

Graphics and Animation Tools

ACADEMIC SESSION 2020-21

B.Tech CSE –Open Source and Open Standards Sem VII

PRACTICAL WORK FILE

EXPERIMENT 1

Submitted To: Submitted By:

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EXPERIMENT-1: Introduction to GIMP and Blender

Objective:

To study about GIMP and Blender to gain insights on graphics and animation

Requirements:

A Ubuntu 18.04 10 running system with 6 GB RAM was used to carry out the steps to install GIMP and Blender.

Steps to Install GIMP 2.10 on Ubuntu 18.04

GIMP is a free and open-source raster graphics editor used for image manipulation and image editing, free-form drawing, transcoding between different image file formats, and more specialized tasks. GIMP is released under GPLv3+ license and is available for Linux, macOS, and Microsoft Windows.

Installation Using PPO -

- 1. Open terminal either via Ctrl+Alt+T keyboard shortcuts, or by searching for 'Terminal' from app launcher. Add the PPA for the gimp distribution. (ppa:otto-kesselgulasch/gimp)
- 2. After adding the PPA, upgrade to GIMP 2.10 from an existing release using Software Updater.

Installation Using Flatpak -

- 1. Navigate to https://gimp.org and find a link to download the latest flatpak release.
- 2. Run flatpak install https://flathub.org/repo/appstream/org.gimp.GIMP.flatpakref

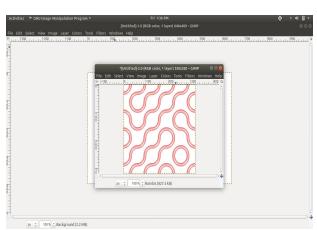
GIMP can also be installed on Ubuntu 18.04 using apt package manager by running -

- 1. sudo apt-get update
- sudo apt-get install gimp

SNAPSHOTS -

```
josharsh@HarshLappl:-

File Edit View Search Terminal Help
josharsh@HarshLappl:-$ sudo apt-get update
[sudo] password for josharsh:
Htt:1 http://in.archive.ubuntu.com/ubuntu bionic InRelease
Htt:2 http://in.archive.ubuntu.com/ubuntu bionic-updates InRelease
Htt:3 http://in.archive.ubuntu.com/ubuntu bionic-backports InRelease
Eti:3 http://pi.archive.ubuntu.com/ubuntu bionic-backports InRelease
Eti:4 http://psuchive.ubuntu.com/ubuntu bionic-seurity InRelease [88.7 kB]
Get:5 https://packages.microsoft.com/repos/vscode stable InRelease
Eti:5 https://pleosity.div.arghyg.com/debian stable InRelease
Htt:7 https://dl.yarnpkg.com/debian stable InRelease
Htt:8 https://api.postgresql.org/pub/repos/apt buster-ppdg InRelease
Eti:18 https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.2 InRelease
Htt:10 https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.2 InRelease
Htt:11 http://apt.postgresql.org/pub/repos/apt bionic-ppdg InRelease
Eti:12 https://pkg.pienkins.to/debian-stable binary/ InRelease
Eti:12 https://pkg.jenkins.to/debian-stable binary/ InRelease
Get:13 https://pkg.jenkins.to/debian-stable binary/ InRelease
Get:15 https://pkg.jenkins.to/debian-stable binary/ Release [2,044 B]
Ign:16 http://pkg.jenkins.to/debian-stable binary/ InRelease
Get:17 http://security.ubuntu.com/ubuntu bionic-security/main amd64 DEP-11 Metad
ata [48.9 kB]
Get:19 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 DEP-11 Metadata [57.1 kB]
```



Steps to Install Blender on Ubuntu 18.04

Blender is a free and open-source 3D computer graphics software toolset used for creating animated films, visual effects, art, 3D printed models, motion graphics, interactive 3D applications, virtual reality and computer games.

Installation from official website (https://blender.org)

- 1. Navigate to blender.org and find the downloads link on the website
- 2. Download the latest stable release
- 3. Blender can be launched by double-clicking the executable file upon.

Install from Snap Package Manager

1. Run \$ snap install blender on terminal.