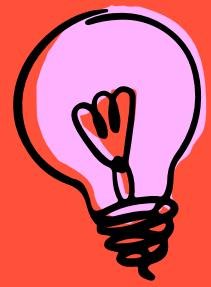


TheFOSSClub

# How to Contribute to open-source

Gulshan KumarPrasad  
*gulshanpr*





## where i have Contributed?

<https://github.com/MariaDB/server/pull/2855>

<https://github.com/MariaDB/server/pull/2810>

<https://github.com/celestiaorg/docs/commit/e97a111e3678fe2534753d16b9dd8211d6c898fc>



# Let me introduce you to open source



Open-source means software with its code freely accessible, allowing anyone to use, modify, and distribute it. It fosters collaboration, innovation, and community-driven development.

chatgpt

# OK!, but how about an analogy?

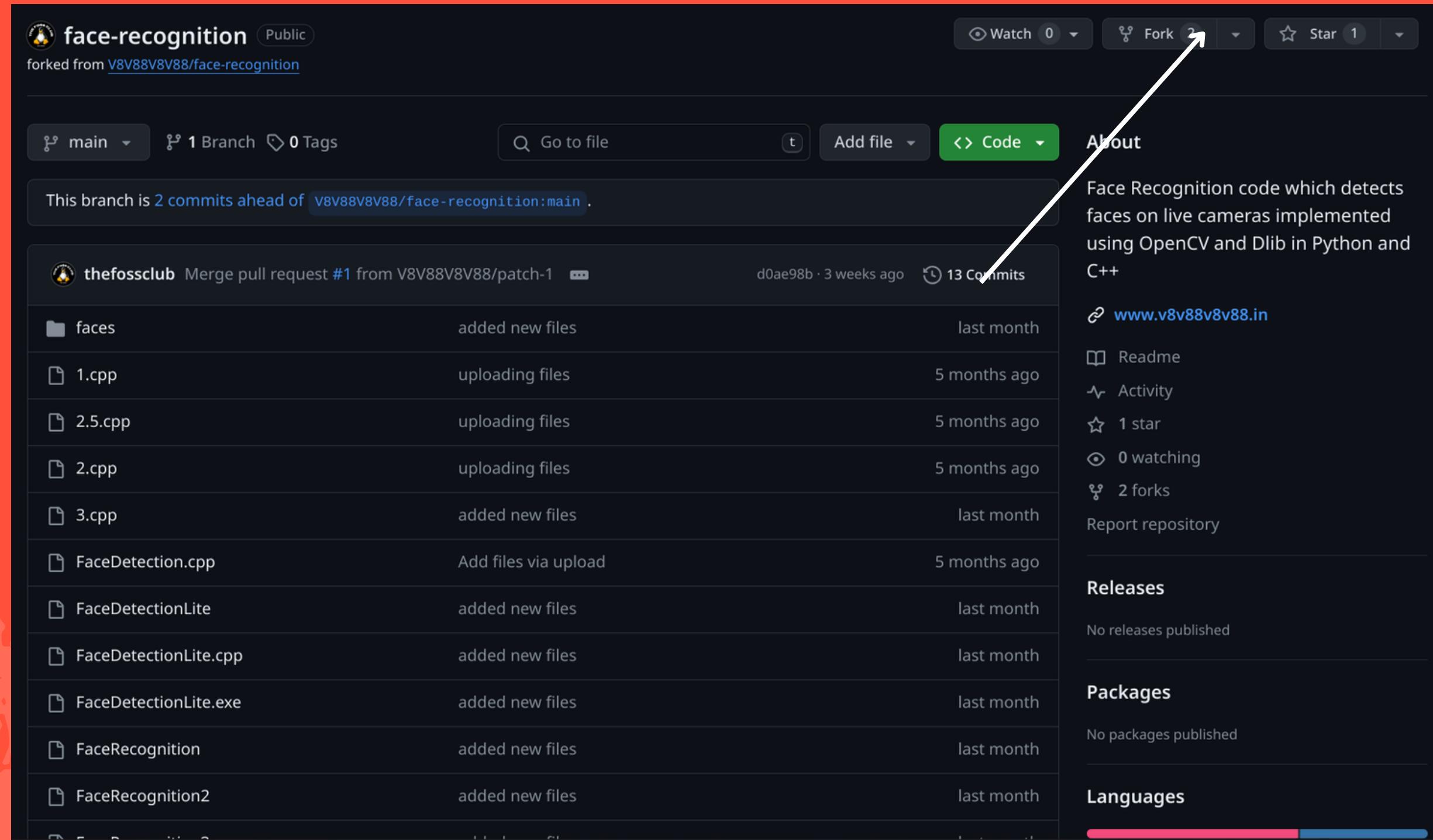
1. Recipe Access: Anyone can access the recipe.
2. Cooking Freedom: Anyone can cook the dish using the recipe.
3. Tweaking: Anyone can modify the recipe to suit their taste or for the community.
4. Suggestions: Suggestions for changes are encouraged.
5. Sharing: Anyone can use others' recipes.
6. Commercial Use: Even commercial use of the recipe is allowed.

# why to do open-source

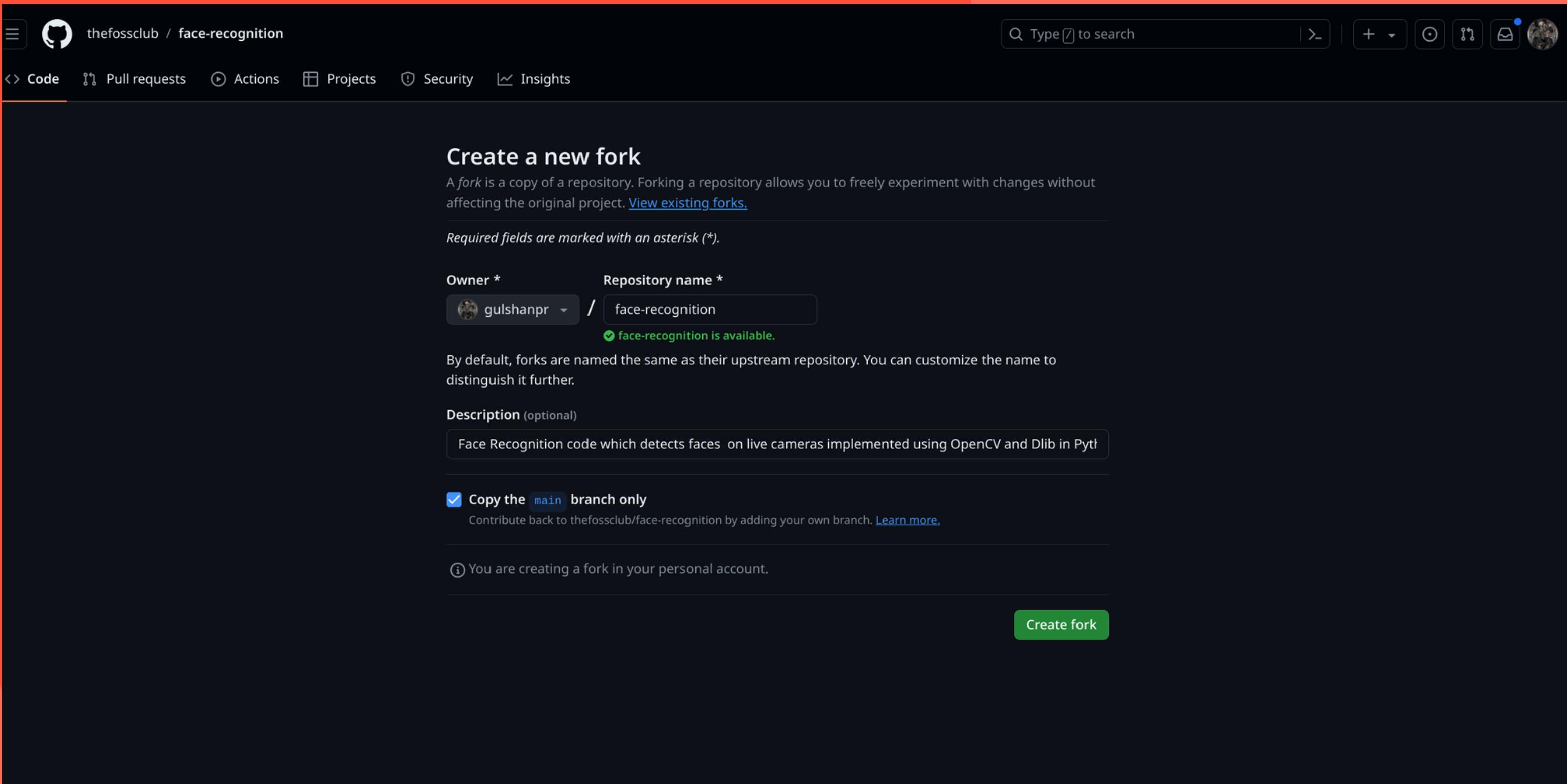


- 1.Better product
- 2.Power within user
- 3.Less Centralized
- 4.Secure && trustable
- 5.Experience

# 1. Fork the repository



# a. choose a name for your forked repo



The screenshot shows the GitHub interface for creating a new fork of a repository. At the top, the repository path 'thefossclub / face-recognition' is visible, along with a search bar and various navigation links like 'Code', 'Pull requests', 'Actions', 'Projects', 'Security', and 'Insights'. The main section is titled 'Create a new fork' and contains instructions: 'A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)' It also notes that required fields are marked with an asterisk (\*). The 'Owner' field is set to 'gulshanpr' and the 'Repository name' field is set to 'face-recognition', with a note that the name is available. A description field contains the text 'Face Recognition code which detects faces on live cameras implemented using OpenCV and Dlib in Pyth'. There is a checked checkbox for 'Copy the `main` branch only' and a note about contributing back to the upstream repository. A message at the bottom indicates that the fork is being created in the user's personal account. A prominent green 'Create fork' button is located at the bottom right.

thefossclub / face-recognition

Type ⌘ to search | + | ☰ | ☰ | ☰ | ☰ | ☰

Code Pull requests Actions Projects Security Insights

## Create a new fork

A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (\*).

Owner \* Repository name \*

gulshanpr / face-recognition

face-recognition is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)

Face Recognition code which detects faces on live cameras implemented using OpenCV and Dlib in Pyth

Copy the `main` branch only

Contribute back to thefossclub/face-recognition by adding your own branch. [Learn more.](#)

ⓘ You are creating a fork in your personal account.

Create fork

## b. your fork is created

The screenshot shows a GitHub repository page for a fork of the 'face-recognition' project. The repository is public and was forked from [the foss club/face-recognition](#). The main branch is up-to-date with the original repository. The repository contains several files and folders, including 'faces', '1.cpp', '2.5.cpp', '2.cpp', '3.cpp', 'FaceDetection.cpp', 'FaceDetectionLite', 'FaceDetectionLite.cpp', 'FaceDetectionLite.exe', 'FaceRecognition', and 'FaceRecognition2'. The last commit was made by 'the foss club' three weeks ago, with 13 commits and a hash of d0ae98b. The repository has 0 stars, 0 forks, and 0 watching.

Code

face-recognition Public

forked from [the foss club/face-recognition](#)

main 1 Branch 0 Tags

Go to file Add file Code

This branch is up to date with [the foss club/face-recognition:main](#).

Contribute Sync fork

**the foss club** Merge pull request [the foss club#1](#) from V8V8V8V88/patch-1 · d0ae98b · 3 weeks ago · 13 Commits

faces added new files last month

1.cpp uploading files 5 months ago

2.5.cpp uploading files 5 months ago

2.cpp uploading files 5 months ago

3.cpp added new files last month

FaceDetection.cpp Add files via upload 5 months ago

FaceDetectionLite added new files last month

FaceDetectionLite.cpp added new files last month

FaceDetectionLite.exe added new files last month

FaceRecognition added new files last month

FaceRecognition2 added new files last month

**About**

Face Recognition code which detects faces on live cameras implemented using OpenCV and Dlib in Python and C++

[www.v8v8v8v88.in](#)

Readme

Activity

0 stars

0 watching

0 forks

**Releases**

No releases published

[Create a new release](#)

**Packages**

No packages published

[Publish your first package](#)

**Languages**

## c. copy the url of the forked repo

The screenshot shows a GitHub repository page for a forked repository named "face-recognition". The repository is public and was forked from "thefossclub/face-recognition". The main branch is "main", and there is 1 branch and 0 tags. A merge pull request from "thefossclub" has been merged. The repository contains several files and folders, including "faces", "1.cpp", "2.5.cpp", "2.cpp", "3.cpp", "FaceDetection.cpp", "FaceDetectionLite", "FaceDetectionLite.cpp", "FaceDetectionLite.exe", "FaceRecognition", and "FaceRecognition2". The "Clone" section shows the HTTPS URL: <https://github.com/gulshanpr/face-recognition>. A large white arrow points to this URL.

face-recognition Public

forked from [thefossclub/face-recognition](#)

main 1 Branch 0 Tags

This branch is up to date with [thefossclub/face-recognition:main](#).

**the fossclub** Merge pull request [thefossclub#1](#) from V8V88V8V88/p...

File/Folder	Action	Last Commit
faces	added new files	5 months ago
1.cpp	uploading files	last month
2.5.cpp	uploading files	last month
2.cpp	uploading files	last month
3.cpp	added new files	last month
FaceDetection.cpp	Add files via upload	5 months ago
FaceDetectionLite	added new files	last month
FaceDetectionLite.cpp	added new files	last month
FaceDetectionLite.exe	added new files	last month
FaceRecognition	added new files	last month
FaceRecognition2	added new files	last month

Go to file Add file Code

Local Codespaces

Clone

HTTPS SSH GitHub CLI

<https://github.com/gulshanpr/face-recognition>

Clone using the web URL.

Download ZIP

About

Face Recognition code which detects faces on live cameras implemented using OpenCV and Dlib in Python and C++

[www.v8v88v8v88.in](#)

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Languages

## 2. clone the repo into your local machine

```
gulshan@debian:~/All Codes/open_source$ git clone https://github.com/gulshanpr/face-recognition.git
Cloning into 'face-recognition'...
remote: Enumerating objects: 94, done.
remote: Counting objects: 100% (21/21), done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 94 (delta 13), reused 7 (delta 5), pack-reused 73
Receiving objects: 100% (94/94), 115.04 MiB | 1.22 MiB/s, done.
Resolving deltas: 100% (19/19), done.
Updating files: 100% (59/59), done.
```

### a. this will create a local copy of the repo

```
gulshan@debian:~/All Codes/open_source$ ls
face-recognition
gulshan@debian:~/All Codes/open_source$ █
```

b. get into your cloned folder and open it on your fav code editor

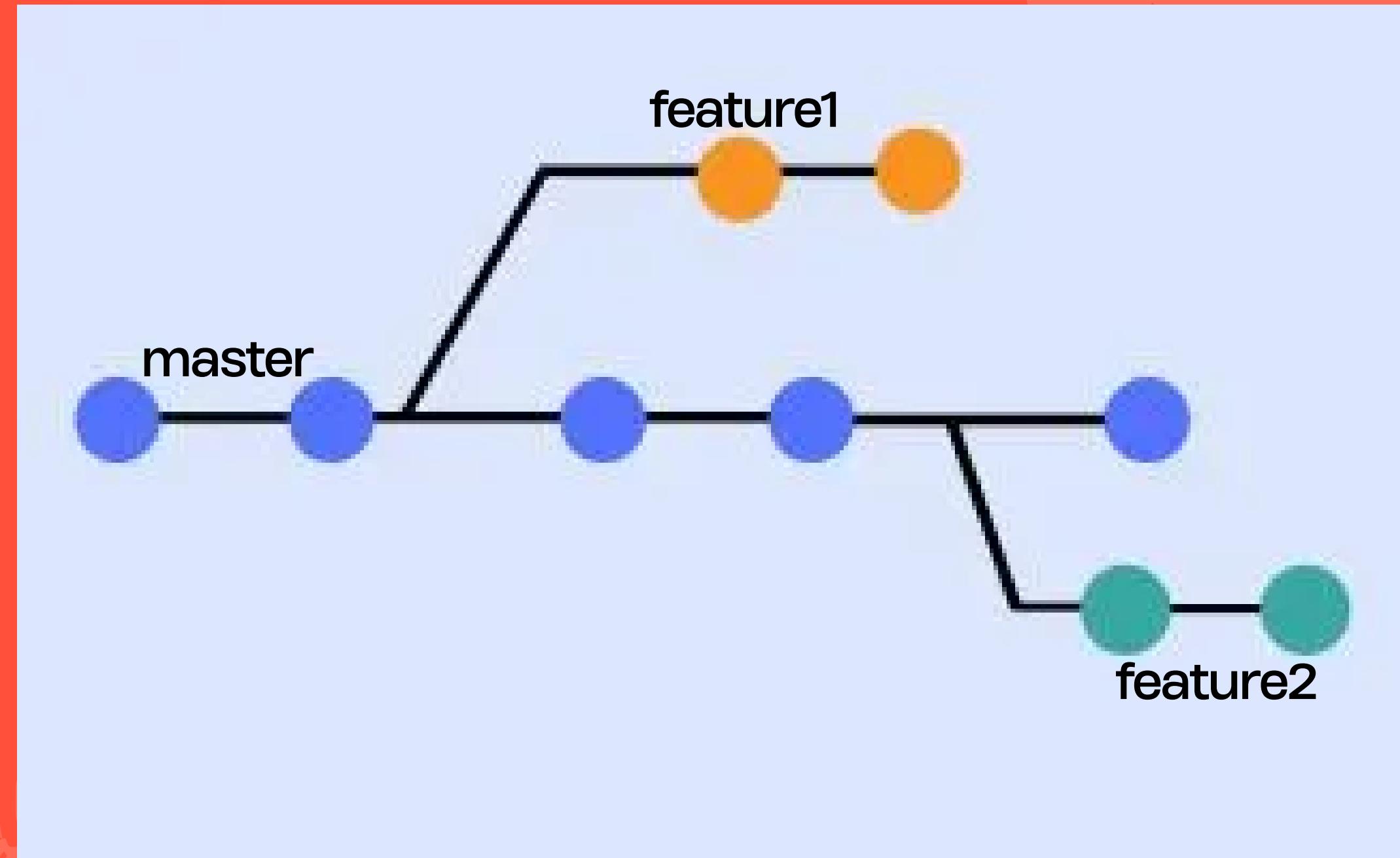
```
gulshan@debian:~/All Codes/open_source$ cd face-recognition/  
gulshan@debian:~/All Codes/open_source/face-recognition$ code .
```

3. before any changes make branch

```
gulshan@debian:~/All Codes/open_source/face-recognition$ git checkout -b how_to_contribute_to_open_source  
Switched to a new branch 'how_to_contribute_to_open_source'  
gulshan@debian:~/All Codes/open_source/face-recognition$ git branch  
  how_to  
* how_to_contribute_to_open_source  
  main  
gulshan@debian:~/All Codes/open_source/face-recognition$ █
```

4. now make any changes or bug fixes you want

# Git branches



## 5. after changes, stage the changes

```
gulshan@debian:~/All Codes/open_source/face-recognition$ git add .
gulshan@debian:~/All Codes/open_source/face-recognition$ git status
On branch how_to_contribute_to_open_source
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   FaceDetection.cpp
```

## 6. commit the changes with detailed commit message

```
gulshan@debian:~/All Codes/open_source/face-recognition$ git commit -m 'the commit message should be detailed, for collaboration with other dev'
[how_to_contribute_to_open_source 77a89a4] the commit message should be detailed, for collaboration with other dev
 1 file changed, 1 insertion(+)
```

## 7. push the changes

```
gulshan@debian:~/All Codes/open_source/face-recognition$ git push origin how_to_contribute_to_open_source
Username for 'https://github.com': gulshanpr
Password for 'https://gulshanpr@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 351 bytes | 351.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'how_to_contribute_to_open_source' on GitHub by visiting:
remote:     https://github.com/gulshanpr/face-recognition/pull/new/how_to_contribute_to_open_source
remote:
To https://github.com/gulshanpr/face-recognition.git
 * [new branch]      how_to_contribute_to_open_source -> how_to_contribute_to_open_source
```

# 8. create Pull Request

The screenshot shows a GitHub repository page for 'face-recognition'. The repository is public and forked from 'V8V88V88/face-recognition'. The 'Code' tab is selected. A green button labeled 'Compare & pull request' is highlighted with a white arrow pointing towards it. The repository has 1 branch and 0 tags. It is 2 commits ahead of the 'main' branch. The commit history shows 13 commits by 'thefosclub' from 'Merge pull request #1 from V8V88V88/patch-1'. The commits include adding new files like 'faces', '1.cpp', '2.5.cpp', etc., and uploading files like 'FaceDetection.cpp', 'FaceDetectionLite', etc. The repository has 0 stars, 2 forks, and 1 issue. It includes sections for About, Releases, Packages, and Languages.

thefosclub / face-recognition

Type ⌘ to search | > | + | ○ | 🔍 | 📁 | 🎨 | 🚫

Code Pull requests Actions Projects Security Insights

Watch 0 Fork 2 Star 1

face-recognition Public  
forked from [V8V88V88/face-recognition](#)

gulshanpr:how\_to\_contribute\_to\_open\_source had recent pushes 3 seconds ago

Compare & pull request

main 1 Branch 0 Tags

Go to file Add file Code

This branch is 2 commits ahead of [V8V88V88/face-recognition:main](#).

thefosclub Merge pull request #1 from V8V88V88/patch-1 · d0ae98b · 3 weeks ago · 13 Commits

faces added new files last month

1.cpp uploading files 5 months ago

2.5.cpp uploading files 5 months ago

2.cpp uploading files 5 months ago

3.cpp added new files last month

FaceDetection.cpp Add files via upload 5 months ago

FaceDetectionLite added new files last month

FaceDetectionLite.cpp added new files last month

FaceDetectionLite.exe added new files last month

FaceRecognition added new files last month

FaceRecognition2 added new files last month

FaceRecognition3 added new files last month

About

Face Recognition code which detects faces on live cameras implemented using OpenCV and Dlib in Python and C++

[www.v8v88v88.in](#)

Readme

Activity

1 star

0 watching

2 forks

Report repository

Releases

No releases published

Packages

No packages published

Languages

C++ 62.4% Python 37.6%

# a. add the title and description, then make PR

The screenshot shows the GitHub interface for creating a pull request. At the top, the repository 'thefossclub / face-recognition' is selected. The navigation bar includes 'Code' (which is underlined), 'Pull requests', 'Actions', 'Projects', 'Security', and 'Insights'. A search bar at the top right contains the placeholder 'Type ⌘ to search'. To the right of the search bar are icons for issues, pull requests, and other repository management.

The main area is titled 'Open a pull request' with the sub-instruction 'Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. Learn more about diff comparisons here.' Below this, a summary bar shows the comparison details: 'base repository: thefossclub/face-recognition', 'base: main', 'head repository: gulshanpr/face-recognition', 'head: compare: how\_to\_contribute\_to\_open\_s...', and a green checkmark indicating 'Able to merge. These branches can be automatically merged.'

The 'Add a title' field contains the commit message: 'the commit message should be detailed, for collaboration with other dev'. The 'Helpful resources' section links to 'GitHub Community Guidelines'.

The 'Add a description' section features a WYSIWYG editor with 'Write' and 'Preview' tabs. The editor toolbar includes bold (B), italic (I), underline (U), and various alignment and list options. The text area below says 'Add your description here...'. A note at the bottom left of the editor area states 'Markdown is supported'.

At the bottom of the pull request form, there is a note: 'Remember, contributions to this repository should follow our [GitHub Community Guidelines](#)'. Below this are three summary boxes: '-o- 1 commit', '1 file changed', and '1 contributor'. Finally, a green 'Create pull request' button is visible at the bottom right.

# we are done 🤘🤘

The screenshot shows a GitHub pull request page for the repository `thefossclub / face-recognition`. The pull request is from `gulshanpr` and has 1 commit. The commit message is:

```
the commit message should be detailed, for collaboration with other dev #2
```

The pull request is mergeable and has no conflicts with the base branch. The review status is "No reviews". There are no assignees or labels. Notifications are customized, and the user is unsubscribing.

**Pull requests** 1

the commit message should be detailed, for collaboration with other dev #2

**Conversation** 0

**Commits** 1

**Checks** 0

**Files changed** 1

**Reviewers**  
No reviews  
Still in progress? Convert to draft

**Assignees**  
No one assigned

**Labels**  
None yet

**Projects**  
None yet

**Milestone**  
No milestone

**Notifications** Customize

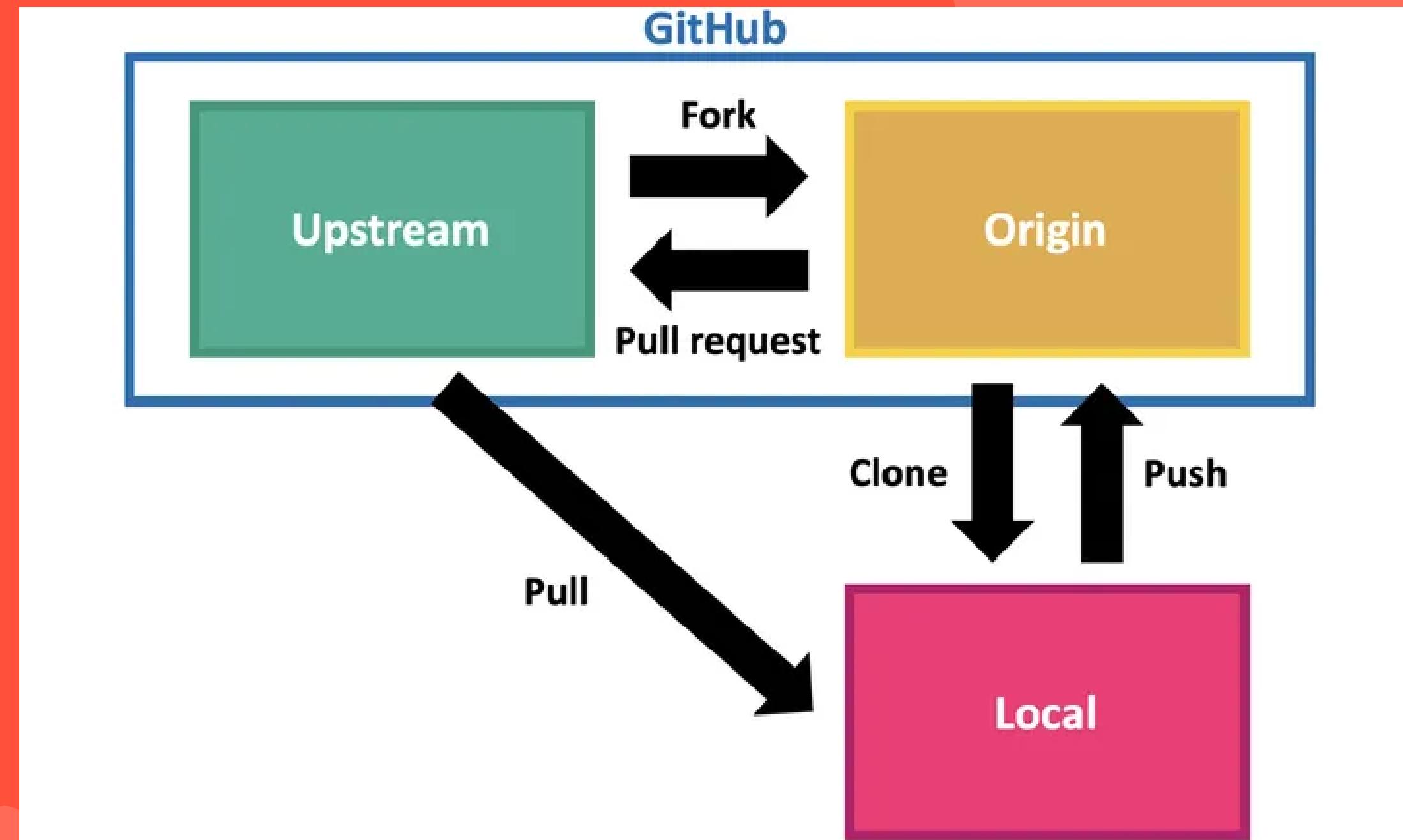
Unsubscribe

You're receiving notifications because you authored the thread.

**Comment**

# MISCELLANEOUS

```
gulshan@debian:~/All Codes/open_source/face-recognition$ git remote add up-stream https://github.com/thefossclub/face-recognition.git
gulshan@debian:~/All Codes/open_source/face-recognition$ git remote -v
origin  https://github.com/gulshanpr/face-recognition.git (fetch)
origin  https://github.com/gulshanpr/face-recognition.git (push)
up-stream      https://github.com/thefossclub/face-recognition.git (fetch)
up-stream      https://github.com/thefossclub/face-recognition.git (push)
gulshan@debian:~/All Codes/open_source/face-recognition$ █
```



“ DESIGNING  
Crafting Innovation:  
Exploring the  
Intersection of  
Design and Open  
Source”

BY HARSH SHARMA

# “content”



- I     *ABOUT US*
- II    *DESIGNS AND OPEN SOURCES*
- III   *KRITA AND BLENDER (BASICS)*
- IV   *AI AND WILL AI TAKEOVER*
- V    *CONTACTS AND GOODBYES*



# “introduction”

*I'm Harsh Sharma a second year student  
Currently pursuing BTech cse at Delhi Technical  
Campus gtr Noida  
Krita , gimp , sketchbook , blender , unreal  
engine , Adobe Photoshop, inkscape  
Are few softwares that I've worked on  
I'm the graphic head of our foss club alongside  
Hemant Singh*

---



# “Design and good design”

---

the process of creating something with intention and purpose. It could be the creation of plans, drawings, or schemes for the construction or development of objects, systems, or processes. Design can encompass a wide range of fields including graphic design, industrial design, interior design, fashion design, web design, and more. Ultimately, design involves solving problems, balancing aesthetics and functionality, and communicating ideas effectively through visual or conceptual means.



Good Design

PRINCIPLES OF DESIGNS



# “ Good Design ”

principles of designs :- COMPOSITION

BALANCE

ALIGNMENT

REPITITION

CONTRAST

NEGATIVE SPACE

HIERARCHY

SYMMETERY VS  
ASYMMETERTY

GRID

---

---

---

---

“Art is  
the  
core.”



# “ open sources ”

**GIMP (GNU Image Manipulation Program)**: This is a powerful open-source alternative to Adobe Photoshop. It's great for photo retouching, image composition, and creating artwork.

**Inkscape**: This is an open-source vector graphics editor, similar to Adobe Illustrator. It's used for creating vector-based illustrations, logos, diagrams, and other graphics.

**Blender**: While primarily known for its 3D modeling and animation capabilities, Blender also has robust features for 2D design and animation. It's used for creating visual effects, animated films, video games, and more.



# “ open sources ”

**Krita:** *Krita is a free and open-source digital painting software. It's tailored for artists who work with concept art, texture and matte painters, and illustrators.*

**Scribus:** *Scribus is an open-source desktop publishing software, comparable to Adobe InDesign. It's used for creating layouts for newspapers, magazines, brochures, and other printed materials.*

**Gravit Designer:** *This is a full-featured vector design app suitable for all manner of jobs, from screen and icon designs to presentations, illustration, animation, and more.*





# blender / blender

[Watch](#)

126

[Star](#)

392

[Fork](#)

562

[Code](#)[Issues 6.2k](#)[Pull Requests 755](#)[Projects 19](#)[Wiki](#)[Activity](#)

The official Blender project repository.

135,110 Commits

24 Branches

203 Tags

969 MiB

[main](#) ▾[Go to file](#)

HTTPS

<https://projects.blender.org/blender/blender.git>

Campbell Barton	dce8668b1f	GHOST/Wayland: use discrete zoom steps with multi-touch disabled ...	4 minutes ago
.gitea		Revert "Experiment: Add release notes PR link field to pull request..."	2 months ago
.github		Docs: Replace most wiki links with links to new developer docs	3 months ago
build_files		CMake: Change build flags to use SSE42 if available	2 days ago
doc		Python: replace '%' with str.format for examples & templates	2 days ago
extern		Libraries: integrate xxHash library for fast hashing	2 weeks ago
intern		GHOST/Wayland: use discrete zoom steps with multi-touch disab...	4 minutes ago
lib		Merge branch 'blender-v4.1-release'	last month
locale		I18N: Updated UI translations from git/weblate (ab9a702e968).	last week
release		Linux desktop spec: remove "game engine" keyword	3 days ago
scripts		Extensions: User Interface: Sort advanced repository options	2 days ago
source		Cleanup: various non-functional C++ changes	2 hours ago
tests		Cleanup: remove redundant string formatting	2 days ago
tools		Cleanup: remove redundant string formatting	2 days ago
.clang-format		Clang-Format: Ensure single new line at the end of files	2 months ago
.clang-tidy		Clang-tidy: Ignore variable name length and .c/.cc include warnings	2 years ago
.editorconfig		editorconfig: add HTML entry	4 months ago
.git-blame-ignore-revs		Cleanup: add commit to .git-blame-ignore-revs	last year
.gitignore		Switch SVN to Git submodules using Git-LFS	2 months ago
.gitmodules		Windows: Add ARM64 lib submodule	last month

 krita Public Sponsor Watch 177 Fork 539 Starred 6.6k

master

286 Branches 144 Tags

Go to file

t

Add file

&lt;&gt; Code

 l10n daemon script GIT\_SILENT Sync po/docbooks with svn

06183b5 · 2 hours ago 62,493 Commits

 .github

Ensure GitHub Sponsorship information is carried over fr... 5 months ago

 .gitlab/merge\_request\_templates

Update file merge\_request\_template.md last year

 3rdparty

Merge branch 'work/kazakov-android-sdp' 2 weeks ago

 3rdparty\_plugins

3rdparty: No longer rename patch.exe to myptch.exe 9 months ago

 3rdparty\_vendor

Embed raqm source into Krita tree to make distributions... 6 months ago

 LICENSES

SPDX license migration 4 years ago

 benchmarks

Spelling 10 months ago

 build-tools

Replace Krita Plus update URL last week

 cmake

Bump SIP ABI version to 12.8 4 months ago

 dev-tools/python

Python Plugin Importer can now import directly from Web 4 years ago

 krita

Add docker box toolbar widget last week

 libs

Fix activation of the node on opening .kra document 4 days ago

 packaging

Replace Krita Plus update URL last week

 pch

Add an options to build Krita with precompiled headers ... 2 years ago

 pics

Text: Add missing text-direction: ltr icon. 5 months ago

 plugins

Fix activation of the node on opening .kra document 4 days ago

 po

GIT\_SILENT Sync po/docbooks with svn 2 hours ago

 sdk

Fix artifacts when changing transform mask continuously 2 months ago

 winquirks

Remove dead code 2 years ago

## About

Krita is a free and open source cross-platform application that offers an end-to-end solution for creating digital art files from scratch built on the KDE and Qt frameworks.

 [invent.kde.org/graphics/krita](http://invent.kde.org/graphics/krita) Readme GPL-3.0, Unknown licenses found Code of conduct Activity Custom properties 6.6k stars 177 watching 539 forks

Report repository

## Releases

 144 tags

## Sponsor this project

 KDE KDE GitHub Mirror liberapay.com/Krita <https://krita.org/en/support-us/donations> <https://kde.org/donations>

Learn more about GitHub Sponsors

## Packages

Search or go to...

Project

- GIMP
- Pinned
- Issues 3.3k
- Merge requests 150
- Manage >
- Plan >
- Code >
- Build >
- Deploy >
- Operate >
- Monitor >
- Analyze >

# GIMP

The GNU Image Manipulation Program

51,981 Commits 199 Branches 271 Tags 13 Releases 1 Environment

openssf best practices in progress 69% Open Hub 883K Lines pipeline failed ⚡ Donate

Update Vietnamese translation  
Trần Ngọc Quân authored 1 hour ago ✖ 6ee9158c 📁

master / gimp / +

History Find file Edit Code

[README](#) [GNU General Public License v3.0 or later](#) [CHANGELOG](#)

Name	Last commit	Last update
.gitlab	.gitlab: Improve Feature request template	4 weeks ago
.vscode	Add .vscode/settings.json compliant with Coding Style	2 months ago
app-tools	Remove autotools	10 months ago
app	actions: Hide Preview Size dockable option if not needed	1 day ago
build	gitlab-ci, build/windows: Organize 'git' variables	5 hours ago
data	data, plug-ins: logo images moved to gimp-data reposit...	2 weeks ago
desktop	build: gimp.ico now generated from the new icon.	2 weeks ago
devel-docs	devel-docs: Replace Gimp.RGB with Gegl.Color	1 month ago
docs	build, docs, etc: drop hardcoding of GIMP version	3 months ago
etc	build, docs, etc: drop hardcoding of GIMP version	3 months ago
extensions	build/windows, data, extensions, plug-ins: Fix Build omi...	3 months ago
libgimp	meson: share a same environment for all usages of self...	5 days ago
libgimpbase	libgimpbase: support multiarch folders for binary relocat...	1 week ago
libgimpcolor	Issue #11021: cairo-ARGB32 uses "associated alpha", s...	1 week ago

Next

Inkscape / Inkscape

Search or go to...

Project

inkscape

Pinned

Manage

Plan

Code

Build

Deploy

Monitor

Analyze

Help

inkscape

master / inkscape / +

History Find file Edit Code

UI::Shortcuts: Improve performance Max Gaukler authored 1 week ago 8c376be2

Name	Last commit	Last update
CMakeScripts	Add missing libs to install target	1 week ago
LICENSES	Use a class derived from Gtk::Dialog fo...	3 years ago
buildtools	Fix Windows build for Gtk4	1 week ago
doc	Livarot documentation	1 year ago
man	Sync the man pages for 1.3.1 updates	7 months ago
packaging	Update go-appimage version to 823	2 weeks ago
po	Small UI issues	4 days ago
share	Small UI issues	4 days ago
snap	Remove libsoup unused dependency	2 weeks ago
src	UI::Shortcuts: Improve performance	3 days ago
testfiles	Fix setInt locale in Preferences	2 weeks ago
.clang-tidy	Tell clang-tidy not to use nice reverse l...	6 months ago
.gitignore	Add 'object-trace' action	3 weeks ago
.gitlab-ci.yml	Enable Windows CI again	1 week ago
.gitmessage	Add .gitmessage git message template	2 years ago
.gitmodules	libcroco as submodule	1 year ago
AUTHORS	* Remove unused members and their fo...	7 months ago
CMakeLists.txt	Bump Inkscape version to 1.5-dev	2 weeks ago

Project information

Inkscape vector image editor

28,137 Commits

197 Branches

45 Tags

13 Releases

README

LICENSE

CHANGELOG

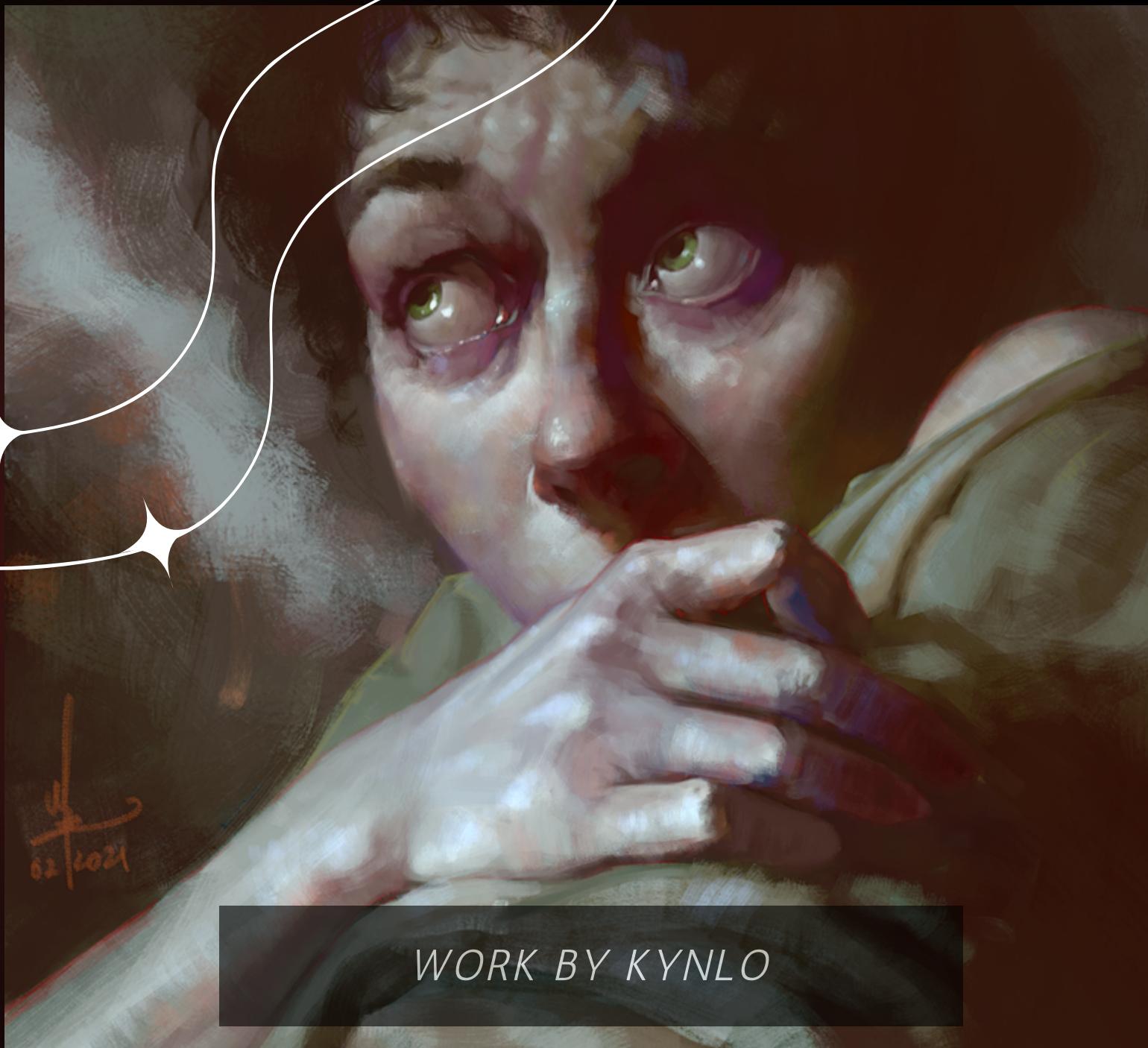
CONTRIBUTING

GitLab Pages

Created on June 09, 2017

# “krita”

Krita is a fantastic digital painting software that offers a wide range of tools for artists and illustrators. It's free and open-source, making it a popular choice for creative projects. With features like customizable brushes, layer support, and a user-friendly interface, Krita provides a great platform for digital art creation. Whether you're a beginner or an experienced artist, Krita is worth exploring for your artistic endeavors!



 krita Public Sponsor Watch 177 Fork 539 Starred 6.6k

master

286 Branches 144 Tags

Go to file

t

Add file

&lt;&gt; Code

 l10n daemon script GIT\_SILENT Sync po/docbooks with svn

06183b5 · 2 hours ago 62,493 Commits

 .github

Ensure GitHub Sponsorship information is carried over fr...

5 months ago

 .gitlab/merge\_request\_templates

Update file merge\_request\_template.md

last year

 3rdparty

Merge branch 'work/kazakov-android-sdp'

2 weeks ago

 3rdparty\_plugins

3rdparty: No longer rename patch.exe to myptch.exe

9 months ago

 3rdparty\_vendor

Embed raqm source into Krita tree to make distributions...

6 months ago

 LICENSES

SPDX license migration

4 years ago

 benchmarks

Spelling

10 months ago

 build-tools

Replace Krita Plus update URL

last week

 cmake

Bump SIP ABI version to 12.8

4 months ago

 dev-tools/python

Python Plugin Importer can now import directly from Web

4 years ago

 krita

Add docker box toolbar widget

last week

 libs

Fix activation of the node on opening .kra document

4 days ago

 packaging

Replace Krita Plus update URL

last week

 pch

Add an options to build Krita with precompiled headers ...

2 years ago

 pics

Text: Add missing text-direction: ltr icon.

5 months ago

 plugins

Fix activation of the node on opening .kra document

4 days ago

 po

GIT\_SILENT Sync po/docbooks with svn

2 hours ago

 sdk

Fix artifacts when changing transform mask continuously

2 months ago

 winquirks

Remove dead code

2 years ago

## About

Krita is a free and open source cross-platform application that offers an end-to-end solution for creating digital art files from scratch built on the KDE and Qt frameworks.

 [invent.kde.org/graphics/krita](http://invent.kde.org/graphics/krita) Readme GPL-3.0, Unknown licenses found [Code of conduct](#) Activity [Custom properties](#) 6.6k stars 177 watching 539 forks Report repository

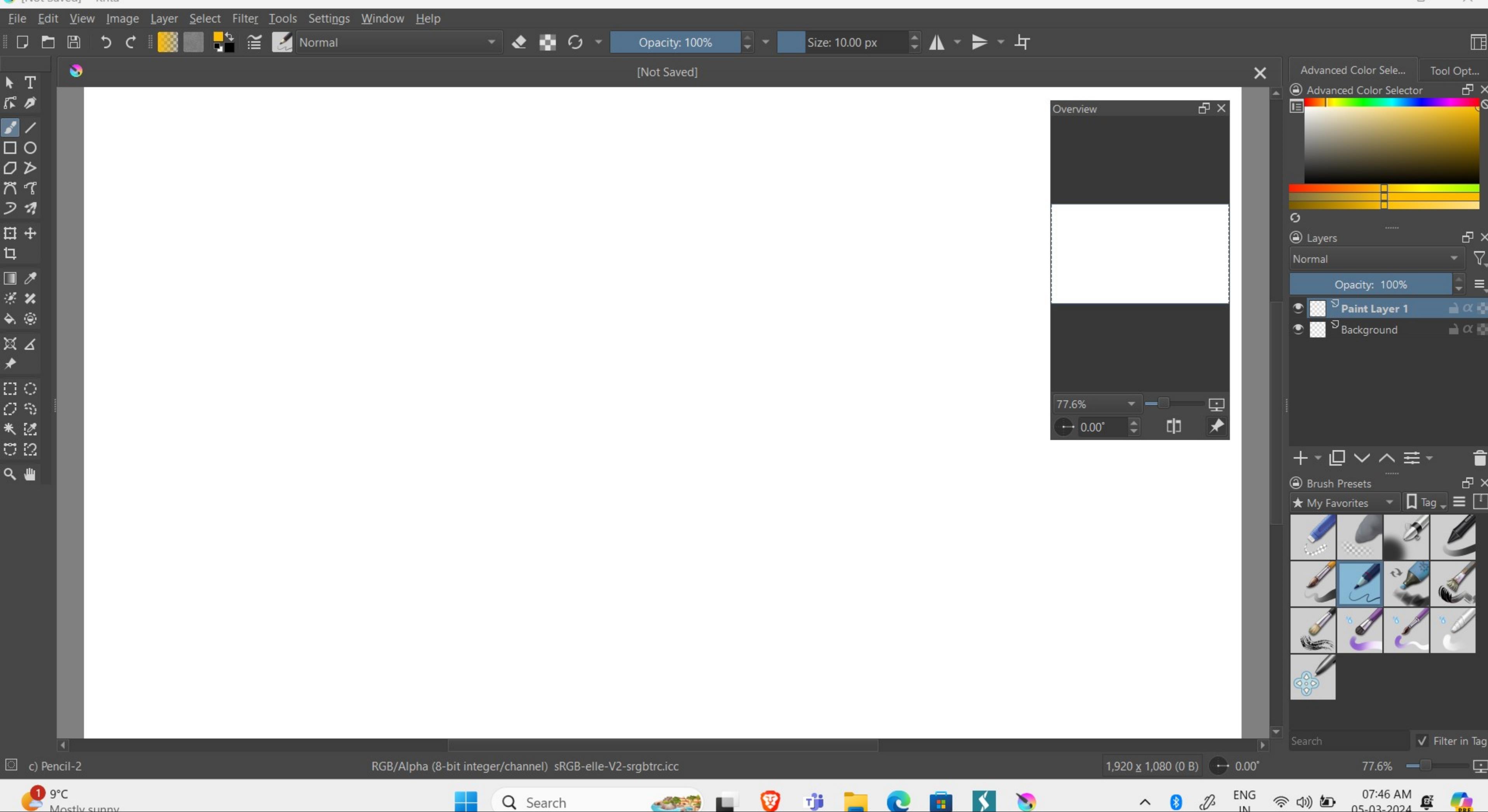
## Releases

 144 tags

## Sponsor this project

 KDE KDE GitHub Mirror liberapay.com/Krita <https://krita.org/en/support-us/donations> <https://kde.org/donations> [Learn more about GitHub Sponsors](#)

## Packages

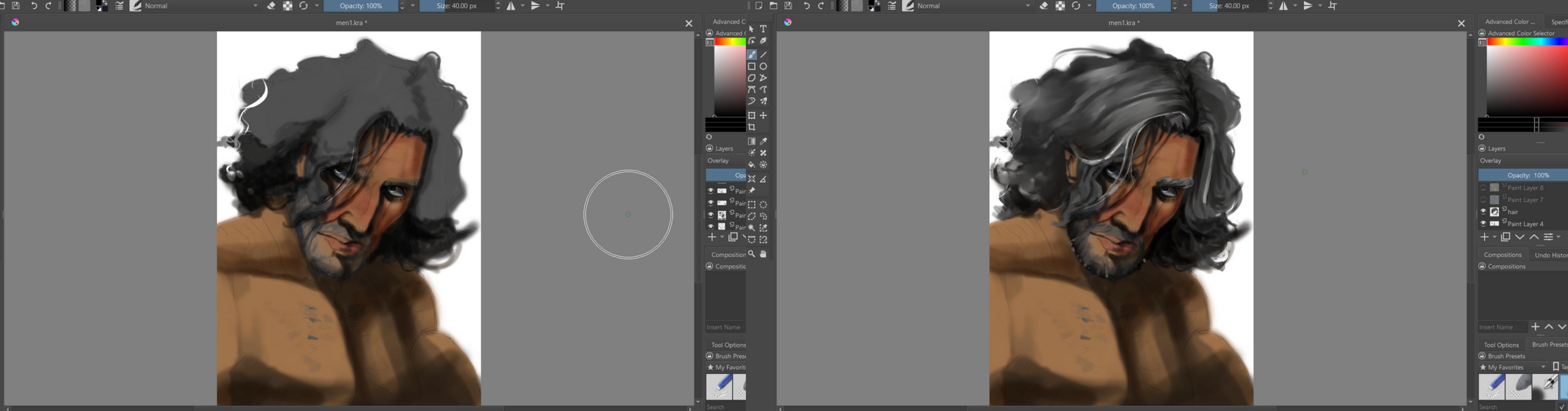
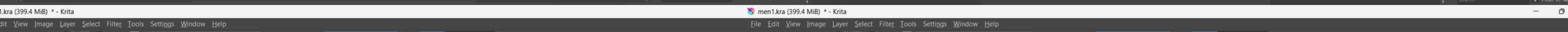
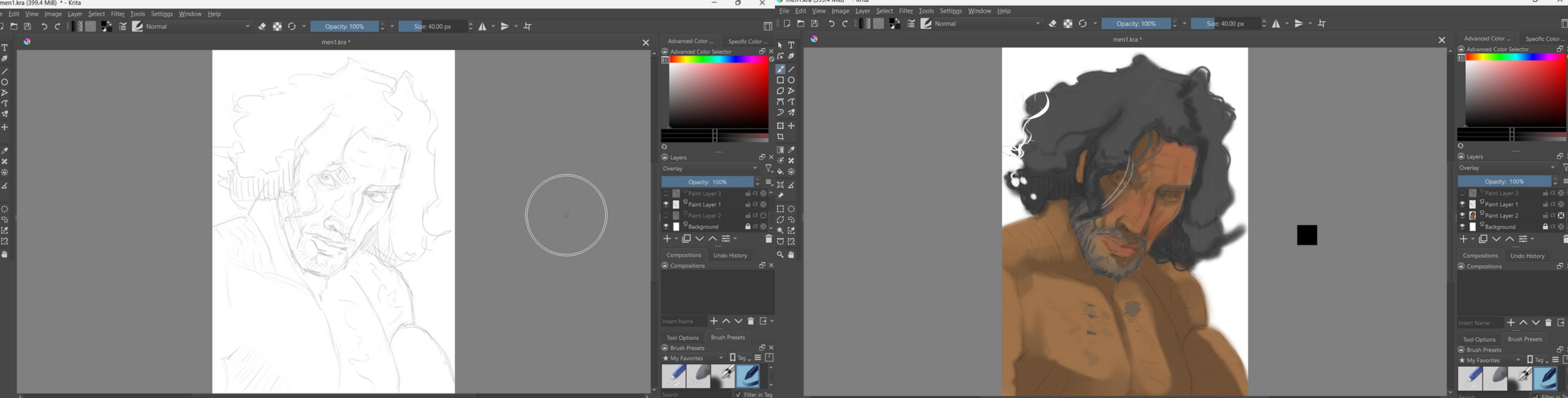


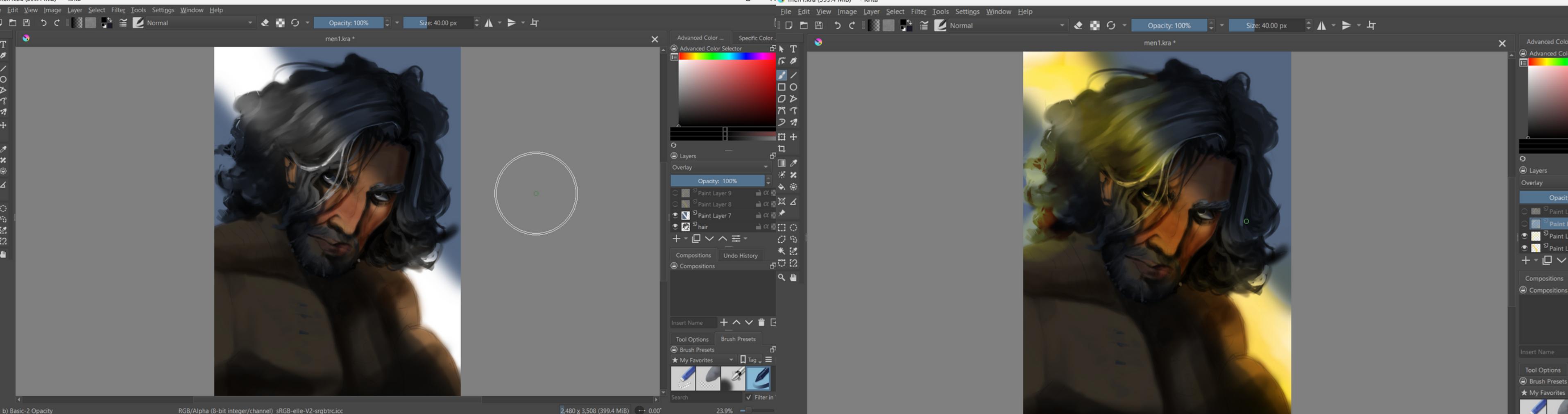






My process





b) Basic-2 Opacity

men1.kra (399.4 MiB) \* - Krita

RGB/Alpha (8-bit integer/channel) sRGB-elle-V2-srgbtrc.icc

2,480 x 3,508 (399.4 MiB) 0.00" 23.9%

File Edit View Image Layer Select Filter Tools Settings Window Help

Opacity: 100% Size: 40.00 px

men1.kra \*

Advanced Color ... Specific Color ... Advanced Color Selector

Layers Overlay Opacity: 100%

Paint Layer 9 Paint Layer 8 Paint Layer 7 hair

+ □ □ □ □ □ □ □

Compositions Undo History Compositions

Insert Name + ^ v -

Tool Options Brush Presets

Brush Presets My Favorites Tag

Search Filter in Tag

File Edit View Image Layer Select Filter Tools Settings Window Help

Opacity: 100% Size: 40.00 px

men1.kra \*

Advanced Color ... Specific Color ... Advanced Color Selector

Layers Overlay Opacity: 100%

Paint Layer 11 Paint Layer 10 Paint Layer 9 Paint Layer 8

+ □ □ □ □ □ □ □

Compositions Undo History Compositions

Insert Name + ^ v -

Tool Options Brush Presets

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men1.kra \*

Advanced Color ... Specific Color ... Advanced Color Selector

Layers Overlay Opacity: 100%

Paint Layer 11 Paint Layer 10 Paint Layer 9 Paint Layer 8

+ □ □ □ □ □ □ □

Compositions Undo History Compositions

Insert Name + ^ v -

Tool Options Brush Presets

Brush Presets My Favorites Tag

Search Filter in Tag

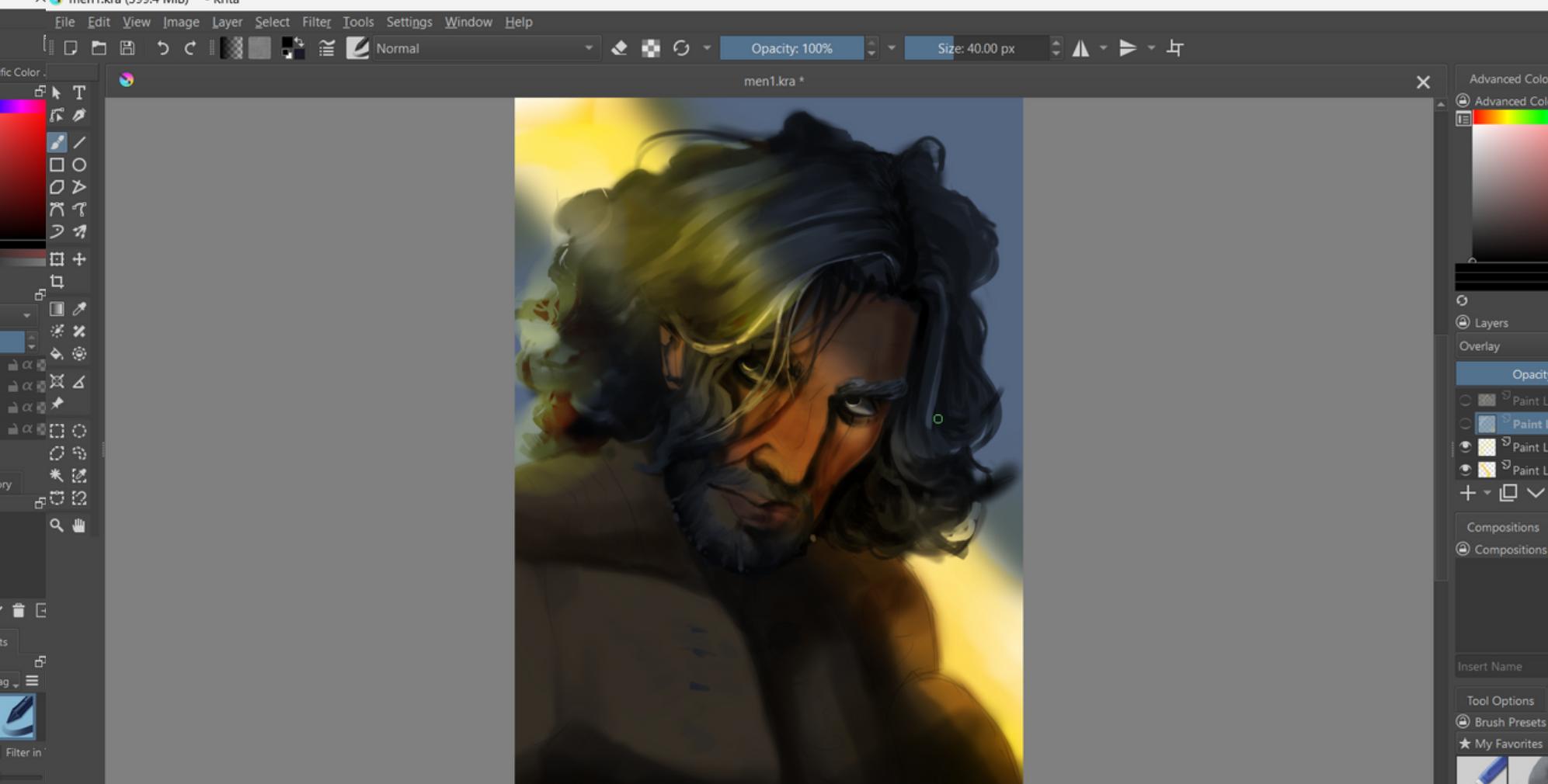
File Edit View Image Layer Select Filter Tools Settings Window Help

Opacity: 100% Size: 40.00 px

men1.kra \*

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2,480 x 3,508 (399.4 MiB) 0.00" 23.9%



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Paint Layer 11 Paint Layer 10 Paint Layer 9 Paint Layer 8

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Compositions Undo History Compositions

Insert Name + ^ v -

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Brush Presets My Favorites Tag

Search Filter in Tag

File Edit View Image Layer Select Filter Tools Settings Window Help

Opacity: 100% Size: 40.00 px

men1.kra \*

RGB/Alpha (8-bit integer/channel) sRGB-elle-V2-srgbtrc.icc

2,480 x 3,508 (399.4 MiB) 0.00" 23.9%



Created by Nuria Rincón  
Sánchez

# “Blender”

Blender 3D is a powerful software used for creating 3D models, animations, simulations, and more. It's free and open-source, making it accessible to a wide range of users, from beginners to professionals. With its extensive features and active community support, Blender is a popular choice for 3D artists and animators. If you're looking to dive into the world of 3D design, Blender is a great tool to explore!



by Harsh Sharma



# blender / blender

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126

[Star](#)

392

[Fork](#)

562

[Code](#)[Issues 6.2k](#)[Pull Requests 755](#)[Projects 19](#)[Wiki](#)[Activity](#)

The official Blender project repository.

135,110 Commits

24 Branches

203 Tags

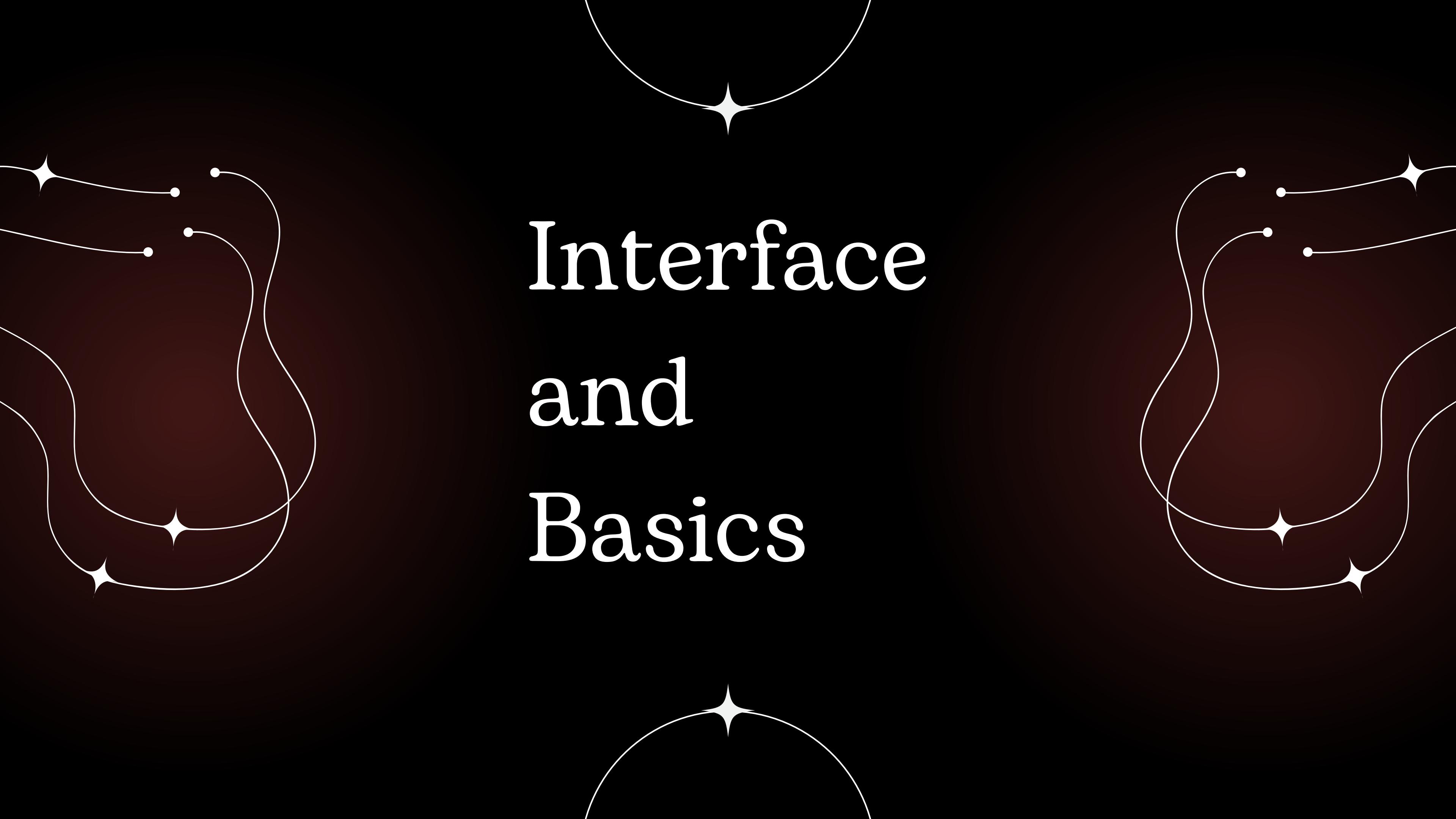
969 MiB

[main](#) ▾[Go to file](#)

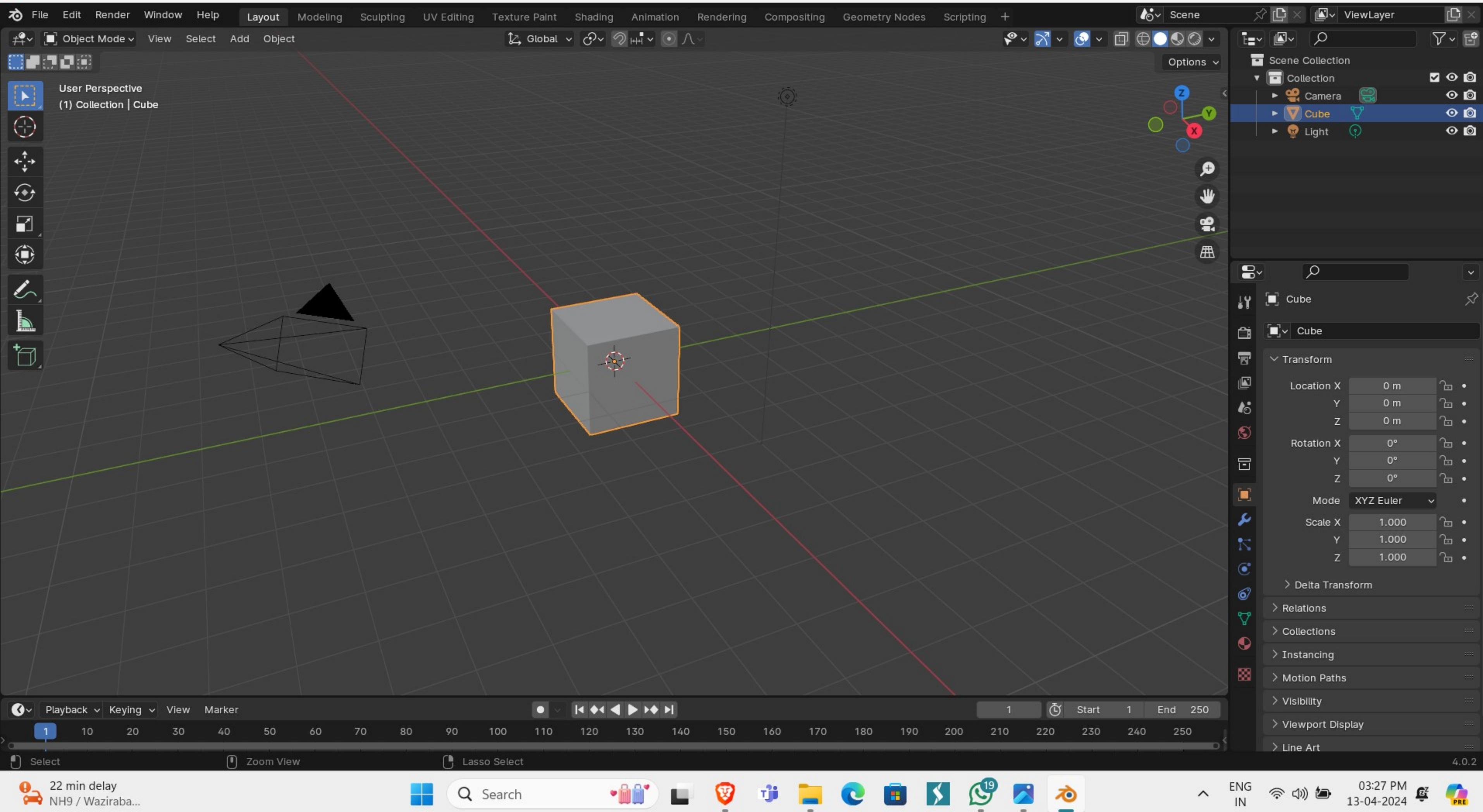
HTTPS

<https://projects.blender.org/blender/blender.git>

Campbell Barton	dce8668b1f	GHOST/Wayland: use discrete zoom steps with multi-touch disabled ...	4 minutes ago
.gitea		Revert "Experiment: Add release notes PR link field to pull request..."	2 months ago
.github		Docs: Replace most wiki links with links to new developer docs	3 months ago
build_files		CMake: Change build flags to use SSE42 if available	2 days ago
doc		Python: replace '%' with str.format for examples & templates	2 days ago
extern		Libraries: integrate xxHash library for fast hashing	2 weeks ago
intern		GHOST/Wayland: use discrete zoom steps with multi-touch disab...	4 minutes ago
lib		Merge branch 'blender-v4.1-release'	last month
locale		I18N: Updated UI translations from git/weblate (ab9a702e968).	last week
release		Linux desktop spec: remove "game engine" keyword	3 days ago
scripts		Extensions: User Interface: Sort advanced repository options	2 days ago
source		Cleanup: various non-functional C++ changes	2 hours ago
tests		Cleanup: remove redundant string formatting	2 days ago
tools		Cleanup: remove redundant string formatting	2 days ago
.clang-format		Clang-Format: Ensure single new line at the end of files	2 months ago
.clang-tidy		Clang-tidy: Ignore variable name length and .c/.cc include warnings	2 years ago
.editorconfig		editorconfig: add HTML entry	4 months ago
.git-blame-ignore-revs		Cleanup: add commit to .git-blame-ignore-revs	last year
.gitignore		Switch SVN to Git submodules using Git-LFS	2 months ago
.gitmodules		Windows: Add ARM64 lib submodule	last month

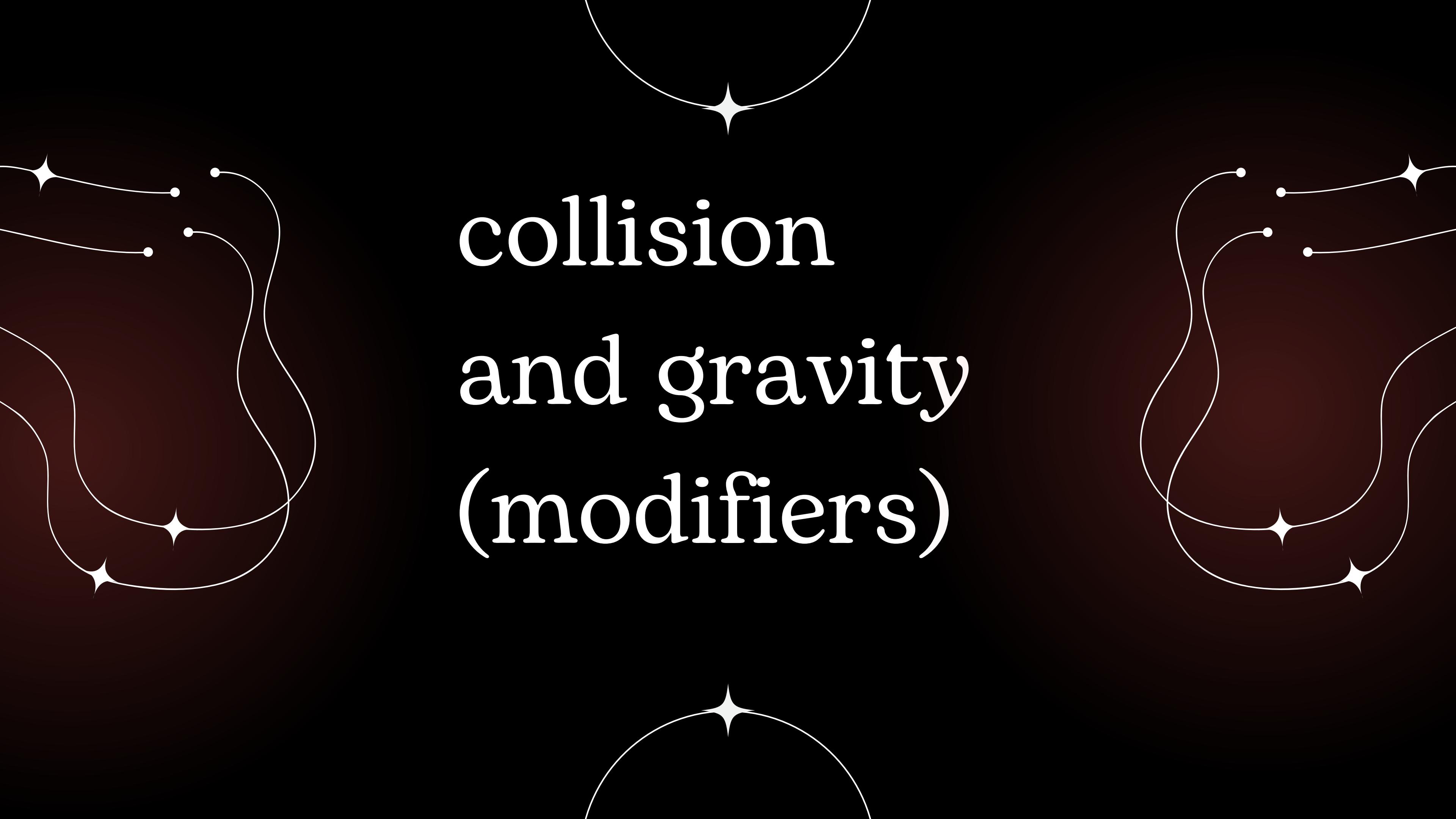


# Interface and Basics

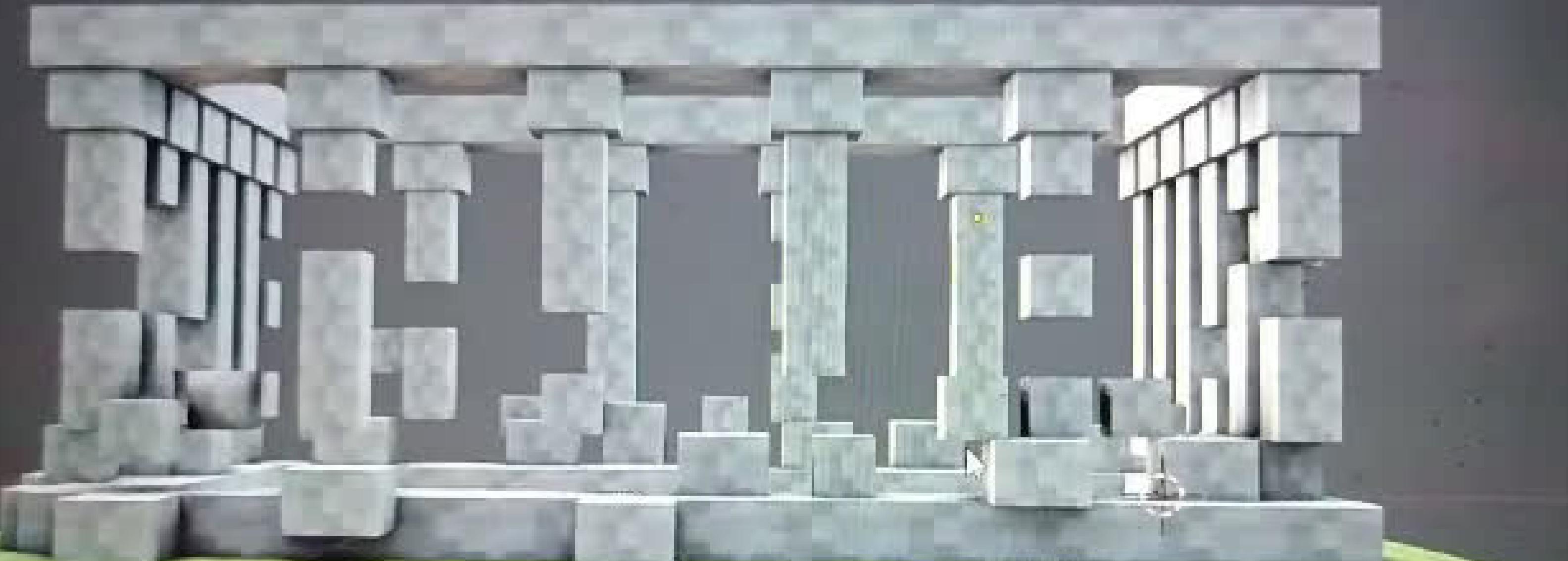








collision  
and gravity  
(modifiers)



# “AI”

**STABLE DIFFUSION:** *The AI image generator with the most flexibility is Stable Diffusion. It's totally open source, and you can even train your own models based on your own dataset to get it to generate precisely the kind of picture you want.*

**OPEN JOURNEY:** *OpenJourney is a text-to-image AI art generator. In essence, this means that the software program will turn text into portions of digital art. Naturally, the result may be closer to the user's imagination if the entry description is longer and more distinctive.*

**Invoke AI:** *InvokeAI is a free, open-source text-to-image generator that works on the stable diffusion model, similar to AUTOMATIC1111's WebUI. It permits users to access the software through an internet browser and boasts a user-friendly interface.*

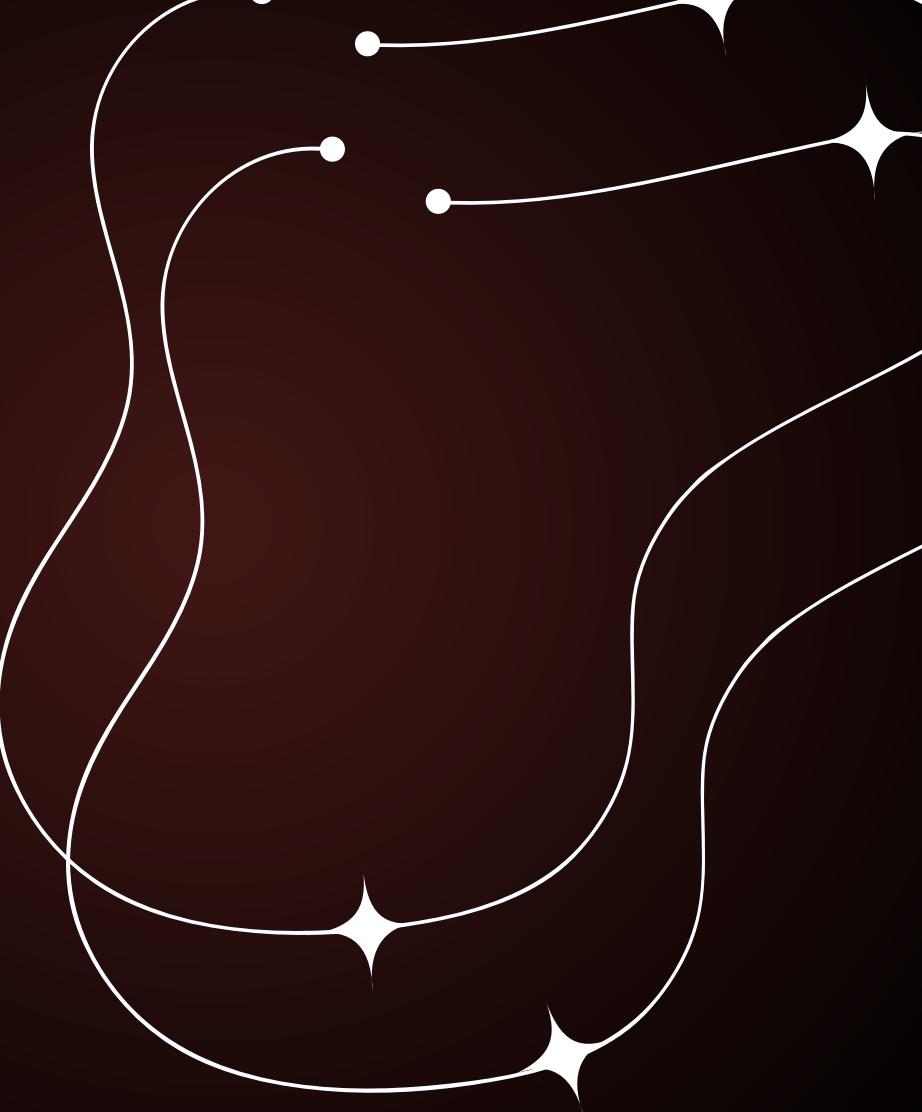


# “AI”

**STABLE STUDIO:** *Stability AI, the AI startup behind the text-to-image model Stable Diffusion released [StableStudio](#), an open-source model of DreamStudio, Stability AI's commercial AI-powered design suite.*

**Deep AI:** *DeepAI had a bigger plan concerning AI's status in the arts since its release in 2016. It targets democratizing AI in generating graphic content.*

**DEEPLOYD IF:** *Backed by Stability AI, the DeepFloyd research team has advanced an open-source model that combines practical visuals with language comprehension. [DeepFloyd IF](#) boasts a modular layout, along with a set textual content encoder and three interconnected pixel diffusion modules.*



**MAIN QUESTION CAN AI take  
over ?**

**NO**

“CAN  
AI  
TAKE  
OVER”

NO

Pros:

- Great for planning and getting ideas across quickly
- Perfect for visualising unusual concepts (things you cannot find on stock photo sites)
- It is possible to use the artwork commercially (this can also be seen as a con; plagiarism)

Cons:

- Ethical issues regarding copying other artists' work or style
- Free version is limited and can only be used for non-commercial purposes
- In some cases, it can become addictive, and you can end up going into a spiral of continuously tweaking your prompts (prompt addiction?)
- Sophisticated prompts are more similar to coding - it takes time to learn all the short codes for parameters
- Due to the ease of using Midjourney, there are already an overwhelming amount of AI artwork created by non-creatives saturating otherwise useful platforms such as Adobe Stock

“CAN  
AI  
TAKE  
OVER.”

NO

*IN A NUTSHELL, WE BELIEVE IT WON’T. ALTHOUGH MIDJOURNEY CAN MIMIC OTHER ARTISTS’ STYLE, IT STILL RELIES ON REFERENCES AND AESTHETIC STANDARDS CREATED BY HUMANS. MIDJOURNEY WILL ACT AS A TOOL FOR INSPIRATION OR AS AN ASSISTANT TO HELP YOU START A PROJECT. THERE IS A DANGER THAT SOME CLIENTS MAY OPT TO PAY LESS FOR ARTWORK CREATED BY AI. HOWEVER, BIG BRANDS WILL STILL LOOK FOR ORIGINAL ARTWORK CREATED BY TALENTED ARTISTS.*



*BORCELLE*

“thank  
you”

## OPEN-SOURCE INTELLIGENCE

# OSINT

OSINT, or Open Source Intelligence, is the collection and analysis of publicly available information, primarily from online sources, for various purposes such as threat assessment, investigative journalism, market research and obviously stalking.



# EPIEOS

EPIEOS is the ultimate OSINT tool, specializing in email and phone reverse lookup. Harnessing the power of publicly available data, it offers unparalleled insights for investigations and identity verification. With user-friendly features, it empowers users to uncover comprehensive information about individuals effortlessly. Whether for professional or personal use, EPIEOS stands as a trusted resource for unlocking valuable intelligence from online sources.



**The ultimate OSINT tool for email and phone reverse lookup**

Email Phone NEW

Use credit

test@example.com

Search

[Search options](#)

Why you should use Epieos



# WhatsMy NameWeb

Whats My Name Web simplifies online identity tracking. Users input a username to discover all platforms associated with it. By leveraging this service, individuals can gain insights into an online persona's activity across various platforms. Whether for personal or professional reasons, it offers a convenient means to monitor online presence efficiently. With its user-friendly interface, Whats My Name Web provides a valuable tool for understanding and tracking digital footprints.

## WhatsMyName Web

Enter one or more username(s) in the search box, select any category filters & click the search icon or press Enter.

Put separate usernames on each line for multiple searches...

(e.g. NSFW)

Show 50 rows▼ Copy CSV PDF

SITE

USERNAME

with the **first** username in the list used

**Google Search:** these results are good

# Wayback Machine

The Wayback Machine is an invaluable digital archive, allowing users to explore snapshots of the internet's history. Developed by the Internet Archive, it offers access to billions of web pages across different time periods. With its vast database, users can revisit old websites, view changes over time, and track the evolution of online content. The Wayback Machine serves as a vital resource for research, preservation, and understanding the ever-changing landscape of the internet.

Search the history of over 866 billion **web pages** on the Internet.

**WayBack Machine**

enter URL or keywords

**Internet Archive** is a non-profit library of millions of free books, movies, software, music, websites, and more.

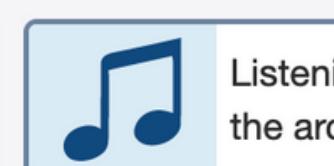
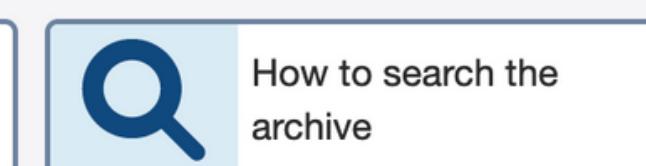
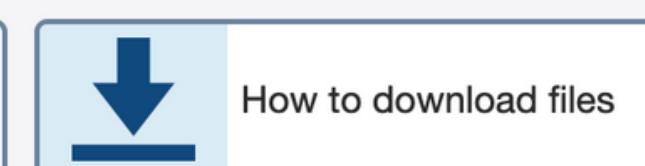
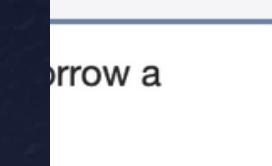


Search

GO

[Advanced Search](#)

New to the Archive?



Top Collections

# EXIF DATA VIEWER

EXIF data viewer is a tool that allows users to access and analyze the metadata embedded within digital photos. This metadata includes information such as the camera settings, date and time of capture, and location coordinates. By utilizing an EXIF data viewer, users can gain insights into the circumstances surrounding the creation of an image, aiding in verification, analysis, and organization of digital photo collections.

## Online EXIF data viewer

Uncover hidden metadata from your photos. Find when and where the picture was taken. [Remove EXIF data](#) from the image to protect your personal info.



4.1

Based on 58575 votes

To leave a vote, upload an image

## How to view EXIF metadata

1

2



Travel International with  
**TATA AIG**  
Travel Insurance



# Have I Been PWNED

"Have I Been Pwned" is a renowned website offering a vital service to internet users concerned about their online security. Founded by security expert Troy Hunt, it allows individuals to check if their email addresses or usernames have been compromised in data breaches. By providing this service, the website empowers users to take proactive measures to secure their accounts and personal information, fostering awareness and promoting better cybersecurity practices across the web.

The screenshot shows the main interface of the "Have I Been Pwned" website. At the top, there's a navigation bar with links to Home, Notify me, Domain search, Who's been pwned, Passwords, API, and About. Below the navigation is a large, bold title "';--have i been pwned?". Underneath the title is a call-to-action button labeled "Check if your email address is in a data breach". To the left of the button is a text input field with placeholder text "Email address". Below the input field is a note: "Using Have I Been Pwned is subject to the terms of use". To the right of the input field is a "Generate secure, unique passwords for every account" button with a "Learn more at 1Password" link. Below the password button is a "Why 1Password?" link. At the bottom of the page, there are four large statistics: "67 websites", "13,070,531,848 pwned accounts", "115,769 pastes", and "228,888 paste accounts". There are also links to "Largest breaches" and "Recently added breaches".



in/ishqdehlvi



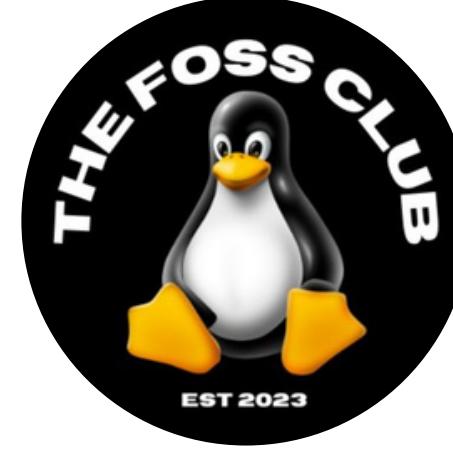
c0ndOr1n3e94



ishqdehlvi



inzi.dev



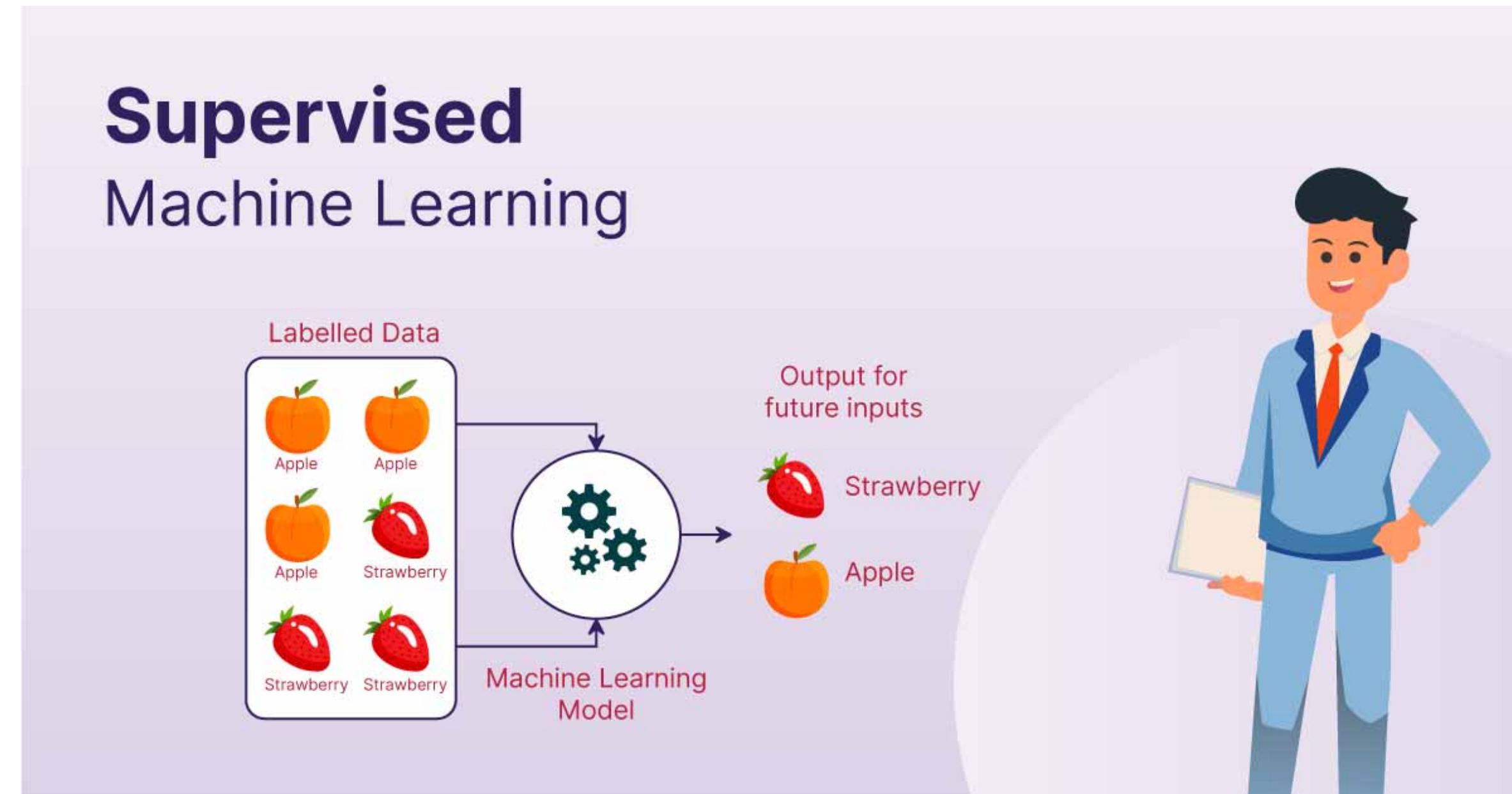
# Interactive Open Source Artificial Intelligence Experiments



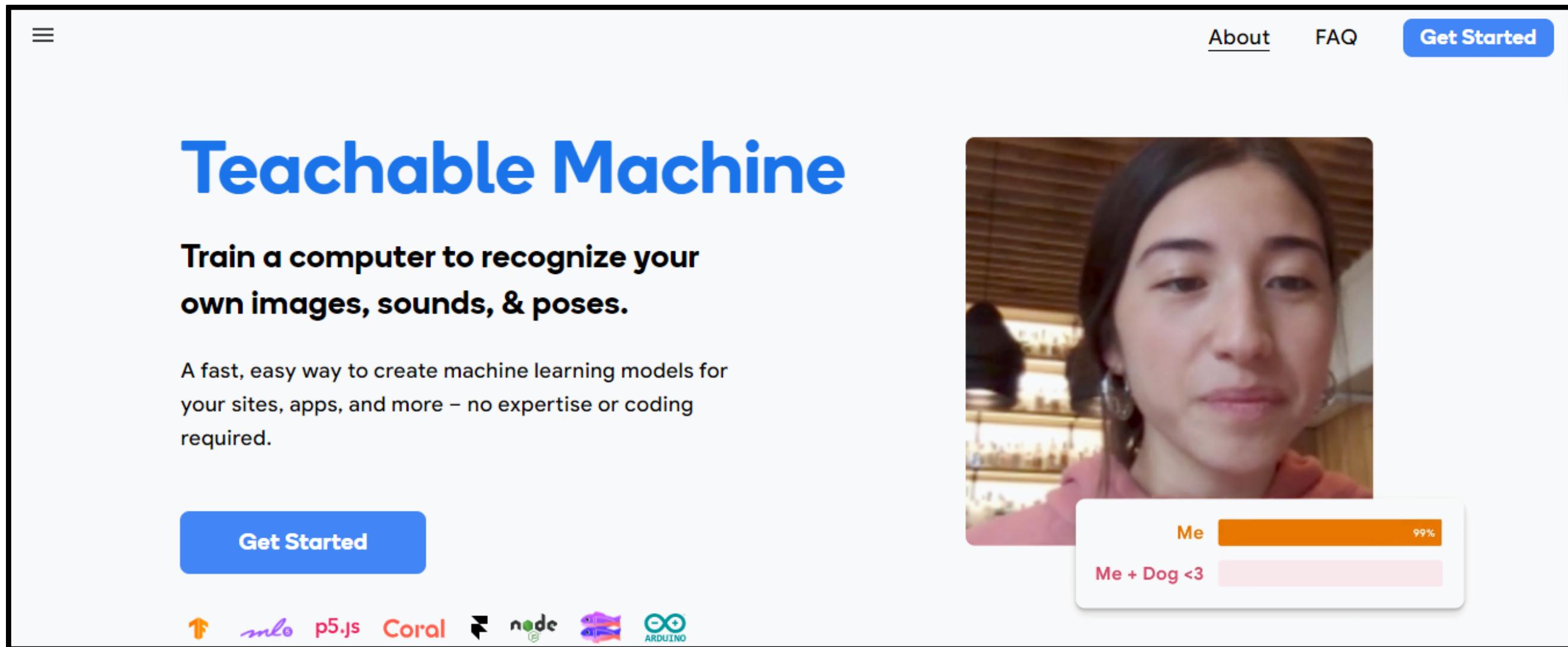
By - Shivam Gupta  
AI & Python Pioneer

# Experiment 1

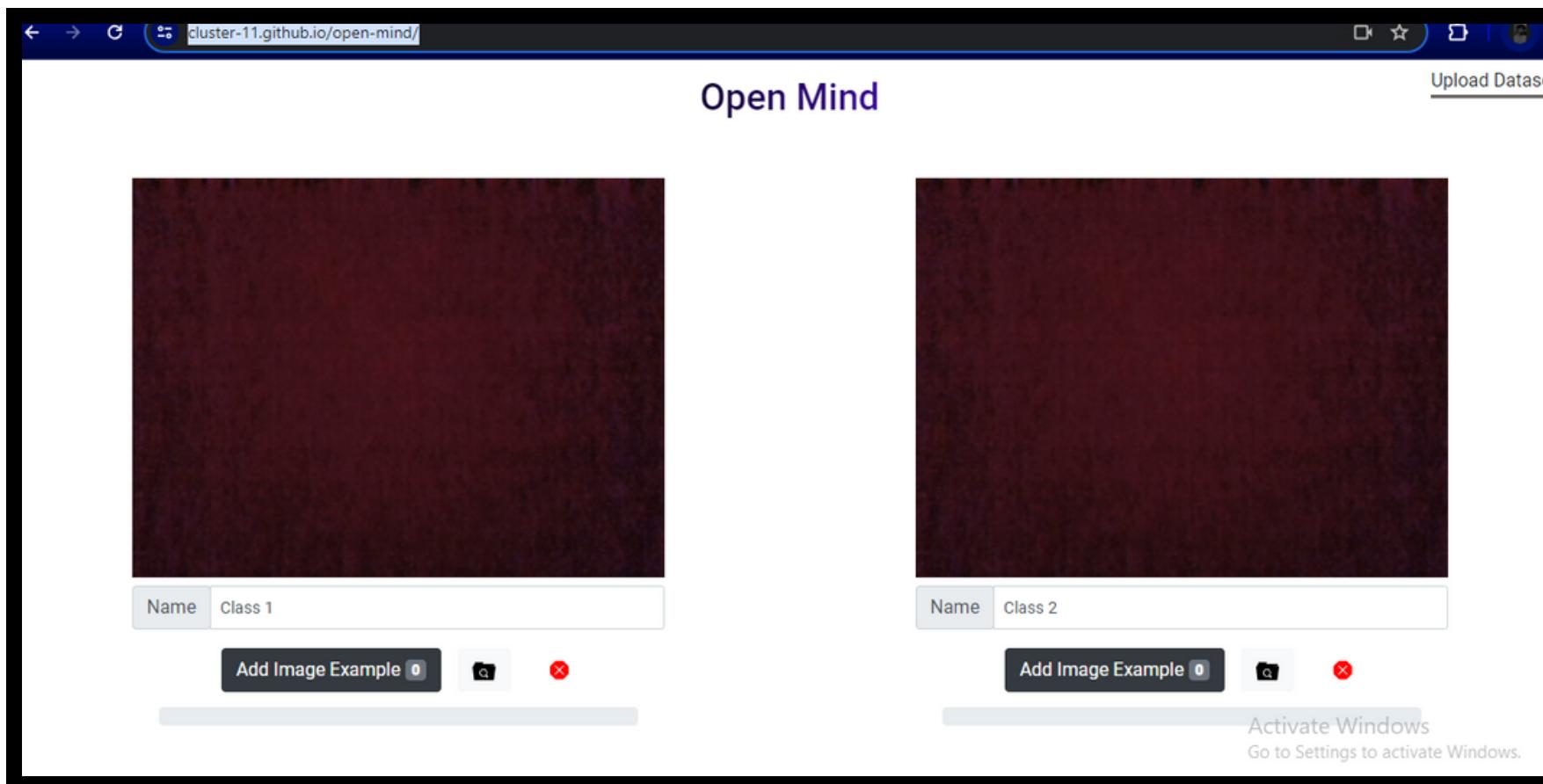
# Supervised Learning



# You all must know about Teachable Machine with Google.



# But do you know, we can make it ourselves too!!



open-mind		
Pull requests	Actions	Projects 1
Wiki	Security	Insights
Prottoy2938 added hwdoi link ✓	6a32cd5 · 9 months ago	118 Commits
docs	Updated the build file	3 years ago
public	Updated favicon link	4 years ago
src	Added more info about the app	3 years ago
.eslintrc.js	Added ml5 as a cdn	4 years ago
.gitignore	Initial Commit	4 years ago
LICENSE	Added License	4 years ago
README.md	added hwdoi link	9 months ago
package-lock.json	added hwdoi link	9 months ago
package.json	Added more info about the app	3 years ago

# Experiment 2

## Text to 3D with Luma AI

 **Luma AI**  
Palo Alto, CA  
131 followers <http://lumalabs.ai/join> @LumaLabsAI

**Popular repositories**

<a href="#">luma-web-examples</a> <span>Public</span> Luma Web Examples, use lumalabs.ai captures directly in your three.js or other WebGL projects! TypeScript ⭐ 251 ⚡ 20	<a href="#">lumaapi-python</a> <span>Public</span> Python library/CLI for Luma API Python ⭐ 19 ⚡ 7
--	--

**Repositories**

Find a repository... Type Language Sort

<a href="#">luma-web-examples</a> <span>Public</span> Luma Web Examples, use lumalabs.ai captures directly in your three.js or other WebGL projects! TypeScript ⭐ 251 MIT ⚡ 20 ⚡ 15 ⚡ 0 Updated on Mar 6	
<a href="#">lumaapi-python</a> <span>Public</span> Python library/CLI for Luma API	

[Follow](#)

You can now follow organizations  
Organization activity like new discussions, sponsorships, and repositories will appear in [your dashboard feed](#).

**OK, got it!**

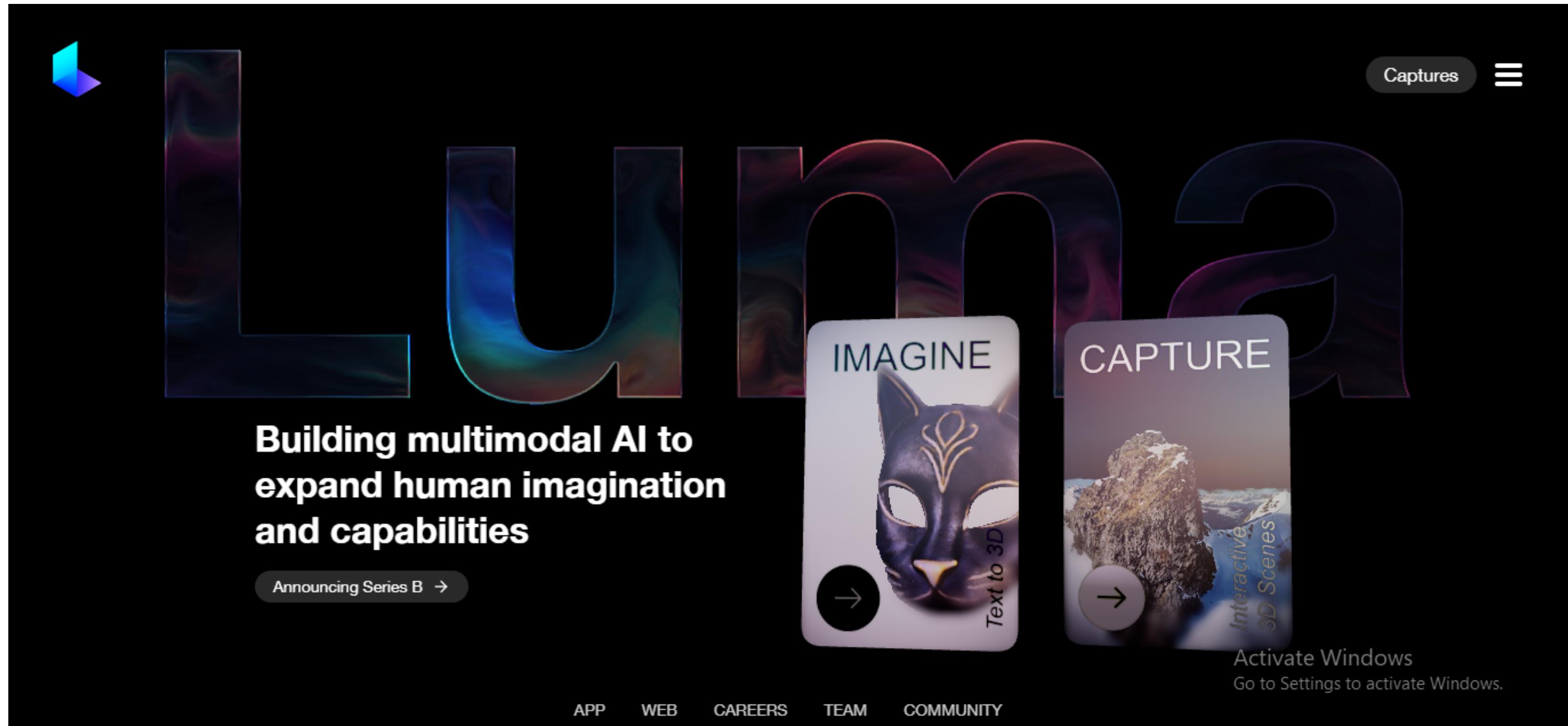
**Top languages**

Python TypeScript

[Report abuse](#)

Activate Win  
Go to Settings to

# Text to 3D with Luma AI



The image shows the Luma AI website homepage. The background features a large, stylized, translucent watermark of the word "Luma". At the top left is a blue and purple logo icon. On the right side, there are two circular buttons: one labeled "Captures" and another with three horizontal lines. Below the watermark, the text "Building multimodal AI to expand human imagination and capabilities" is displayed in white. A "Announcing Series B →" button is located at the bottom left. In the center, there are two cards: "IMAGINE" showing a cat mask with "Text to 3D" text, and "CAPTURE" showing a mountain scene with "Interactive 3D Scenes" text. At the bottom right, there is an "Activate Windows" section with the text "Go to Settings to activate Windows." Navigation links for APP, WEB, CAREERS, TEAM, and COMMUNITY are at the very bottom.

Luma

Captures

IMAGINE

CAPTURE

Building multimodal AI to expand human imagination and capabilities

Announcing Series B →

→

Text to 3D

Interactive 3D Scenes

Activate Windows  
Go to Settings to activate Windows.

APP WEB CAREERS TEAM COMMUNITY

# Experiment 3

## Hugging Spaces

The screenshot shows the Hugging Face Spaces page. At the top, there is a navigation bar with icons for Models, Datasets, Spaces, Posts, Docs, Pricing, and a user profile. Below the navigation bar, the title "Spaces" is displayed with a small icon. A sub-header says "Discover amazing AI apps made by the community!" and includes a "Create new Space" button and a link to "learn more about Spaces.". There are search bars for "Search models, datasets, users..." and "Search Spaces". Below these, a section titled "Spaces of the week" features four cards:

- C4AI Command R Plus** (Running on CPU UPGRADE) - 516 likes, posted 3 days ago by CohereForAI.
- Face to All** (Running on ZERO) - 251 likes, posted about 2 hours ago by multimodalart. Description: "AI filter for your portraits".
- Qwen1.5-32B Chat** (Running) - 92 likes, posted 7 days ago by Qwen.
- nanoLLaVA** (Running on ZERO) - 54 likes, posted 5 days ago by qnguyen3.

Below these cards, there are two more cards partially visible:

- Activate Windows** (Running on A10G) - 82 likes, posted by ActivateWindows.
- Activate Windows** (Running on ZERO) - 98 likes, posted by ActivateWindows. Description: "Go to Settings to activate Windows."

# TransferAnything

Spaces | modelscope/[TransferAnything](#) | like 296 | Running

App Files Community 4

## TransferAnything: Enabling Versatile Visual Information Transfer for Creative Image Synthesis

[Project Page](#) TransferAnything

TransferAnything supports transferring various visual information from any area of any image to create new compositions, offering higher freedom and flexibility in image synthesis. Currently, it supports the transfer of layout, color, style, and pixel content, with more visual information transfer capabilities under continuous development.

[Image Gallery](#) [Image Creation](#)

**Basic Usage**

- Layout Transfer**  
Layout Transfer examples showing how layout is transferred between different rooms.
- Image Variation**  
Image Variation examples showing how style is transferred between cakes and dragons.
- Color Transfer**  
Color Transfer examples showing how color is transferred from a tiger to a character and a ship.
- Style Transfer**  
Style Transfer examples showing how style is transferred from a dragon to a landscape.

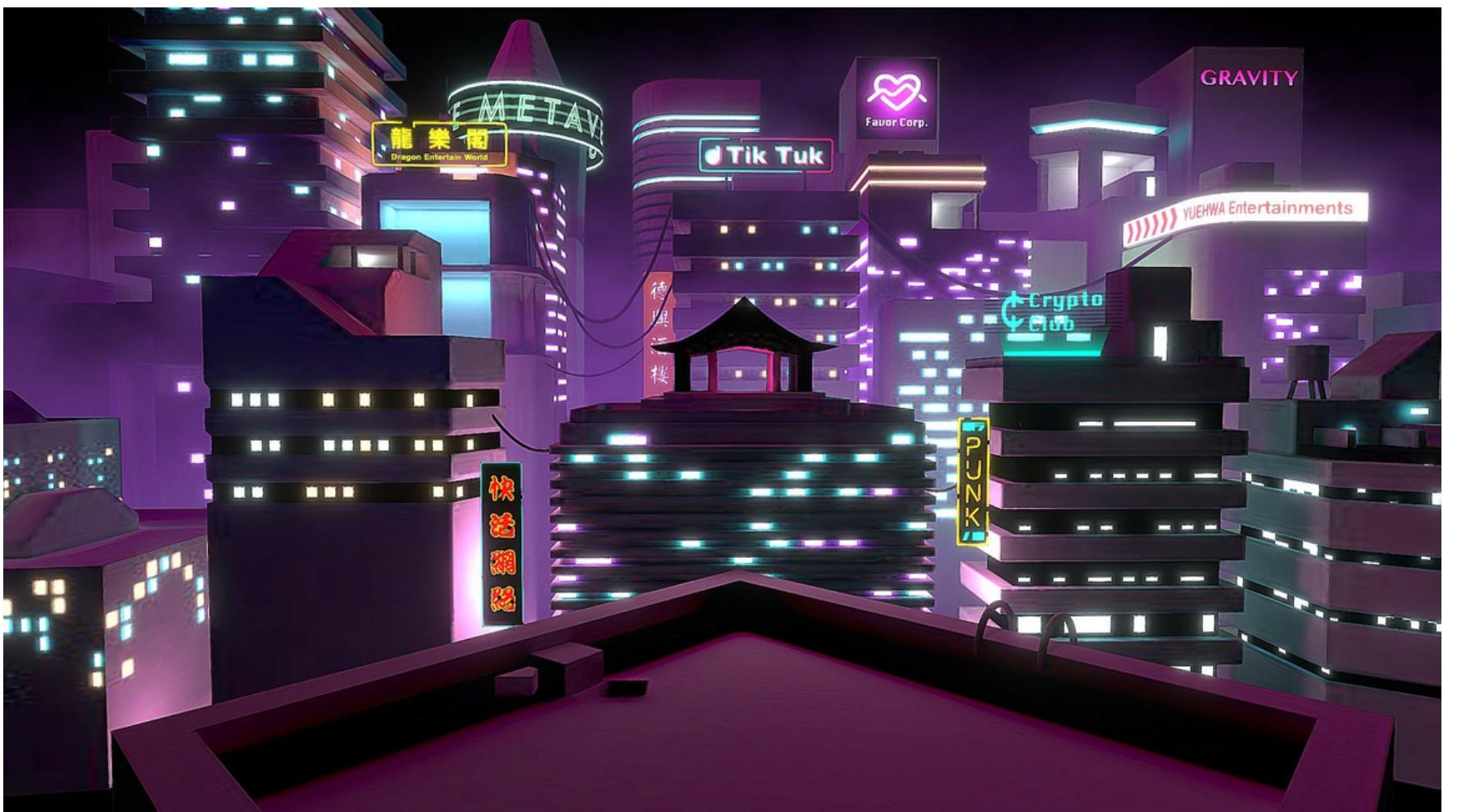
Official example (blue areas indicate regions not intended for transfer)

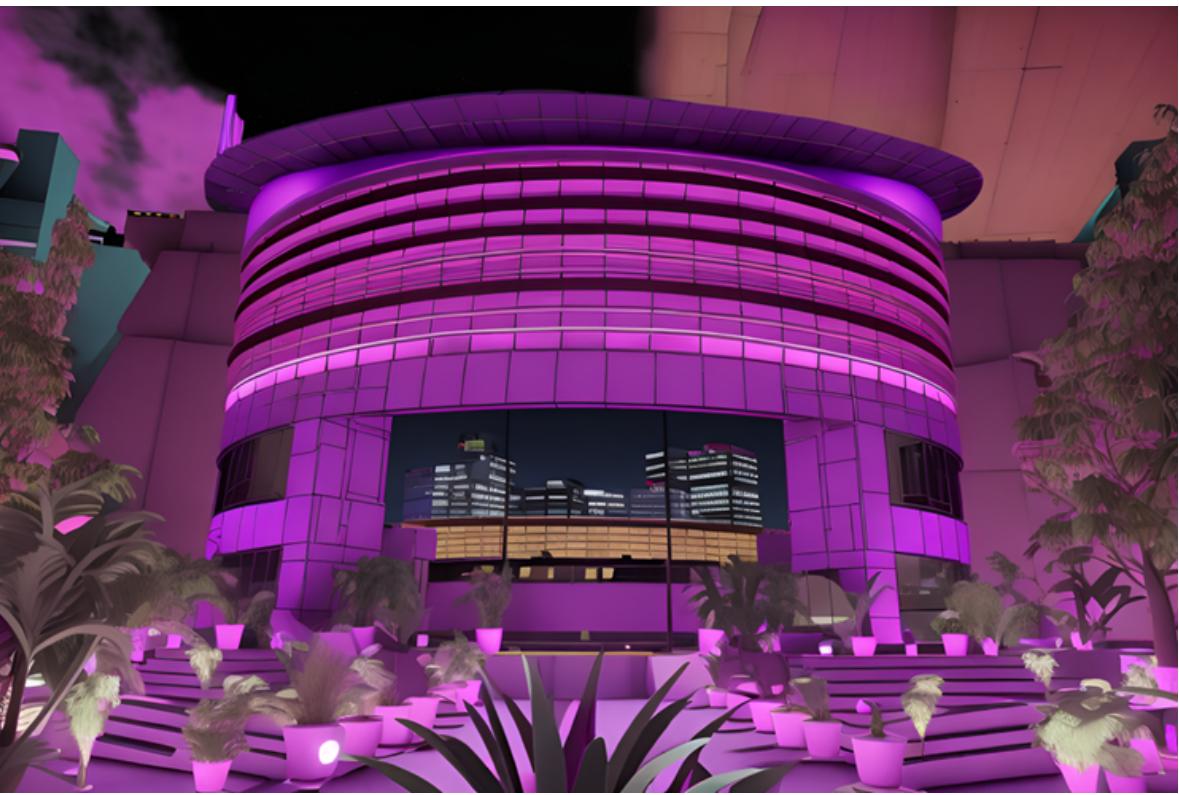
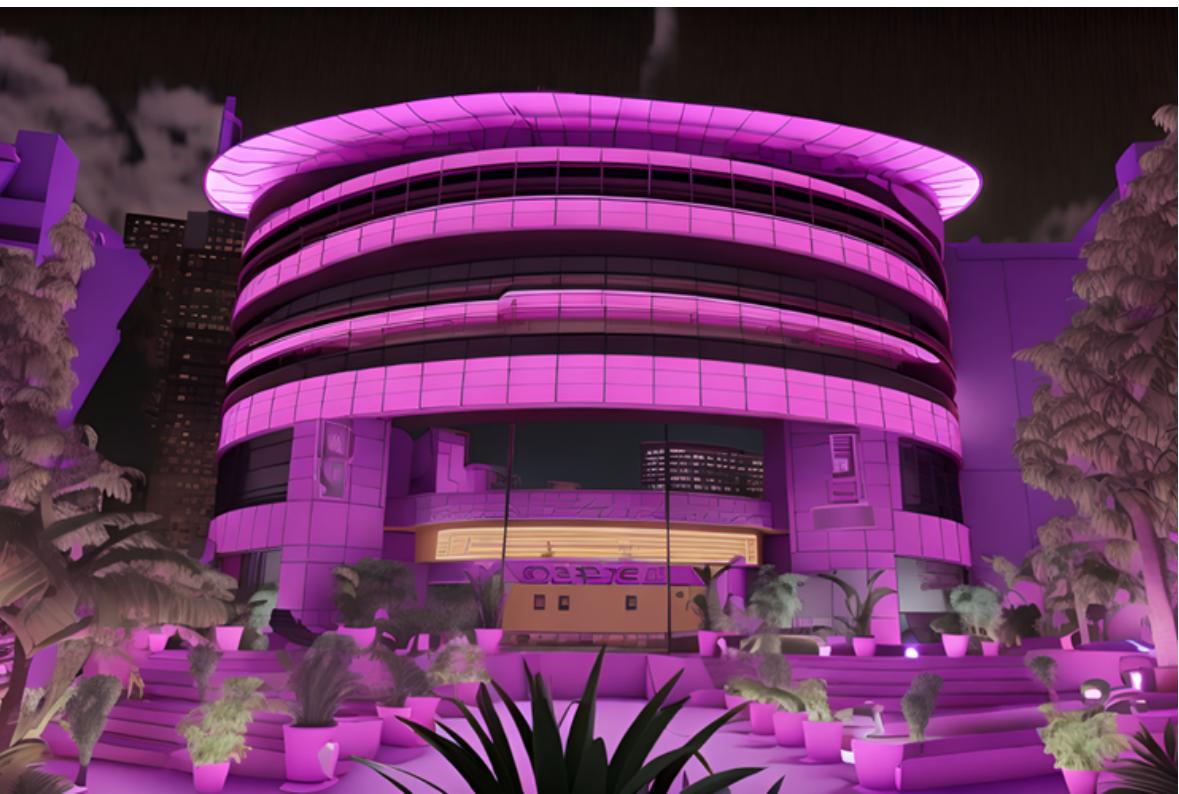
Official example (blue areas indicate regions not intended for transfer)

Official example (blue areas indicate regions not intended for transfer)

Official example (blue areas indicate regions not intended for transfer)

Go to Settings to activate Windows.





# LLAVA

Spaces | badayvedat/LLaVA | like 325 | Running on T4 | App | Files | Community 8 | : |

## LLaVA: Large Language and Vision Assistant

[Project Page] [Paper] [Code] [Model]

ONLY WORKS WITH GPU!

You can load the model with 4-bit or 8-bit quantization to make it fit in smaller hardwares. Setting the environment variable `bits` to control the quantization. *Note: 8-bit seems to be slower than both 4-bit/16-bit. Although it has enough VRAM to support 8-bit, until we figure out the inference speed issue, we recommend 4-bit for A10G for the best efficiency.*

Recommended configurations:

Hardware	T4-Small (16G)	A10G-Small (24G)	A100-Large (40G)
Bits	4 (default)	4	16

llava-v1.5-13b-4bit

Image

Drop Image Here  
- or -  
Click to Upload

LLaVA Chatbot

Who is he?

He is Spider-Man, a superhero from the Marvel Comics universe.

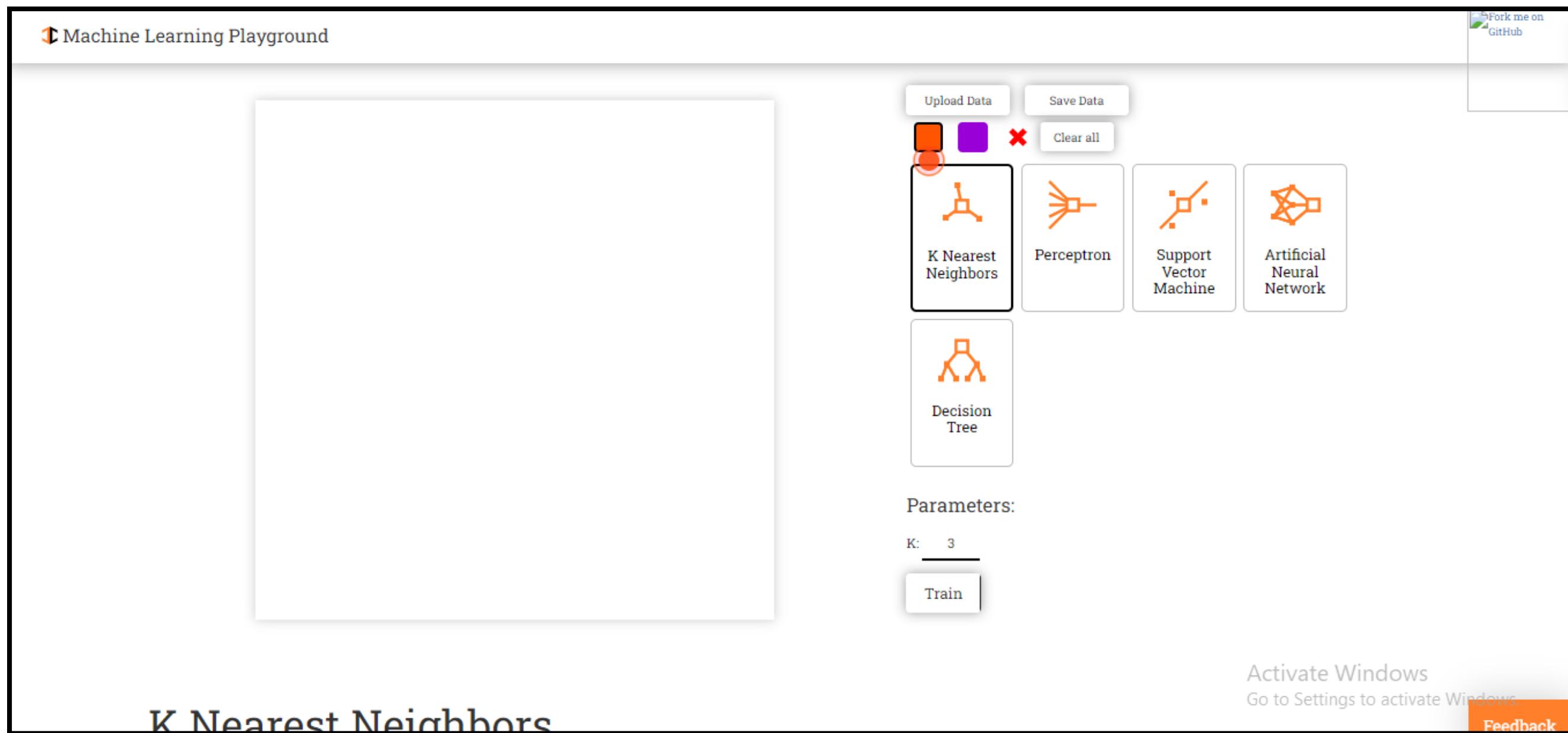
Who is the actor

The actor playing Spider-Man is Tom Holland

Activate Windows  
Go to Settings to activate Windows.

# Experiment 4

## Fun way to understand Algos



# Bonus

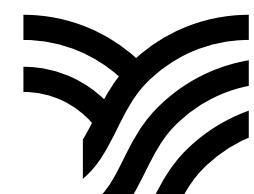
A vibrant, abstract illustration of a sailboat on water. The background is composed of dynamic, radiating brushstrokes in shades of orange, yellow, teal, and blue, creating a sense of motion and energy. A small sailboat with two sails is positioned in the lower-left quadrant, its sails catching the light from the rising or setting sun. The overall composition is artistic and celebratory.

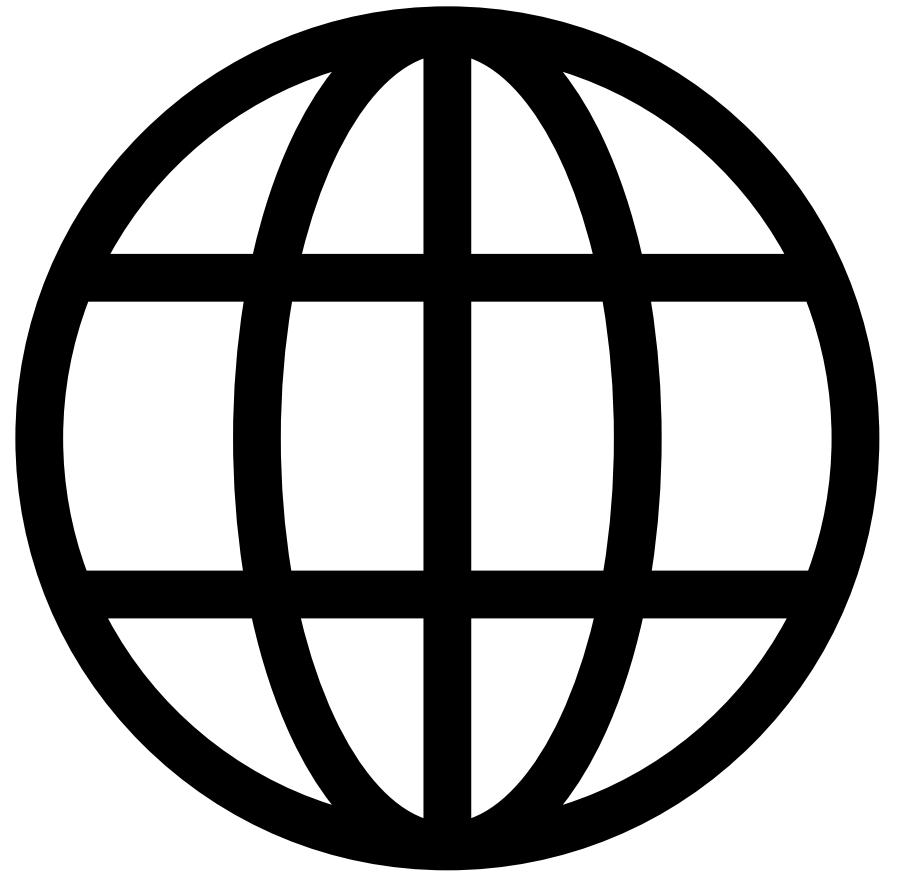
**Mixtral 8x22B released**  
New 176B MoE LLM from MistralAI

**By Ashwany Kumar Sharma**

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# **WEB 3**





TO GET STARTED WITH WEB3, LETS UNDERSTAND  
WEB FIRST??

Have you ever thought about how irrespective of  
operating system and browser everything looks  
exactly the same around the web??

# W3C??



# BLOCKCHAIN??

## WHAT IS THIS SHIIIIII??

It is basically like a big digital notebook that keeps track of who owns what and who traded when.

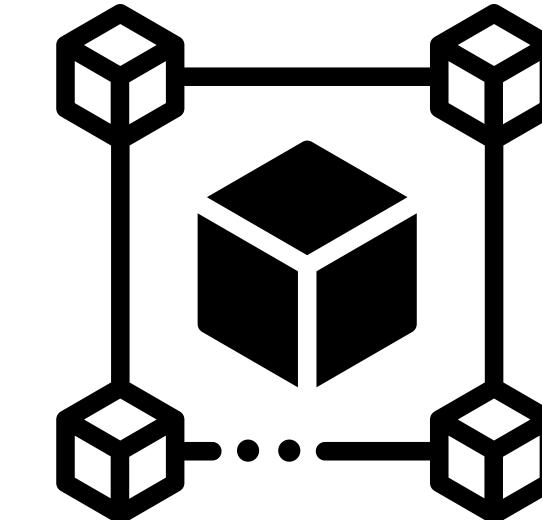
## Definition

Blockchain is basically a distributed and immutable ledger that is used to record transactions and store data in a secure and transparent manner.

## BLOCKS AND NODES??

A Block contains records, It is a data structure that stores set of transactions recorded by network nodes through consensus.

A Node is a computer which stores the history of blockchain and keeps a copy of global transaction ledger.



a

# DECENTRALIZATION??

## Why is it needed??

Until now everything was on centralized system which is basically all the internet was controlled by a centralized entity??

By which data breaches was a common occurrence and exposed a lot of data  
Everything was controlled by single entity which gives them control over internet.

## Definiton

Storing data in a peer to peer network of nodes, the blockchain is a decentralized network.  
Even if data breach takes place then it will not reveal all the data. Just transactions

## BENEFITS

Decentralization will be peer to peer network which means it is governed by a collective 'we' rather than centralized entities/

# WEB VERSIONS

## Web 1(1980's - early 2000's)

The first phase of the internet, Web 1 was basically providing everyday consumer with online content and information.

There was no interaction  
Just read only type  
It was the time of Internet explorer, yahoo

## Web 2

We use it today  
It is read,write and interactive  
Internet became more usable  
It is dynamic,in which people can consume,interact or create content.  
Rise of smartphones due to which use of internet increased.

## Web 3

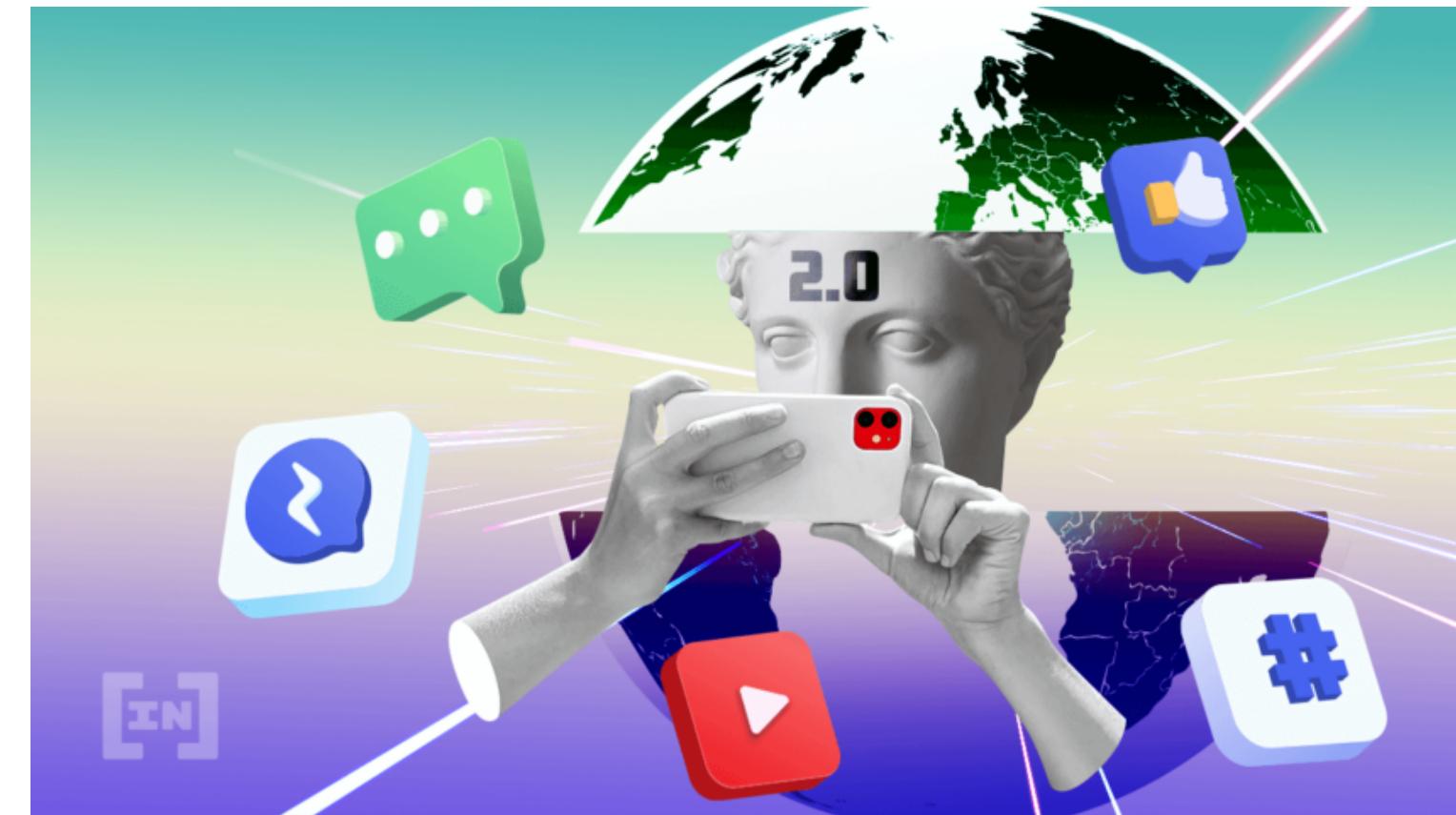
Too soon  
Lets shift our focus back to web 2

# WEB 2??

Today the world internet is dominated by big tech giants like apple, amazon , facebook and google  
Hence, the internet is increasingly controlled by these leading digital platforms

| Take example of Apple, 30% of the paid apps download and in app purchases are controlled and owned by apple  
Even president of United states was de-platformed by facebook and twitter.

| Consumers has less privacy , security and control over there own data.  
Data breaches is a common occurrence



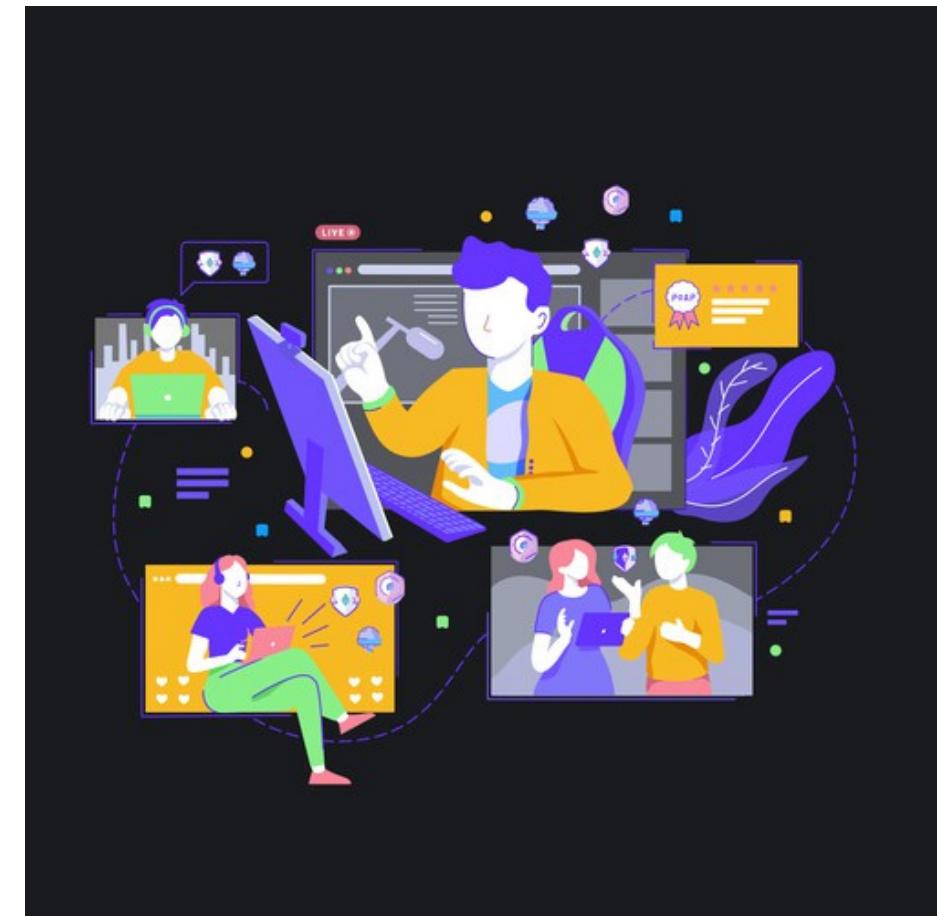
# WEB 3

Web 3, the future of internet we're moving towards is a decentralized internet

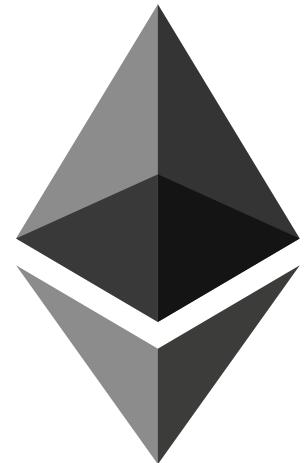
Internet is governed by a collective "we" rather than centralized entities. It follows open source protocols. Web-3 services will benefit people rather than entities. It is getting built such that everything would happen in a decentralized distributed way.

Consumers has less privacy , security and control over there own data. Data breaches is a common occurrence

'It is Permissionless' in that anyone, both users and suppliers, can participate without authorization from a governing body.



# Ethereum & Solidity



Ethereum is a decentralized blockchain that supports smart contracts. Unlike Bitcoin, which only supports the transfer of the Bitcoin token around the network, Ethereum is more general purpose.

Developers can build dApps, or decentralized applications, which can be executed on the Ethereum network on the Ethereum Virtual Machine (EVM). The global state of Ethereum therefore consists of more than just the balance of every account, but also the state of each dApp. dApps are built on Ethereum using its programming language, Solidity.

Solidity is an object-oriented, high-level language for implementing smart contracts.

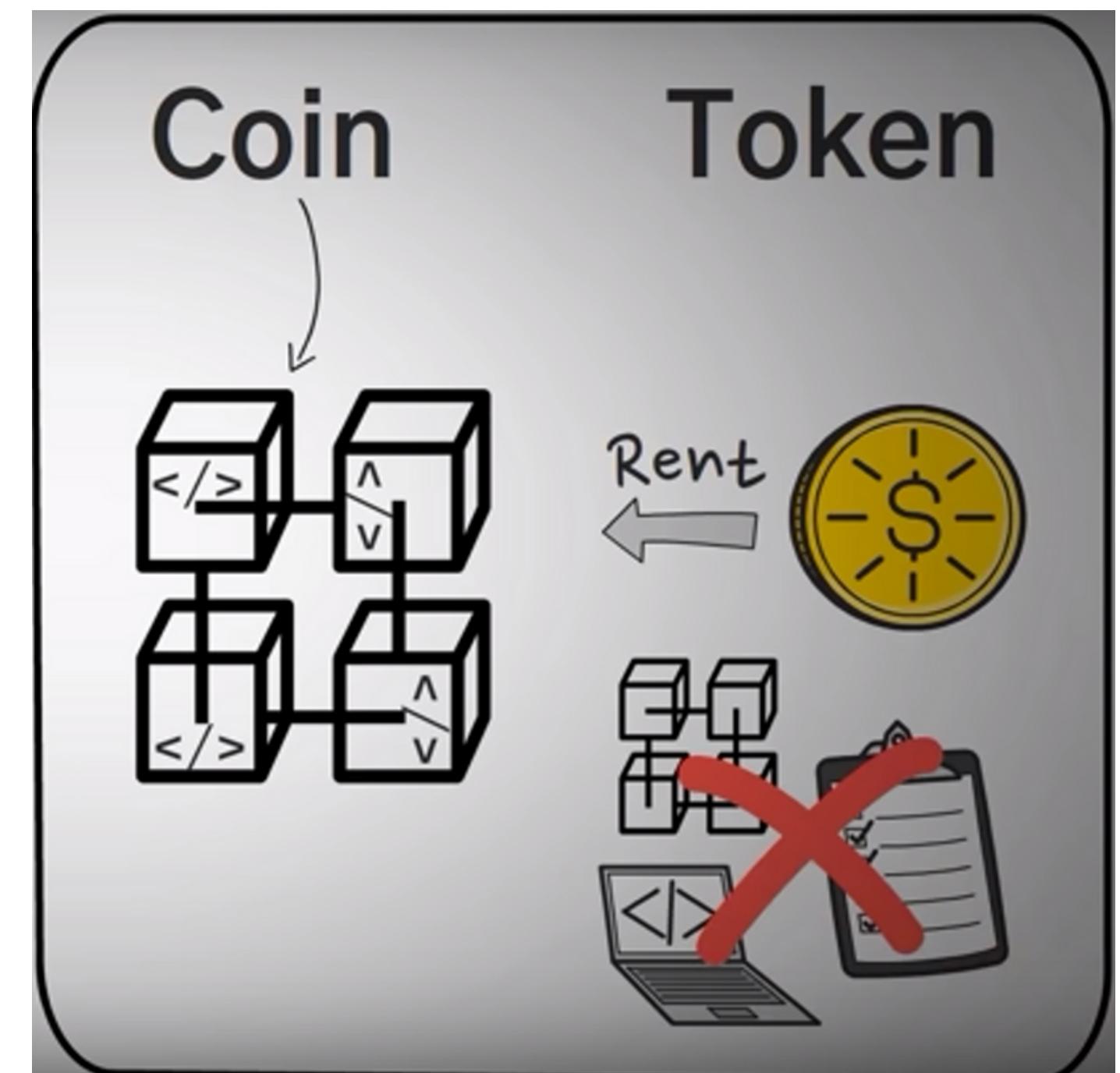
A smart contract is like a digital agreement that automatically executes itself when certain conditions are met. Once it's set up, it works on its own without the need for intermediaries, making transactions more efficient, secure, and transparent.

# Crypto Coins & Tokens

Coins typically refer to digital currencies that operate independently on their own blockchain networks.

Tokens are digital assets that exist on existing blockchain platforms, such as Ethereum

ERC-20 is the token which comes under ethereum blockchain technology



# Lets Make Our Own Tokens

You Need Make A Metamask Id and Install its extension

You can get smart contracts from open zeppelin's github repository  
Its an preloaded smart contract just like a library  
which helps you to make tokens.

```
/SPDX-License-Identifier: MIT

pragma solidity 0.8.25; //what version to use

import "https://github.com/OpenZeppelin/openzeppelin-contracts/blob/master/contracts/token/ERC20/ERC20.sol"; //importing contr
import "https://github.com/OpenZeppelin/openzeppelin-contracts/blob/master/contracts/access/Ownable.sol";

contract DTC is ERC20("DTC Token", "D"){

function mintFifty() public{    infinite gas
    _mint(msg.sender, 50*10***18 );
}
```

# Writing IEEE Research Papers with Open Source Tools

Creating Professional Research Papers  
Efficiently



Shristi Pandey  
Research Head

Group No	Students	Title of Research Paper
1	Pragya Tanvi Gupta Surbhi Ambardar	AI in Creativity: Generative Art and Music
2	Varsha Rishika Soni	AI in Wildlife Conservation: Intelligent Monitoring and Anti-Poaching Solutions
3	Tanya Singh Khushi Garg Sarmistha Sutradhar	Scalable Web Architectures for Big Data Processing
4	Chanakya Parul Anushika Prabhat	Use of AI to determine whether a video is fake or not / edited or not
5	Ubiquity Sinha Ray Tanya Agrahari Palak Dusiyा	Voice User Interfaces (VUIs) in Web Development: Designing and Implementing Voice-Activated Web Applications.
6	Shreshtha Verma Sanjam Kaur	Web Development and Blockchain Integration: Exploring Decentralized Web Applications (dApps)
7	Diksha Shreya Sikha	Waste Management Innovations: AI-Driven Recycling Technologies and Circular Economy Solutions
8	Nikhil Saini Vanshika Singhwal	Serverless Web Development: Architectural Trends and The Impact on Scalability and Cost Efficiency.
9	Vanya Raman Shivam Arora Shreya Manjera	Optimizing Model-Based System Engineering Processes: A Holistic Exploration of Efficiency Enhancements
10	Pritish Gupta Keshav Jaiswal Shreshth Gupta	An evaluation of the role of artificial intelligence in financial forecasting and risk management in cryptocurrency
11	Palak Rastogi Naman Mittal Tiya Jain	Progressive Web Apps (PWAs) and User Engagement: Evaluating the Effectiveness of Offline-First Web Applications
12	Sana Shweta Muskaan	Engineering Challenges in Integrating ML into Existing Systems:

13	Ashwani Kumar Bhatnagar Avishouray Raj Rishu kumar	Revolutionizing Recommender Systems: Unraveling the Dynamics of Recommendation Algorithms through Innovative Approaches
14	Nikhil Prakash Karan Raj	Dynamic Change Detection in Traffic Flow Patterns using data science.
15	Raghav jindal Shah kamil ahmad Sajal jha	AI in Neurological Disorders: Leveraging Machine Learning for Early Detection of Alzheimer's Disease.
16	Shubham Das Rahul Kumar Ayush Gupta	Security Challenges in Web-Based Data Science Platforms
17	Arjya Kumar Porel Shivam Raj Saurabh Singh	Fusion of Artificial Intelligence and Material Science: Pioneering Novel Material Design Strategies
18	Kush Gupta Aakash Karhana Yatin bisht	Enhancing Monte Carlo Simulations through Novel Machine Learning Filters: A Comparative Study
19	Vinay Chauhan Diti Vashishth (DS)	Applying Machine Learning Techniques to Enhance Conjoint Analysis: A Novel Approach
20	Himanshu	Transformative Insights into Web Page Ranking: Leveraging Machine Learning for SEO-Parameter-Based Estimation in Search Engines
21	Madhurima Pathak Pranshi Satkarsh Deivedi	Exploring Advanced Machine Learning Techniques for Question Classification in Question Answering Systems

# Research Papers under me

# Importance of IEEE Research Papers

- 1. Respected:** IEEE papers are globally respected.
- 2. Sharing Ideas:** They spread new discoveries.
- 3. Advancing Knowledge:** They push science and tech forward.
- 4. Quality Checked:** Reviewers ensure they're good.
- 5. Global Teamwork:** People worldwide collaborate on them.

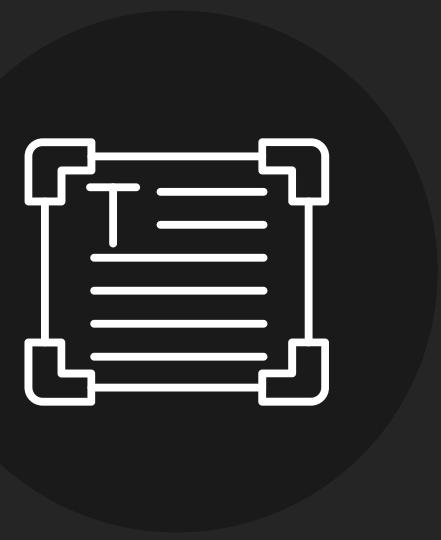


# Benefits of using open-source tools for writing research papers

1. **Low Cost:** Open-source tools are free, saving money.
2. **Customizable:** You can change them to fit your needs.
3. **Help from Others:** Communities offer support and guidance.
4. **Always Getting Better:** They improve based on user feedback.
5. **Work Together:** Easy collaboration with others.



# Text Editors:



- **Atom**: User-friendly interface, customizable with plugins, suitable for beginners.
- **VS Code**: Feature-rich, with LaTeX and Markdown extensions, great for formatting research papers, preferred by coding researchers.
- **Emacs**: Highly customizable, powerful editing, for advanced users seeking control, suitable for flexible research projects.

## Features of LaTeX Editing:

1. **Markup Language**: Simplifies content creation without formatting concerns.
2. **High-Quality Typesetting**: Produces professional documents with precise layout.
3. **Math Typesetting**: Excellent for mathematical expressions.
4. **Cross-Referencing**: Easily links sections, figures, and citations.
5. **Bibliography Management**: Manages references seamlessly with BibTeX.
6. **Templates**: Offers ready-made templates for various document types.
7. **Version Control**: Integrates with Git for collaborative writing.
8. **Extensibility**: Supports extensions and customization for added functionality.

# LaTeX Basics

- **Introduction to LaTeX:**
  - LaTeX prioritizes content structure over formatting.
  - Ideal for crafting polished documents like research papers.
- **Installing LaTeX Distribution:**
  - Install TeX Live or MiKTeX for LaTeX capabilities.
  - Includes compilers and packages essential for document creation.
- **Getting Started:**
  - Write LaTeX documents using a text editor.
  - Compile with LaTeX compiler to produce PDFs.
  - Resources available for mastering LaTeX syntax and formatting.



# IEEE Research Paper Format

We can use LaTeX Template for Research Paper :-

<https://www.overleaf.com/latex/templates/ieee-conference-template/grfzhnqsfqn>

- 1.Title:** The name of your study.
- 2.Abstract:** A summary of your paper's main points.
- 3.Introduction:** Background info and your research aim.
- 4.Methods:** How you conducted your study.
- 5.Results:** What you found from your research.
- 6.Discussion:** Interpretation and analysis of results.
- 7.Conclusion:** Summary of your findings.
- 8.References:** Sources you used in your paper.

# overleaf interface

The screenshot shows the Overleaf interface with a dark theme. The top navigation bar includes icons for file operations (New, Open, Save, Delete), a code editor tab (selected), a visual editor tab, font size (C), font style (B I), a search icon (Q), a recompile icon (Recycle Bin), and download icons.

The left sidebar contains a file tree:

- conference\_101719...
- conference\_101...** (selected)
- fig1.png
- IEEETran\_HOWTO.pdf
- IEEETran.cls

The **File outline** section lists:

- Introduction
- Ease of Use
  - Maintaining the l...
- Prepare Your Paper ...
  - Abbreviations an...
  - Units
  - Equations

The main area displays the LaTeX code for a conference paper template:

```
1 \documentclass[conference]{IEEEtran}
2 \IEEEoverridecommandlockouts
3 % The preceding line is only needed to identify funding in the
4 % first footnote. If that is unneeded, please comment it out.
5 \usepackage{cite}
6 \usepackage{amsmath,amssymb,amsfonts}
7 \usepackage{algorithmic}
8 \usepackage{graphicx}
9 \usepackage{textcomp}
10 \usepackage{xcolor}
11 \def\BibTeX{{\rm B}\kern-.05em{\rm \i{e}}\kern-.125em{\rm X}}\kern-.08em
12 \kern-.1667em\lower.7ex\hbox{E}\kern-.125emX\}
13 \begin{document}
14 \title{Conference Paper Title*\\}
15 {\footnotesize \textsuperscript{*}Note: Sub-titles are not
16 captured in Xplore and
17 should not be used}
18 \thanks{Identify applicable funding agency here. If none,
19 delete this.}
```

The right side features a preview window titled "Conference Paper Title\*" and a sidebar with instructions for author information and document specifications.

**Conference Paper Title\***

\*Note: Sub-titles are not captured in Xplore and should not be used

1 <sup>st</sup> Given Name Surname dept. name of organization (of Aff.) name of organization (of Aff.) City, Country email address or ORCID	2 <sup>nd</sup> Given Name Surname dept. name of organization (of Aff.) name of organization (of Aff.) City, Country email address or ORCID	3 <sup>rd</sup> Given Name Surname dept. name of organization (of Aff.) name of organization (of Aff.) City, Country email address or ORCID
4 <sup>th</sup> Given Name Surname dept. name of organization (of Aff.) name of organization (of Aff.) City, Country email address or ORCID	5 <sup>th</sup> Given Name Surname dept. name of organization (of Aff.) name of organization (of Aff.) City, Country email address or ORCID	6 <sup>th</sup> Given Name Surname dept. name of organization (of Aff.) name of organization (of Aff.) City, Country email address or ORCID

**Abstract**—This document is a model and instructions for  $\text{\LaTeX}$ . This and the IEEETran.cls file define the components of your paper [title, text, heads, etc.]. \*CRITICAL: Do Not Use Symbols, Special Characters, Footnotes, or Math in Paper Title or Abstract.

**Index Terms**—component, formatting, style, styling, insert

**I. INTRODUCTION**  
This document is a model and instructions for  $\text{\LaTeX}$ . Please observe the conference page limits.

**II. EASE OF USE**

**A. Maintaining the Integrity of the Specifications**

The IEEETran class file is used to format your paper and style the text. All margins, column widths, line spaces, and text fonts are prescribed; please do not alter them. You may note peculiarities. For example, the head margin measures proportionately more than is customary. This measurement and others are deliberate, using specifications that anticipate your paper as one part of the entire proceedings and not as an

**A. Abbreviations and Acronyms**  
Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, ac, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

**B. Units**

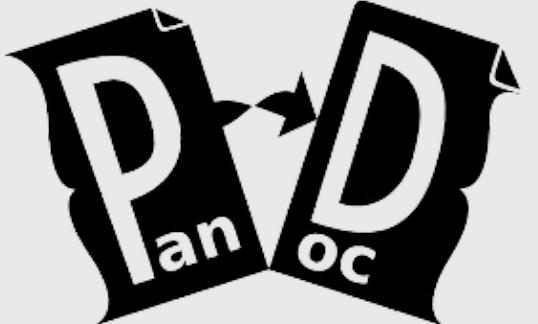
- Use either SI (MKS) or CGS as primary units. (SI units are encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as "3.5-inch disk drive".
- Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity that you use in an equation.
- Do not mix complete spellings and abbreviations of units: "Wb/m<sup>2</sup>" or "webers per square meter", not "webers/m<sup>2</sup>". Spell out units when they appear in text: "... a few

# Importance of Referencing in Preventing Plagiarism

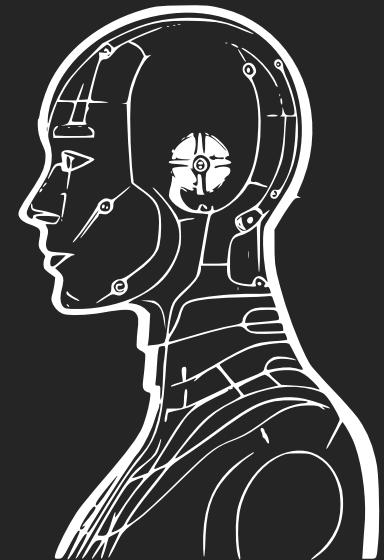
- **Understanding Plagiarism:**
  - Plagiarism is using others' work without proper acknowledgment, compromising academic integrity.
- **Role of Referencing:**
  - Referencing credits original authors, showing respect for intellectual property and promoting honesty.
- **Preventing Plagiarism:**
  - Proper referencing distinguishes between original and borrowed ideas, preventing unintentional plagiarism.
- **Academic Integrity:**
  - Referencing upholds academic honesty, transparency, and ethical research practices.
- **Consequences of Plagiarism:**
  - Plagiarism leads to academic penalties and damages credibility, while referencing safeguards against misconduct accusations.

# Collaboration with Open-Source Tools for Research Papers

- Overleaf: Collaborate in real-time on LaTeX documents with features like version control and commenting.
- GitLab and GitHub: Use version control features to manage changes and collaborate on research paper drafts.
- Zotero: Organize and cite sources collaboratively with this reference management tool.
- Pandoc: Convert between different document formats seamlessly, allowing for collaborative writing in preferred formats.



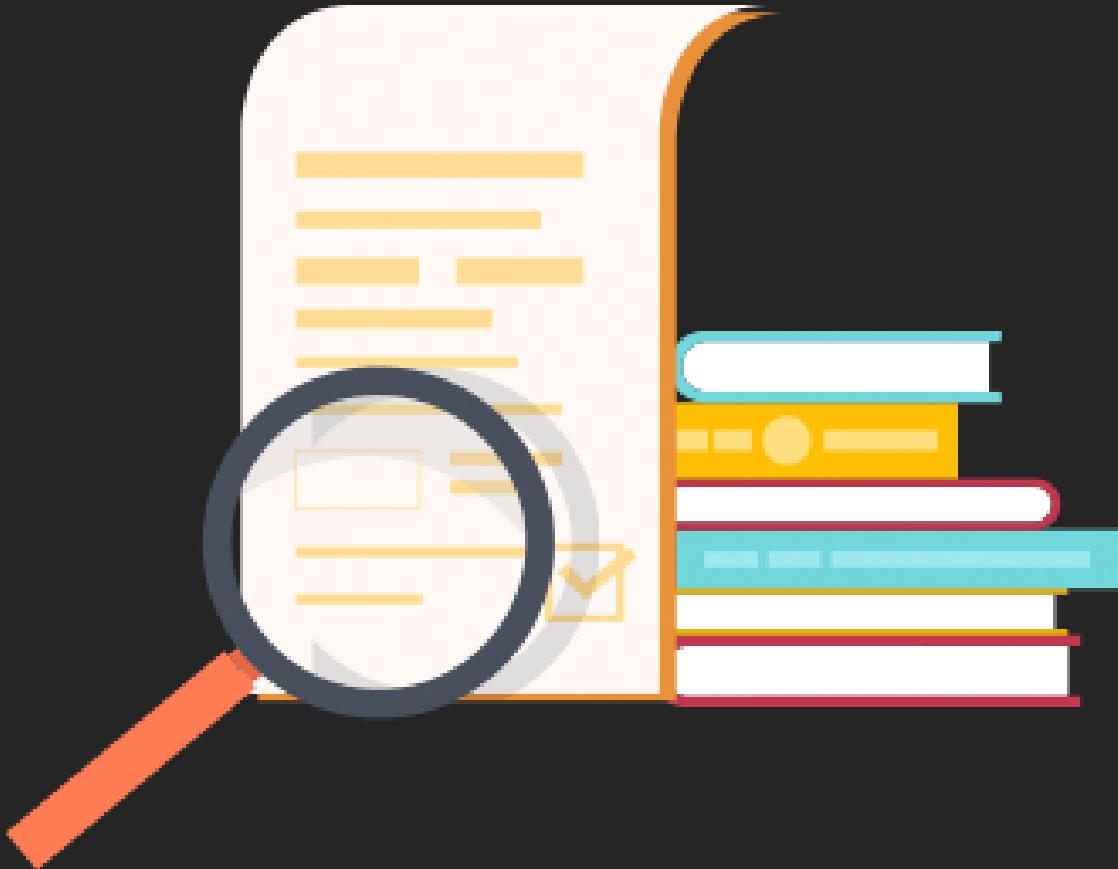
# Using AI



- **Efficient Literature Review:** AI analyzes vast literature to extract key insights quickly.
- **Advanced Data Analysis:** AI processes large datasets, revealing hidden patterns and enhancing conclusions.
- **Language Support:** AI writing assistants like Grammarly aid in clarity and correctness.
- **Automated Writing:** AI generates content based on prompts, aiding in drafting sections.
- **Citation Management:** Tools like Zotero automate referencing and citation formatting.
- **Plagiarism Detection:** AI tools like Turnitin ensure research integrity by identifying plagiarism.
- **Peer Review Support:** AI assists in identifying potential reviewers and assessing manuscript quality

# Finalizing Your Paper

- **Review and Edit:** Look over your paper carefully. Make it clear and correct any mistakes.
- **Formatting:** Make sure your paper looks right. Use the right layout and style.
- **Proofreading:** Check for spelling and grammar errors. Use tools to help.
- **Peer Feedback:** Get advice from friends or experts. Improve your paper based on what they say.
- **Final Checks:** Make sure everything is perfect. Check references, figures, and everything else.
- **Submission:** Send your paper to the right place at the right time. Follow the rules.
- **Celebration:** Congratulate yourself! You did a great job. Think about what's next for you.



# Key Points :-

- **Open-Source Tools:** Open-source tools offer powerful support for IEEE papers.
- **Efficiency and Collaboration:** They enhance efficiency and collaboration among researchers.
- **Quality Assurance:** These tools ensure quality and accuracy in research writing.
- **Flexibility and Adaptability:** Open-source tools adapt to researchers' needs and preferences.
- **Empowerment:** They empower researchers to produce high-quality IEEE papers with ease.

# THANK YOU

- 🌟 Dive into the world of open-source tools for IEEE papers! 🚀
- 🔍 Discover innovative tools for efficient writing and collaboration. 💡
- 💪 Empower yourself with flexibility and creativity.
- 📚 Let curiosity lead you to new discoveries. ✨

Contact : Shristi Pandey

Mail: shristipandey2020@gmail.com



# Please Fill The Feedback Form:

