zarar görmesini önlemek için ekran kontrastını ve parlaklığını azaltın.

14.3

## Radyasyona Maruz Kalma Bildirimi (yalnızca dahili Wi-Fi için)

Bu ekipman, kontrolsüz bir ortam için belirlenen AT radyasyona maruz kalma sınırlarına uygundur. Bu ekipman, yayıcı ile gövde arasında en az 20 cm mesafe olacak şekilde kurulmalı ve çalıştırılmalıdır.

AB'deki frekans, mod ve iletilen maksimum güç değerleri aşağıda listelenmiştir:

-2400-2483,5 MHz: < 20 dBm (EIRP), yalnızca 2,4 G ürün için.

-5150-5250 MHz: < 23 dBm (EIRP)

-5250-5350 MHz: < 23 dBm (EIRP)

-5470-5725 MHz: < 27 dBm (EIRP)

-5725-5825 MHz: < 13,98 dBm (EIRP)

# Kullanım Koşulları

## 15.1

### Kullanım Şartları – TV

2020 © TP Vision Europe B.V. Tüm hakları saklıdır.

Bu ürün, ürünün üreticisi olan ve burada TP Vision olarak anılacak olan TP Vision Europe B.V. veya bağlı şirketlerinden biri tarafından pazara sunulmuştur. Bu kitapçıkla birlikte ambalajlanan TV'nin garantörü TP Vision'dır. Philips ve Philips Kalkan Amblemi, Koninklijke Philips N.V. şirketinin tescilli ticari markalarıdır.

Teknik özellikler önceden bildirilmeksizin değiştirilebilir. Ticari markalar, Koninklijke Philips Electronics N.V. şirketine veya ilgili hak sahiplerine aittir. TP Vision, daha önce yapılan sevkiyatlarda ayarlama yapma yükümlülüğü olmaksızın ürünleri herhangi bir zamanda değiştirme hakkını saklı tutar.

TV ile ambalajlanan yazılı içeriğin ve TV'nin belleğinde bulunan ya da [www.philips.com/support](http://www.philips.com/support) adresindeki Philips web sitesinden indirilen kılavuzun sistemin kullanım amacı için yeterli olduğu düşünülmektedir.

Bu kılavuzda bulunan içeriğin sistemin kullanım amacı için yeterli olduğu düşünülmektedir. Ürün, bağımsız modülleri veya prosedürleri burada belirtilenler dışındaki amaçlar için kullanılacaksa geçerlilik ve uygunluk onayı alınmalıdır. TP Vision, içeriğin herhangi bir ABD patentini ihlal etmediğini garanti eder. Açık veya zımni başka hiçbir garanti verilmez. TP Vision bu belgenin içeriğindeki hatalar veya bu belgenin içeriğinden kaynaklanan sorunlar için sorumlu tutulamaz. Philips'e bildirilen hatalar mümkün olan en kısa sürede düzeltilecek ve Philips destek web sitesinde yayınlanacaktır.

Garanti şartları: Yaralanma riski, TV'de hasar oluşması veya garantinin geçersiz olduğu durumlar! TV'nizi kendiniz tamir etmeyi kesinlikle denemeyin. TV'yi ve aksesuarları yalnızca üreticinin amaçladığı şekilde kullanın. TV'nin arka tarafına basılı olan uyarı işareti, elektrik çarpması riskini belirtir. TV'nin kapağını asla açmayın. Servis veya onarım hizmeti almak için her zaman Philips TV Müşteri Destek Merkezi ile irtibata geçin. Telefon numarası TV ile birlikte verilen basılı belgelerde bulunmaktadır. Alternatif olarak [www.philips.com/support](http://www.philips.com/support) adresindeki web sitemize başvurun ve gerekirse ülkenizi seçin. Bu kılavuzda açık olarak yasaklanan kullanımlar ya da bu kılavuzda önerilmeyen veya izin verilmeyen değişiklikler veya montaj prosedürleri garantiyi geçersiz kılar.

#### Piksel özellikleri

Bu TV ürünü çok sayıda renkli piksele sahiptir. %99,999 oranında veya daha fazla etkin piksele sahip

olsa da ekranda sürekli olarak siyah noktalar veya parlak ışık noktaları (kırmızı, yeşil veya mavi) görünebilir. Bu, ekranın yapısal özelliğinden kaynaklanır (ortak endüstri standartları dahilinde) ve bir arıza değildir.

#### CE uyumluluğu

TP Vision Europe B.V. bu televizyonun, 2014/53/EU (RED), 2009/125/EC (Eco Design) ve 2011/65/EC (RoHS) Direktiflerinin temel gereksinimlerini karşıladığını ve diğer ilgili hükümleriyle uyumlu olduğunu beyan eder.

#### EMF uyumluluğu

TP Vision tüketiciler için her elektronik cihaz gibi genel olarak elektromanyetik sinyal verme ve alma özelliğine sahip olan birçok ürün üretmekte ve satmaktadır. TP Vision'ın önde gelen iş ilkelerinden biri, ürünlerimiz için tüm gerekli sağlık ve güvenlik önlemlerini almak, tüm geçerli yasal şartlara uyum sağlamak ve ürünlerin üretildiği tarihte geçerli olan Elektro Manyetik Alan (EMF) standartlarına bağlı kalmaktır.

TP Vision, sağlık üzerinde olumsuz etkileri olmayan ürünler geliştirmeyi, üretmeyi ve pazarlamayı hedefler. TP Vision, amaçlanan kullanım için doğru şekilde çalıştırıldıkları süre boyunca ürünlerinin kullanımının bugünkü bilimsel kanıtlara göre güvenli olduğunu onaylar. TP Vision, uluslararası EMF ve güvenlik standartlarının geliştirilmesinde etkin rol oynamakta ve bu sayede standartlaştırma gelişmelerini ürünlerine erkenden entegre edebilmektedir.

## Telif hakları

### 16.1

#### HDMI

##### HDMI

HDMI, HDMI High-Definition Multimedia Interface terimleri ve HDMI Logosu Amerika Birleşik Devletleri'nde ve diğer ülkelerde HDMI Licensing Administrator, Inc. ye ait ticari veya tescilli ticari markalardır.



### 16.2

#### Dolby Audio

Dolby Laboratories lisansı altında üretilmiştir. Dolby, Dolby Audio ve çift D sembolü, Dolby Laboratories'in ticari markalarıdır. Gizli yayınlanmamış çalışmalar. Telif Hakkı 1992-2020 Dolby Laboratories. Tüm hakları saklıdır.



### 16.3

#### DTS-HD Premium Sound™

##### DTS-HD Premium Sound™

DTS patentleri için bkz. <http://patents.dts.com>. DTS Licensing Limited tarafından verilen lisans kapsamında üretilmiştir. DTS, the Symbol, & DTS ve the Symbol birlikte, DTS-HD ve DTS-HD logosu DTS, Inc. şirketinin Amerika Birleşik Devletleri ve/veya diğer ülkelerdeki ticari markası ve/veya tescilli ticari markalardır. © DTS, Inc. Tüm Hakları Saklıdır.



## Wi-Fi Alliance

### Wi-Fi

Wi-Fi CERTIFIED™ Logosu, Wi-Fi Alliance® şirketinin tescilli ticari markasıdır



### 16.5

## Kensington

### Kensington

(Varsa)

Kensington ve Micro Saver, ACCO World Corporation'ın ABD'de tescilli ticari markaları ve diğer ülkelerde tescil başvurusu yapılmış ve beklemede olan ticari markalardır.



### 16.6

## Diğer Ticari Markalar

Diğer tüm tescilli veya tescilsiz ticari markalar ilgili sahiplerinin mülkiyetindedir.

# Üçüncü tarafların sağladığı hizmetlerle ve/veya yazılımlarla ilgili sorumluluk reddi

Üçüncü tarafların sağladığı hizmetler ve/veya yazılımlar önceden bildirimde bulunmaksızın değiştirilebilir, askıya alınabilir veya iptal edilebilir. TP Vision bu durumlarda sorumlu tutulamaz.



# Dizin

## A

Açma 8  
Açık Kaynaklı yazılım 38  
Akıllı Kart, CAM 13  
Altyazı 33  
Altyazı Dili 33  
Altyazı Dili, Birincil 34  
Altyazı Dili, İkincil 34  
Ana sayfa 22  
Android Ayarları 33  
Ağ Kurulumu 31  
Ağ, ayarlar 32  
Ağ, bağlama 31  
Ağ, Kablolu 32  
Ağ, PIN kodlu WPS 31

## Ç

Çevrimiçi destek 187  
Çocuk Kilidi 30

## Ü

Ürün Verileri 9

## B

Bağlantı Kılavuzu 12  
Bekleme 8  
Bilgisayar, bağlantı 15  
Blu-ray Disk oynatıcı, bağlantı 14

## C

CAM, Koşullu Erişim Modülü 13  
CI+ 13

## D

Destek, çevrimiçi 187

## E

Eko Ayarları 29  
Ekran bakımı 189  
Evrensel Erişim 30

## F

Fotoğraflar, Videolar ve Müzik 17

## G

Görüntü Tarzı 27  
Görüntü, görüntü formatı 29  
Güç kablosu 4  
Güç tüketimi kontrolü 29  
Güvenlik Talimatları 188

## I

İnternet belleği, silme 32

## K

Kablolu Ağ 32  
Kablosuz Ağ 31  
Kanal 33  
Kanal Listesi 33  
Kanal Listesi, açma 33  
Kanal Listesi, hakkında 33  
Kanal, kanal değiştirme 33  
Kanal, Kurulum 34  
Kanal, Seçenekler 33

Kanal, Uydu Kurulumu 34  
Kanal, Yeniden Kurma 34  
Kanaldaki Seçenekler 33  
Keskinlik, MPEG Parazit Azaltma 28  
Kontrast, Dinamik Kontrast 28  
Kontrast, Kontrast Modu 28  
Kullanım Koşulları 190  
Kullanım sonu 9

## M

Müşteri Desteği 187  
MPEG Parazit Azaltma 28

## O

Onarım 187  
Ortak Arayüz Yuvası 13  
Ortam 17  
Ortam dosyaları, USB sürücünden 17  
Oyun Konsolu, bağlantı 15

## P

Philips ile iletişim 187

## R

Radio istasyonları 33  
Renk, Renk gamı 28

## S

Ses Dili 34  
Ses Dili, Birincil 34  
Ses Dili, İkincil 34  
Ses tarzları 29  
Sorun giderme 185  
Sorunlar, Bağlantı, Wi-Fi 186  
Sorunlar, Bağlantı, İnternet 186  
Sorunlar, Görüntü 185  
Sorunlar, HDMI Bağlantısı 186  
Sorunlar, Kanallar 185  
Sorunlar, Ses 186  
Sorunlar, USB Bağlantısı 186  
Sorunlar, Uzaktan kumanda 185

## T

TV ağı adı 32  
TV veya pilleri atma 9  
TV yerleştirme 4  
TV İzleme 33

## W

Wi-Fi 31

## Y

Yazılım, Güncelleme 36

## İ

İçerik sınıfı kilidi 30  
İzleme mesafesi 4  
İşitme güçlüğü 30



## Contact information

**Albania/Shqipërisë**  
+355 44806061

**Andorra**  
+34 915 909 335

**Armenia**  
0-800-01-004

**Austria/Österreich**  
0150 2842133

**Belarus/Беларусь**  
8 10 800 2000 00 04

**Belgium/België/Belgique**  
02 7007360

**Bulgaria/България**  
0 0800 1154426  
+359 2 4916273

**Croatia/Hrvatska**  
0800 222 782

**Czech Republic/Česká republika**  
800 142100

**Denmark/Danmark**  
352 587 61

**Estonia/Eesti Vabariik**  
800 0044 307

**Finland/Suomi**  
09 229 019 08

**France**  
01 57324070

**Georgia/საქართველო**  
800 00 00 80

**Germany**  
0696 640 4383

**Greece/Ελλάδα**  
0 0800 4414 4670

**Greece Cyprus**  
800 92 256

**Hungary/Magyarország**  
068 001 85 44  
(06 1) 700 8151

**Republic of Ireland/Poblacht na hÉireann**  
1 601 1161

**Northern Ireland/Tuaisceart Éireann**  
1 601 1161

**Italy/Italia**  
02 4528 7030

**Kazakhstan/Қазақстан**  
8 10 800 2000 0004

**Kosovo/Kosovës**  
+355 44806061

**Latvia/Latvija**  
800 03 448

**Lithuania/Lietuva**  
880 030 049

**Luxembourg/Luxemburg**  
26 84 3000

**Montenegro**  
+ 382 20 240 644

**Netherlands/Nederlands**  
010 4289533

**Norway/Norge**  
22 70 82 50

**Poland/Polska**  
022 203 0327

**Portugal**  
0800 780 902

**Romania/România**  
03 727 66905  
031 6300042

**Russia/Россия**  
8 (800) 220 0004

**Serbia/Srbija**  
+ 381 11 40 30 100

**Slovakia/Slovensko**  
0800 0045 51

**Slovenia**  
0800 80 255

**Spain/España**  
915 909 335

**Sweden/Sverige**  
08 6320 016

**Switzerland/Schweiz/Suisse**  
223 102 116

**Turkey/Türkiye**  
0 850 222 44 66

**Ukraine/Україна**  
0 800 500 480

**United Kingdom**  
020 7949 0069

This information is correct at the time of print. For updated information, see [www.philips.com/support](http://www.philips.com/support).



Specifications are subject to change without notice.  
Trademarks are the property of Koninklijke Philips N.V. or their respective owners.  
2020 © TP Vision Europe B.V. All rights reserved.  
[www.philips.com](http://www.philips.com)

