

# The Open Source Media Toolbelt

---

An overview and review of the open source media-software market

# Licenses?

- Commercial use?
- Modifiability?
- Distribution?
- Warranty/Liability?
- Source disclosure?
- Stating changes?

See [tldrlegal.com](https://tldrlegal.com) for explanations!



- Graphics
  - 3D
  - Vector Graphics
  - Photography
  - Digital Painting
- Video
  - Cutting
  - Compositing
  - Animation
  - Live
- Audio
  - DAW
  - Sound Generators
- Text
  - Screenwriting
  - Publishing

## Types of Media

---

# Graphics

---

# 3D - Blender



## 3D creation Suite

- Modelling
- Rigging
- Animation
- Simulation
- Rendering
- Compositing

GPLv3 (GPLv2, Apache 2.0, ...)

## Closed Source alternatives:

- Autodesk Maya
- Cinema 4D
- Zbrush
- After Effects

# 3D - Blender



3D creation Suite

GPLv3 (GPLv2, Apache 2.0, ...)

Review:

A unicorn. Somewhat hard to learn, but a very comprehensive package with a large community and very active development.

Closed Source alternatives:

- Autodesk Maya
- Cinema 4D
- Zbrush
- After Effects

No alternatives needed!



# Vectorgraphics - Inkscape



Use cases:

- Designing logos
- Creating web/app mockups

GPLv2

Closed Source alternatives:

- Adobe Illustrator
- Affinity Designer
- Corel DRAW Graphics Suite

Review:

Usable, but unintuitive Interface.  
Crashes sometimes.



# Photography - Gimp



Use cases:

- Photo retouche
- 2D raster-graphics

Review:

Stable, with a large quantity of tutorials. Development is active.

GPLv3

Closed Source alternatives:

- Adobe Photoshop
- Paint.NET
- Affinity Photo
- Corel Paint Shop Pro



# Photography - Darktable



Use cases:

- RAW development
- Image processing

Review:

Very nice structure and UI.  
Sadly no Windows build (yet).

GPLv3

Closed Source alternatives:

- Adobe Lightroom
- Affinity Photo
- DxO Optics Pro



# Photography - RawTherapee



Use cases:

- RAW development
- Image processing

GPLv3

Closed Source alternatives:

- Adobe Lightroom
- Affinity Photo
- DxO Optics Pro

Review:

Works, but is less intuitive and seemed to create 'funky' colors.

# Photography - Hugin



Use cases:

- Creating panoramas
- Creating HDRIs

GPLv2

Closed Source alternatives:

- Adobe Photoshop
- Microsoft ICE

Review:

Has some stitching problems, but works well in general.



# Photography – Luminance HDR

Use cases:

- Creating High Dynamic Range Images

GPL

Closed Source alternatives:

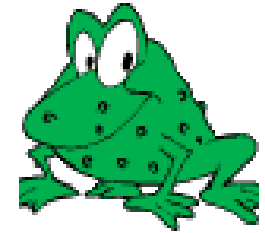
- Adobe Photoshop/Lightroom
- Corel PaintShop Pro

Review:

Interface is cryptic and usage is trial and error. Does what it should.



# Graphics – Image/GraphicsMagick



Use case:

MIT Style

- Do anything with graphics on the commandline
- Convert/Resize batches of images

Review:

Works great, but I have to google the commands every time...



# Digital Painting - MyPaint



Use case:

- Scribbling/Sketching
- Digital Drawingboard

GPLv2 / ISC

Closed Source alternatives:

- Autodesk SketchBook

Review:

Some of the brushes feel very nice, but I would not use it for painting.



# Digital Painting - Krita



Use case:

- Creating Conceptart
- Drawing Textures

Review:

Optically very nice software, but always had performance issues. (With my hardware!)

GPL

Closed Source alternatives:

- Adobe Photoshop
- Corel Painter
- Art Rage
- Mischief

# Video

---



# Cutting - Shotcut



## Use cases:

- Creating a short demo of your awesome software

## GPLv3

## Closed Source alternatives:

- Adobe Premiere Pro
- Lightworks

## Review:

Nice and simple UI. Does what it should, but some filters are named weirdly.

# Video - FFMpeg



Use cases:

GPLv2

- Manipulating Video from the commandline
- Watermark in the center of the screen:

```
ffmpeg -i input.mp4
       -i logo.png
       -filter_complex "overlay=
(main_w-overlay_w)/2:
(main_h-overlay_h)/2"
       -codec:a copy output.mp4
```

# Cutting – Honorable Mentions

- PiTiVi
  - Cinerella
  - OpenShot
  - KDenlive
-

# Compositing - Natron



Use cases:

- Creating VFX for movies

GPLv2

Closed Source alternatives:

- Adobe After Effects
- Apple Motion

Review:

Intimidating Interface;  
Professional-grade software



# Animation - OpenToonz



Use cases:

- Animating the next ASDF movie
- Spicing up your website

Modified BSD and others

Closed Source alternatives:

- Adobe Animate
- Toon Boom Harmony

Review:

It has been used in almost all Studio Ghibli movies.



# Animation - Synfig



Use cases:

- Animating the next ASDF movie
- Spicing up your website

GPLv2

Closed Source alternatives:

- Adobe Animate
- Toon Boom Harmony

Review:

Looks promising





# Live – Open Broadcaster Software

Use cases:

- Recording your screen
- Streaming your programming live to twitch

Review:

Works reliably.

GPLv2

Closed Source alternatives:

- XSplit Broadcaster
- Fraps
- Gameshow
- Camtasia Studio

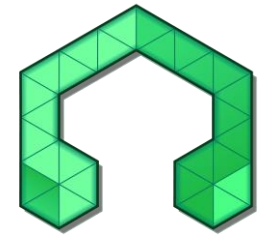


# Audio

---



# DAW - LMMS



Use cases:

- Make music
- Make ... interesting sounds

GPLv2

Closed Source alternatives:

- Fruity Loops
- Ableton Live

Review:

Virtual Instruments and Effects are already bundled! Nice to play with.

# DAW - Ardour



Use cases:

- Record your new album
- Create the soundtrack for your next movie

Review:

A nice DAW, though a bit less intuitive that commercial software.

GPLv2

Closed Source alternatives:

- Apple Logic Pro
- Cakewalk Sonar
- Steinberg Cubase



# DAW - Audacity



Use cases:

GPLv2

- Quick recordings

Review:

Repulsive UI, but works if you need small projects done quickly.

---

# Honorable Mentions

- KXStudio
    - A Linux distribution with preinstalled Audio software.
  - Sfxr
    - Chiptune sound generator
  - JACK and the whole Linux-Audio-Landscape
-

**Text**

---

# Layout - LaTeX

Use cases:

- Writing your next term paper
- Make presentations
- Make Graphics

LPPL and TUG

# Layout - Scribus



Use cases:

- Publish your own magazine or manual

Review:

Incredibly finicky, but the only available open source option.

GPLv2, MIT and BSD

Closed Source alternatives:

- Adobe InDesign
- Microsoft Office Publisher
- Apple iWork - Pages



# Writing - Trelby



Use cases:

- Write the next big drama

GPL

Closed Source alternatives:

- Celtx
- Adobe Story



# Conclusion

---

# Conclusion – A review of the Open Source Media Toolbelt

- There is a program for almost anything
  - Functionality often is on par or exceeds closed source programs through extendibility
  - CLIs are available
  - Most OSMT software is cross-platform
  - Many programs interconnect
  - UI and learning curve are the biggest obstacles for open source software
  - The larger the community the better
-

# Demo Time 😊

---

Feel free to eat pizza or leave

- Thank you for your attendance