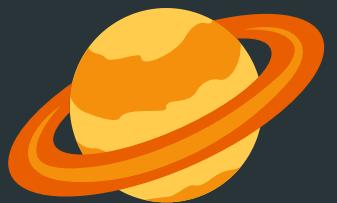
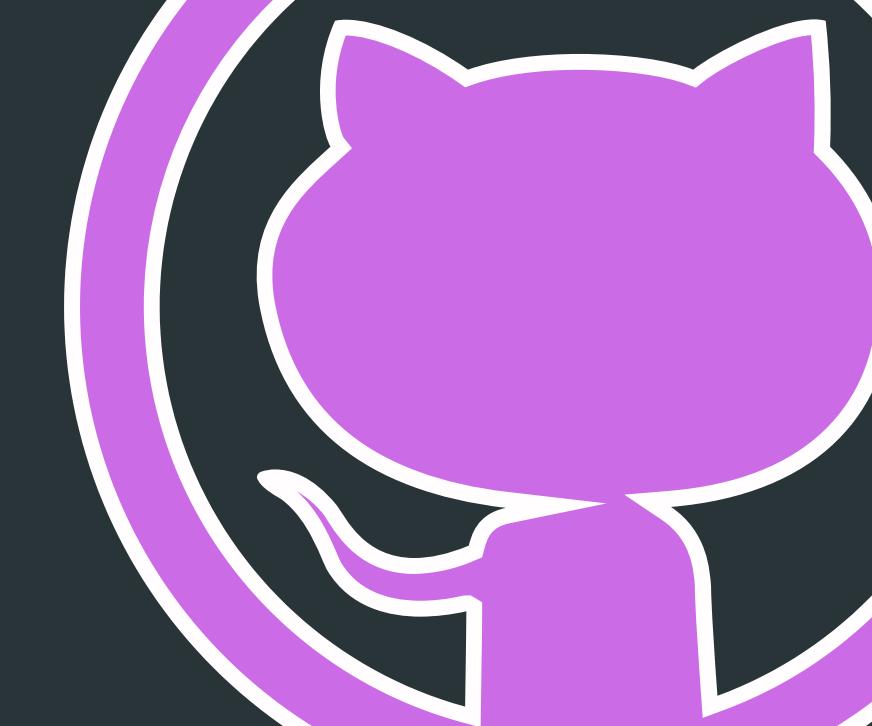


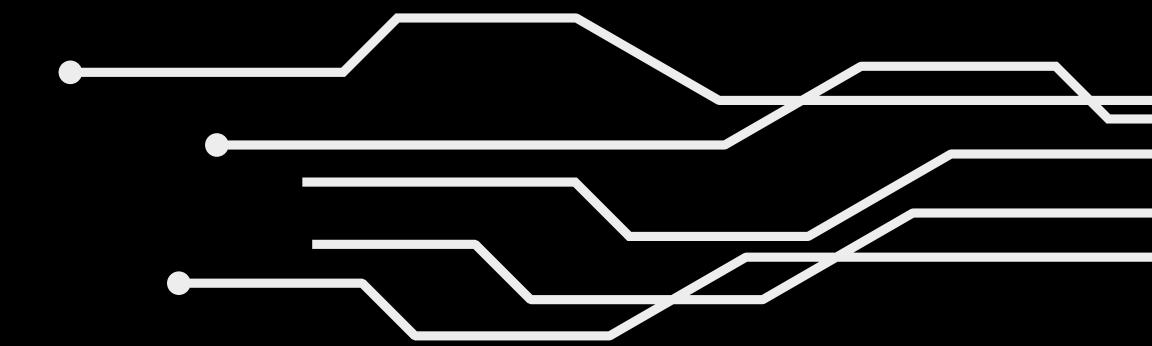
Basic Python Programming

# Github Project

*Expert - Pertemuan 13*



# Roadmap



- Mengenal Git
- Fungsi Git
- Mengenal Github
- Fungsi Github
- Cara menggunakan Github

# Apa itu Git?

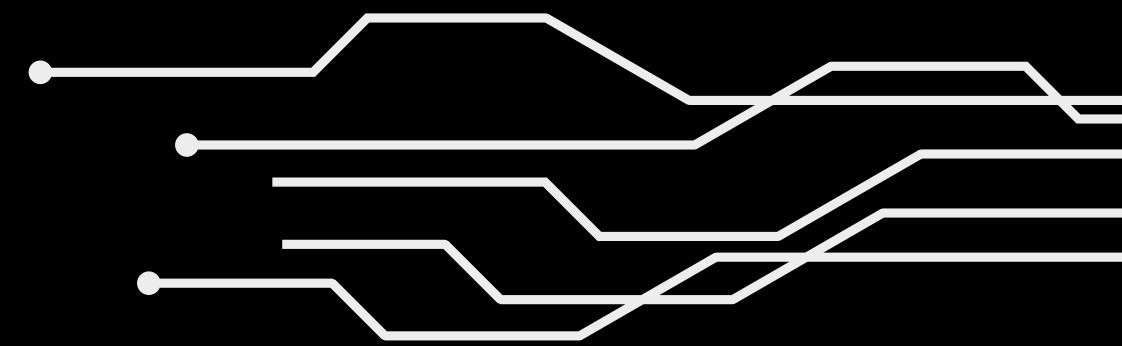


# Mengenal Git

- Git adalah salah satu sistem pengontrol versi (**Version Control System**) pada proyek perangkat lunak yang diciptakan oleh Linus Torvalds.

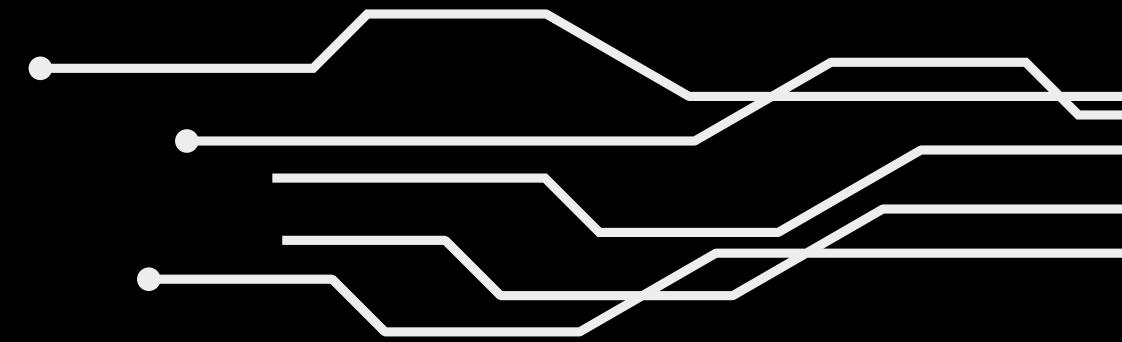


# Mengenal Git



- Version control adalah **sistem yang mencatat semua perubahan kode** pada project. Sistem ini penting agar Kita bisa melihat semua riwayat perubahan kode.

# Ilustrasi VCS(Manual)



final.doc



final-revisi.doc



final-revisi-lagi.doc



final-revisi  
lagi-lagi.doc

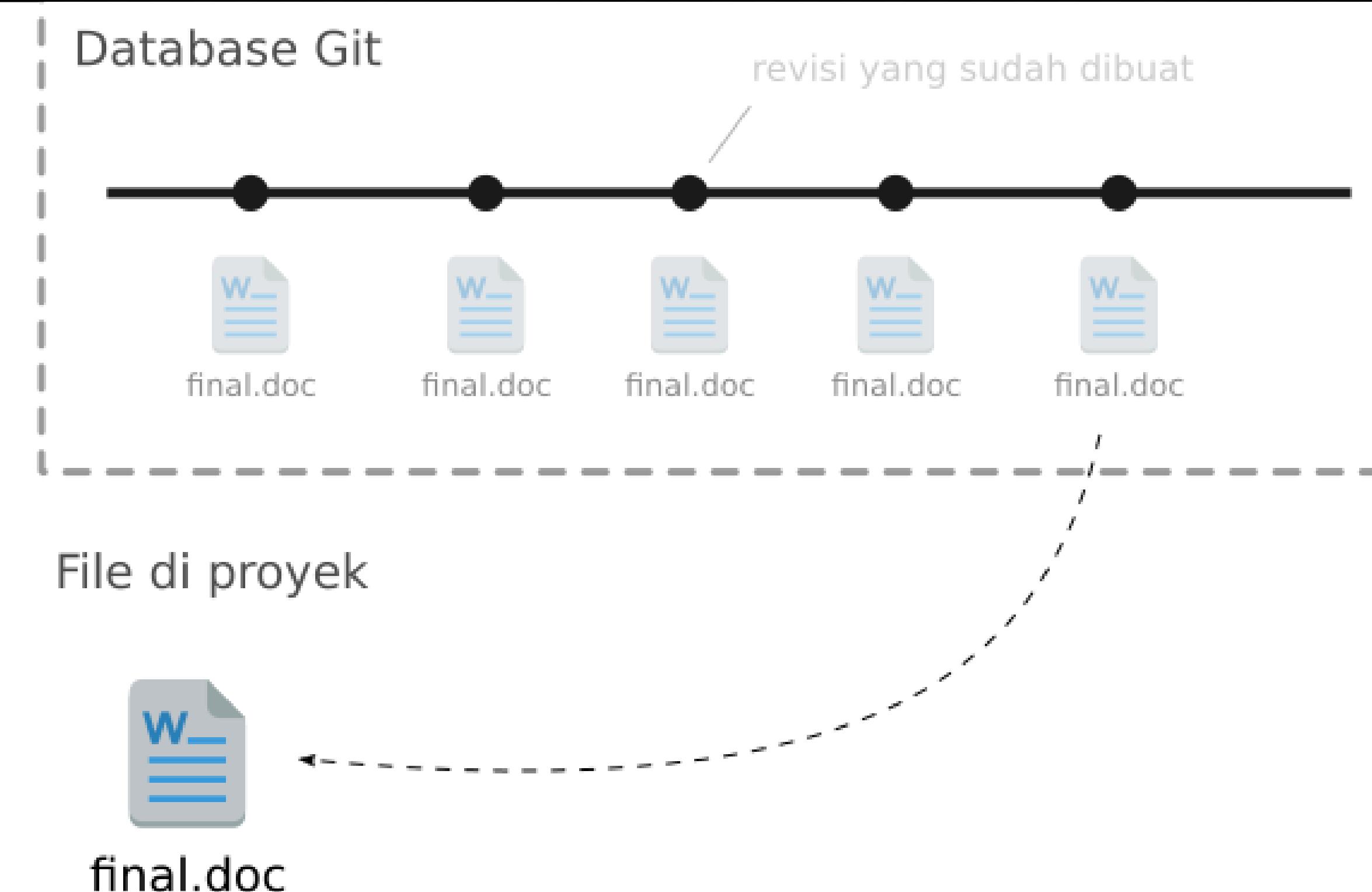


final-revisi  
lagi-lagi-final.doc

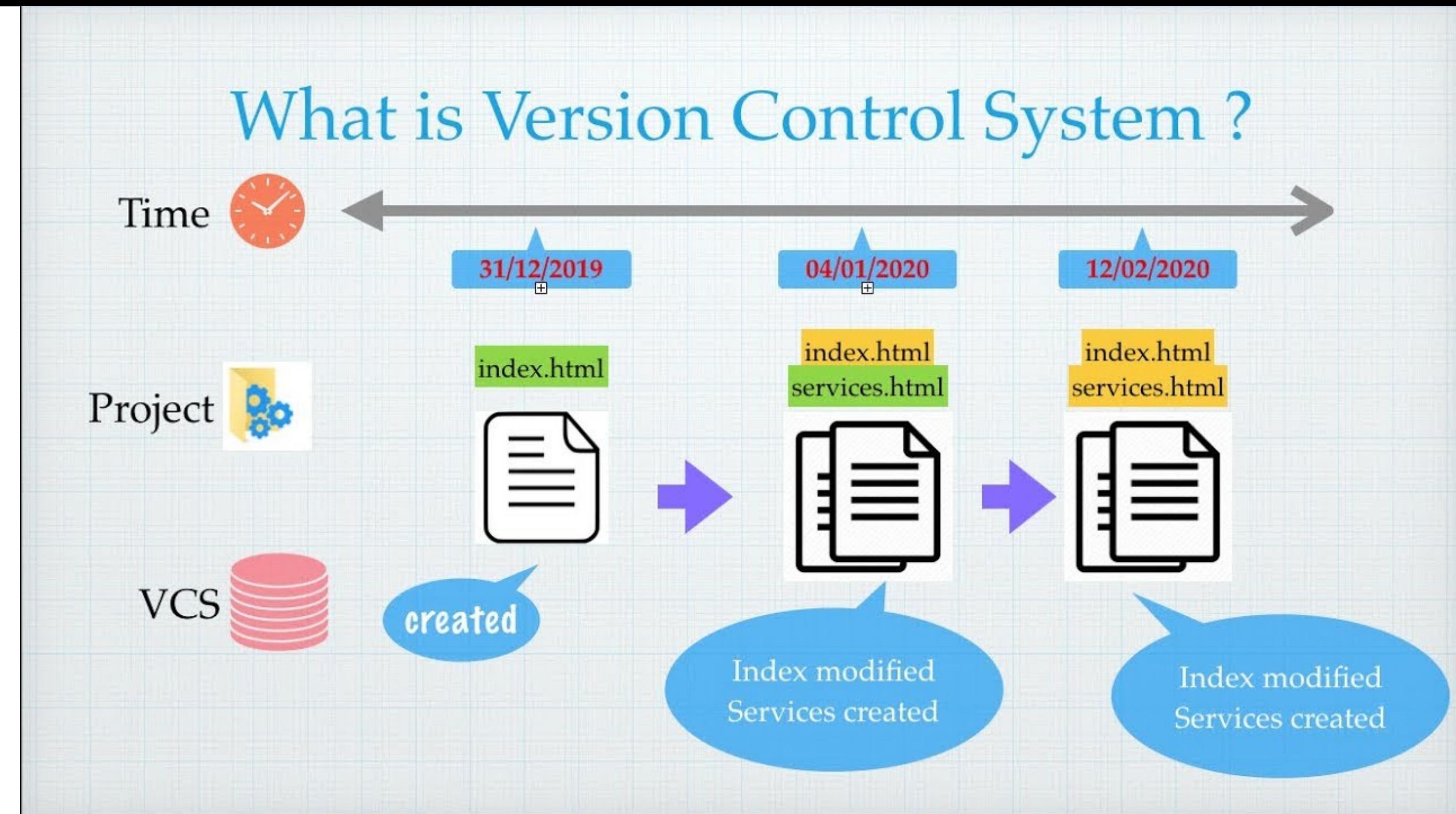
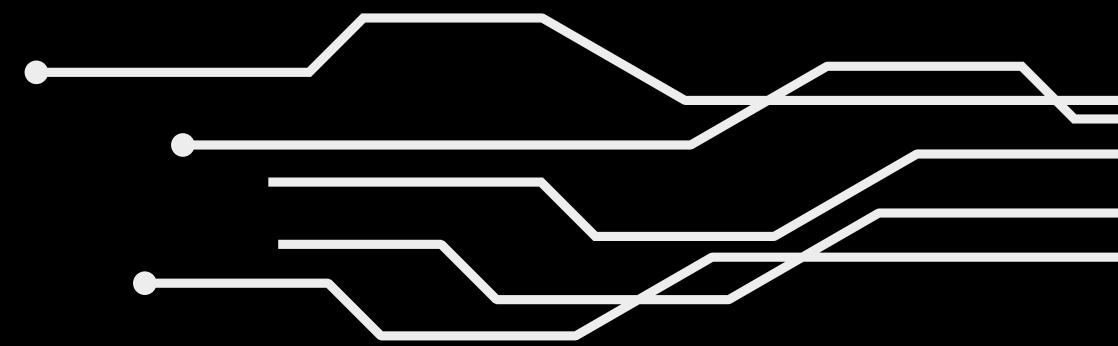


final-revisi  
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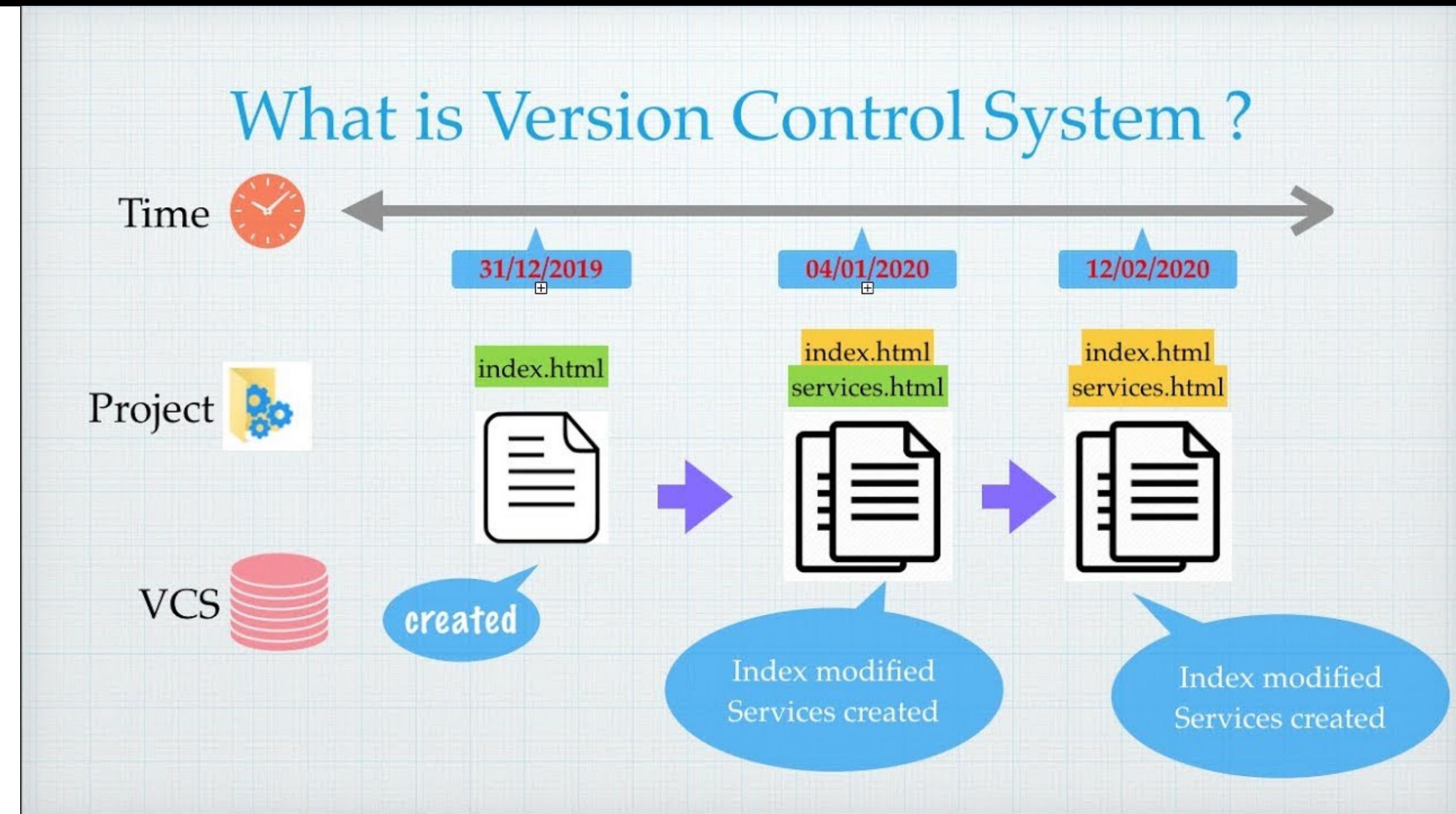
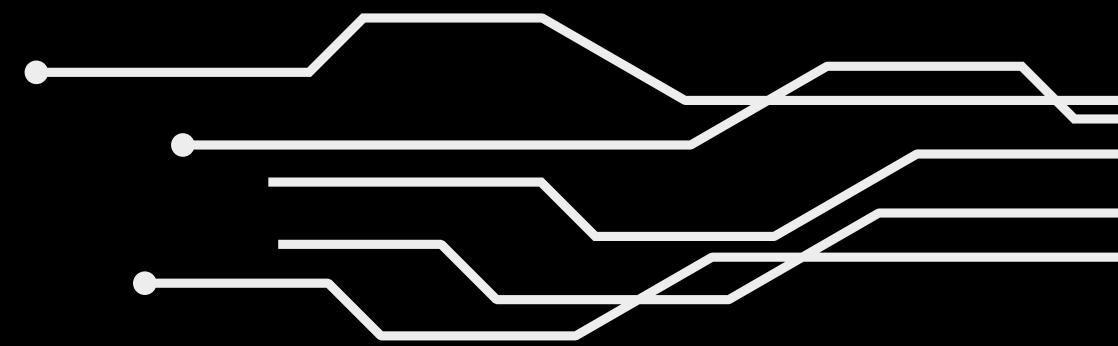
# Ilustrasi VCS



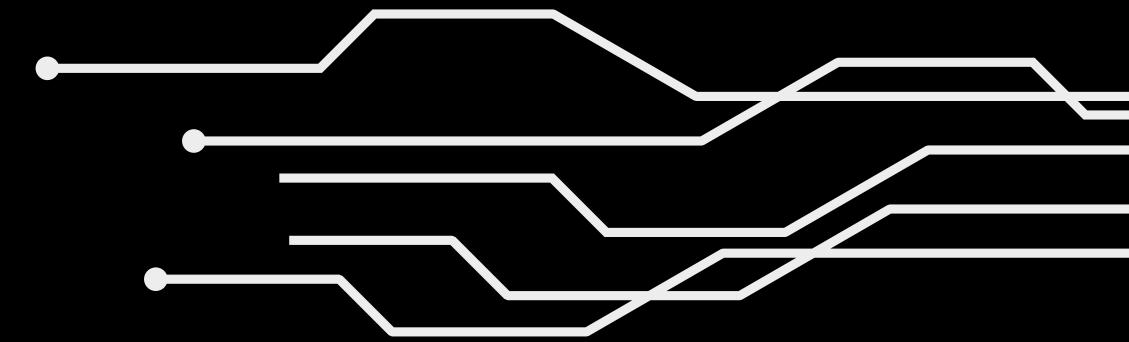
# Mengenal VCS



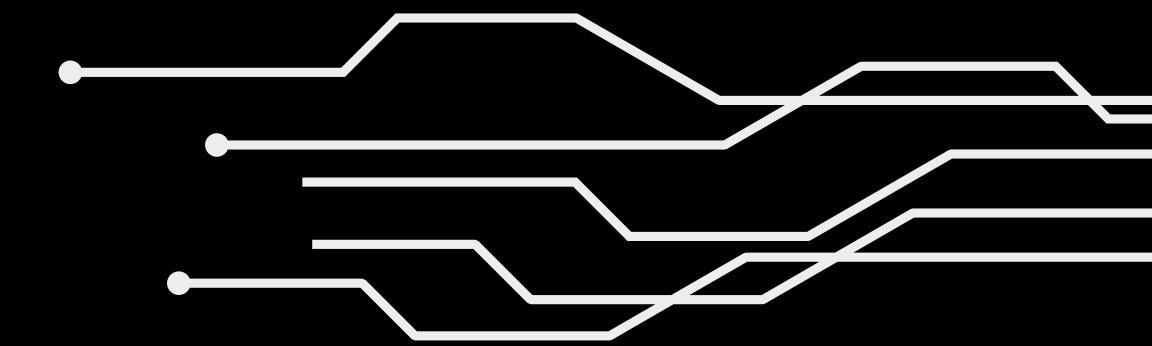
# Mengenal VCS



# Kenapa Pakai GIT?



# Fungsi Git

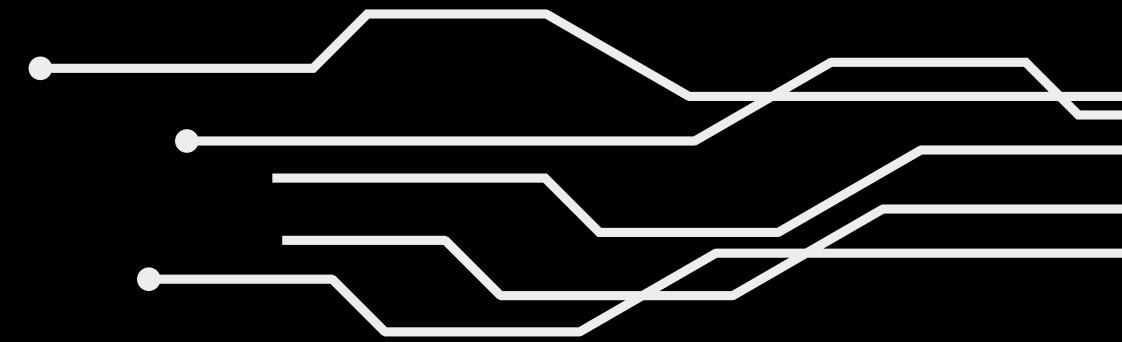


- Bisa menyimpan seluruh versi source code;
- Bisa paham cara kolaborasi dalam proyek;
- Bisa ikut berkontribusi ke proyek open-source;
- Lebih aman digunakan untuk kolaborasi, karena kita bisa tahu apa yang diubah dan siapa yang mengubahnya.

# Apa itu Github?

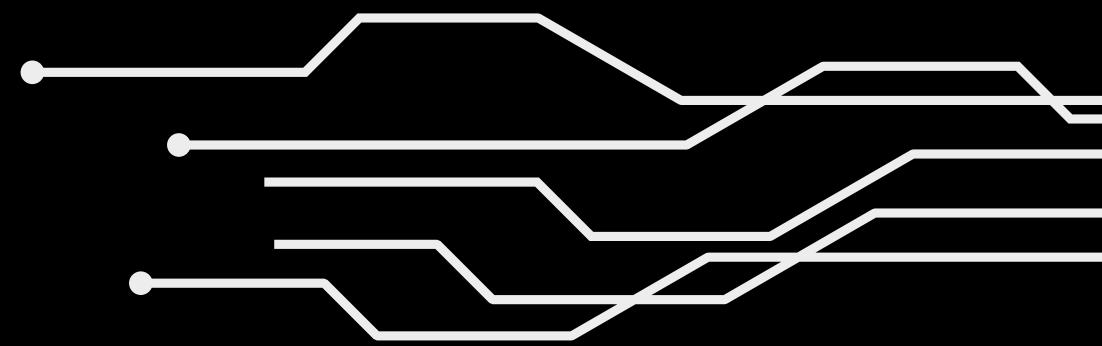


# Mengenal Github



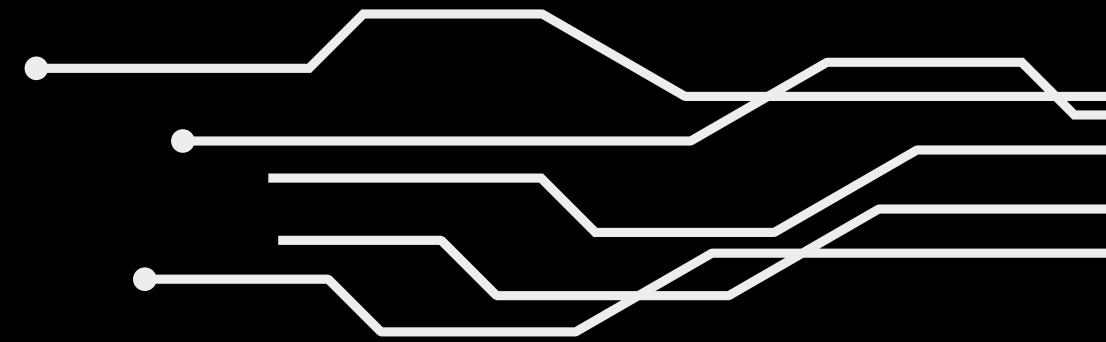
- GitHub adalah platform hosting source code dan kolaborasi pengembangan software berbasis git.
- Github memiliki GUI (graphic user interface) yang mudah dipahami oleh pengguna dibandingkan git/gitbash.

# Istilah Penting Github



Istilah	Penjelasan
Repository	Direktori atau folder yang berisi file dan riwayat perubahan kode project Anda.
Commit	Rekaman riwayat perubahan pada file Anda, meliputi siapa, apa, dan kapan perubahan terjadi.
Clone	Salinan repository di komputer Anda untuk bisa diedit secara offline di perangkat Anda.
Fork	Menyalin repository orang lain ke akun GitHub Anda. Biasanya digunakan untuk bereksperimen pada suatu project yang Anda anggap menarik.

# Istilah Penting Github



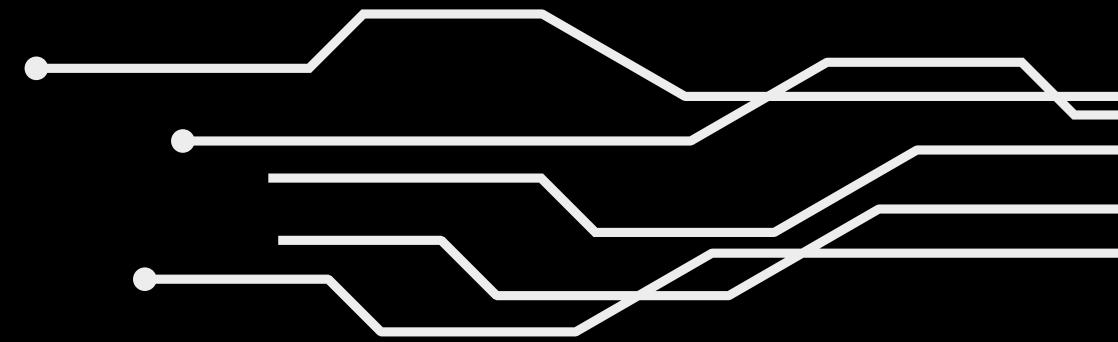
<b>Remote</b>	Inilah versi repository yang disimpan di server GitHub. Anda bisa melakukan sinkronisasi dengan versi clone sehingga perubahan offline tetap tercatat.
<b>Branch</b>	Cabang dari repository utama Anda. Di branch, kode yang Anda utak-atik tak akan berefek ke repository utama. Jadi, Anda bisa bebas bereksperimen atau memperbaiki bug di sini.
<b>Merge</b>	Menggabungkan kode yang sudah diubah pada suatu branch ke repository lainnya. Jadi, setelah Anda bereksperimen dengan kode di branch, Anda bisa langsung memasukkannya pada repository utama dengan merge.
<b>Pull request</b>	Mengusulkan suatu perubahan pada repository ke pemilik/pemimpin project. Lalu, ia berhak menerima atau menolak usulan tersebut.
<b>Issue</b>	Saran, pertanyaan, atau permintaan yang berhubungan dengan repository. Bisa dibuat oleh anggota tim Anda ataupun semua orang (untuk public repository).

# Apa itu Git Branch Workflow?

Git: List Remote Branch

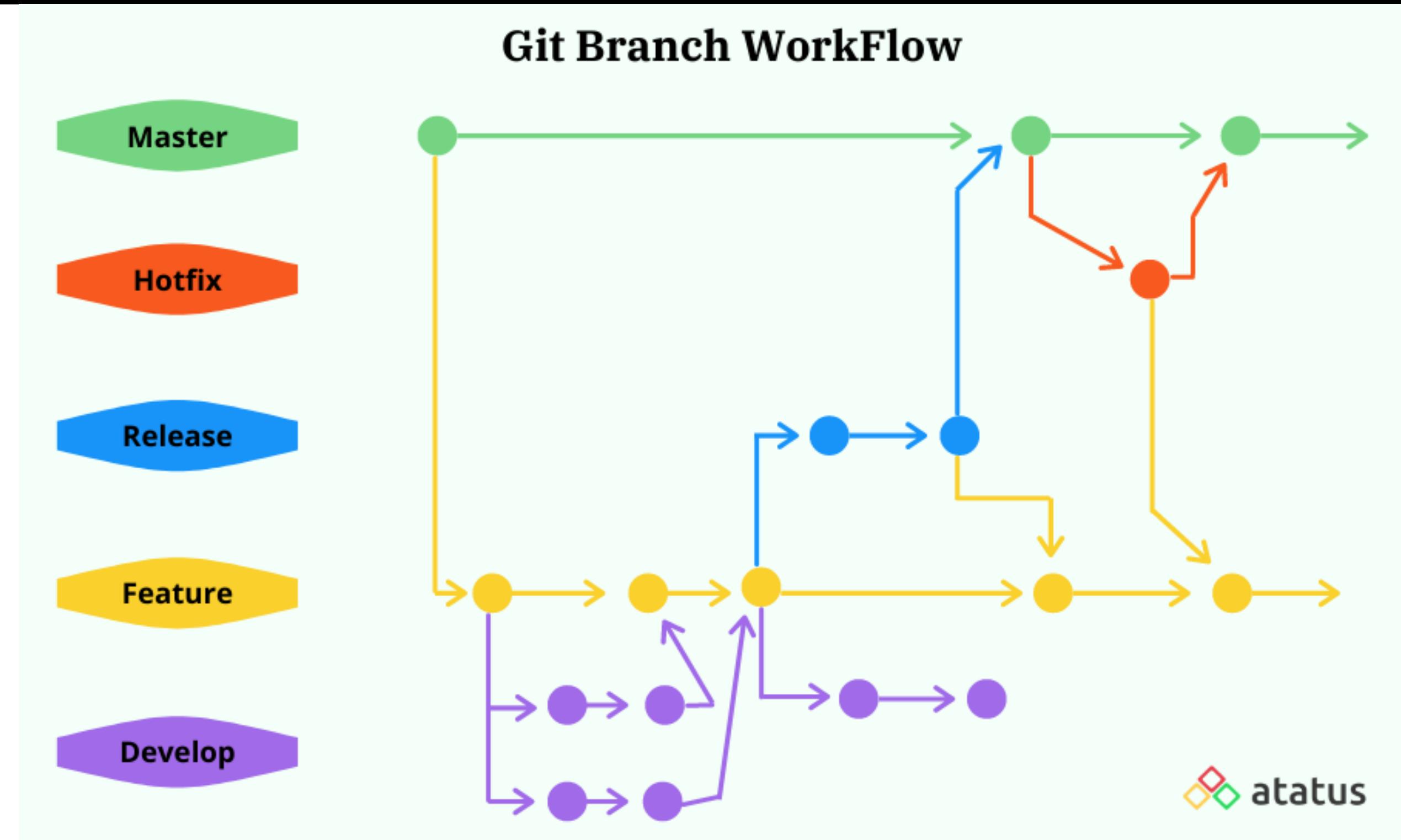
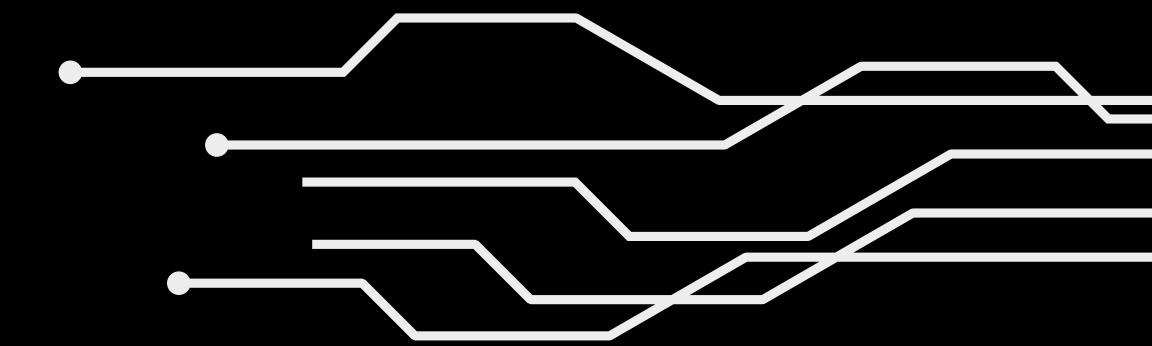


# Git Branch Workflow

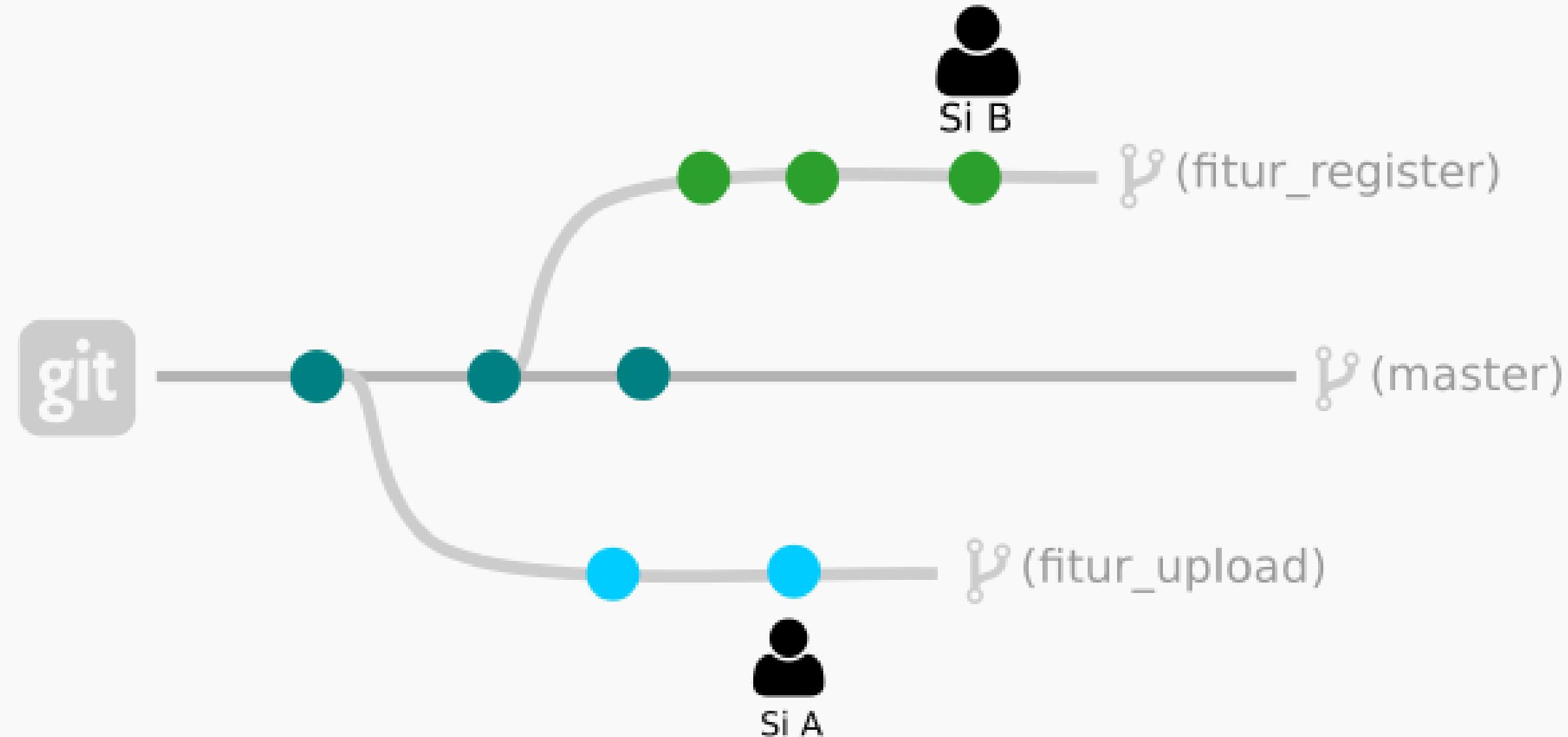
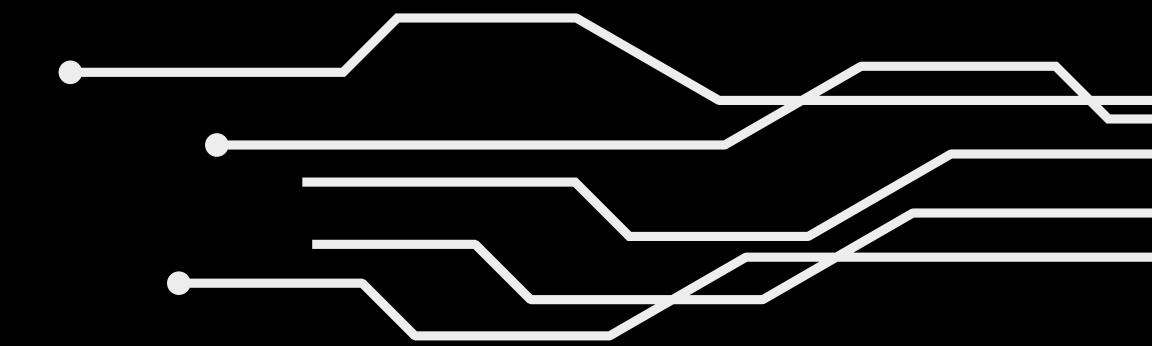


- Branch dalam Git merupakan fitur yang memungkinkan kamu untuk **membuat cabang terpisah dari riwayat kode utama**.
- biasanya disebut sebagai branch default seperti main atau master.

# Git Branch Workflow



# Git Branch Workflow



# Github Command

```
$ gh pr status
```

Current branch

There is no pull request associated

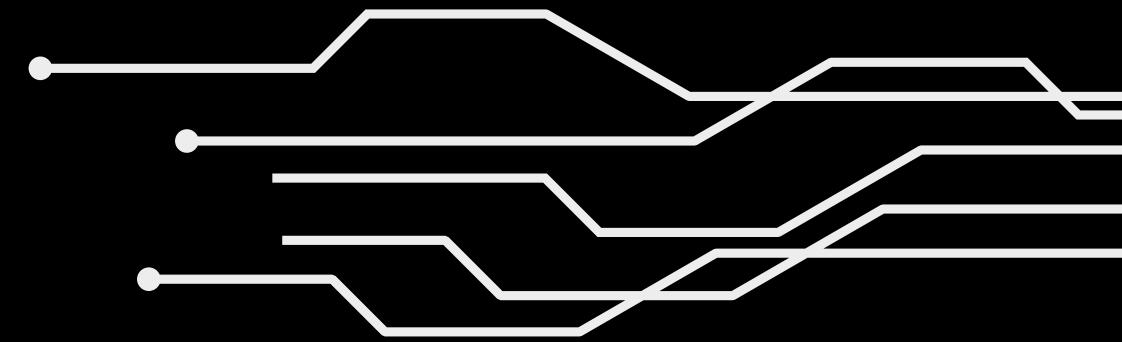
Created by you

#1011 Update readme [readme-fix]  
- Checks pending - review require

Requesting a code review from you

#1015 Improve error handling [b  
- Checks passing

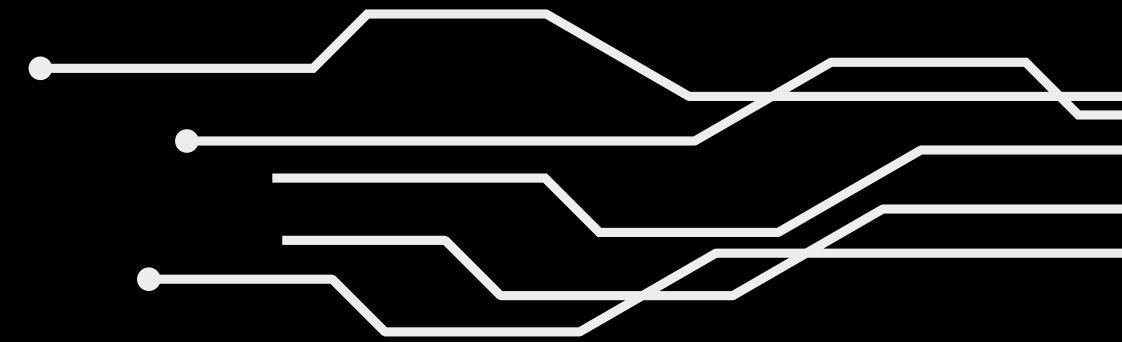
# Github Command



## Inisialisasi Repositori:

- **git init**: Menginisialisasi repositori lokal pada folder proyek Anda.
- Pengaturan Identitas:
- **git config --global user.name "Nama Anda"**: Mengatur nama pengguna yang akan terkait dengan commit.
- **git config --global user.email "email@example.com"**: Mengatur alamat email yang akan terkait dengan commit.

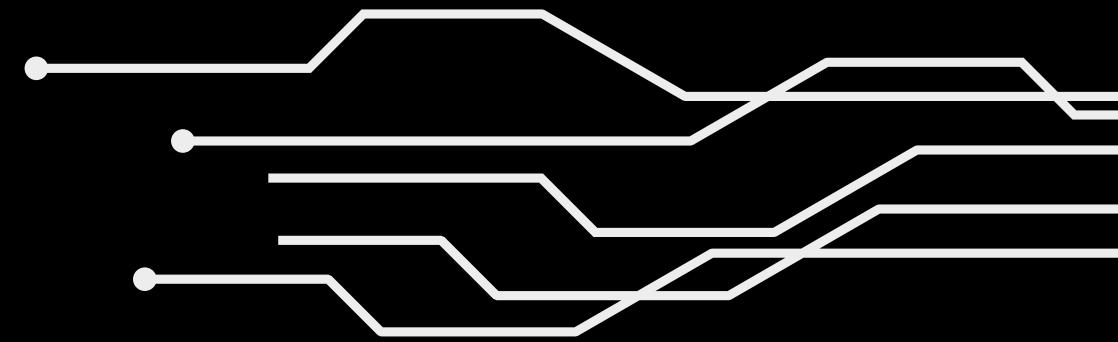
# Github Command



## Menambahkan dan Commit Perubahan:

- **git add <nama\_file>**: Menambahkan file ke staging area.
- **git add .**: Menambahkan semua perubahan yang belum di-track ke staging area.
- **git commit -m "Pesanan commit"**: Melakukan commit perubahan dengan pesan deskripsi.

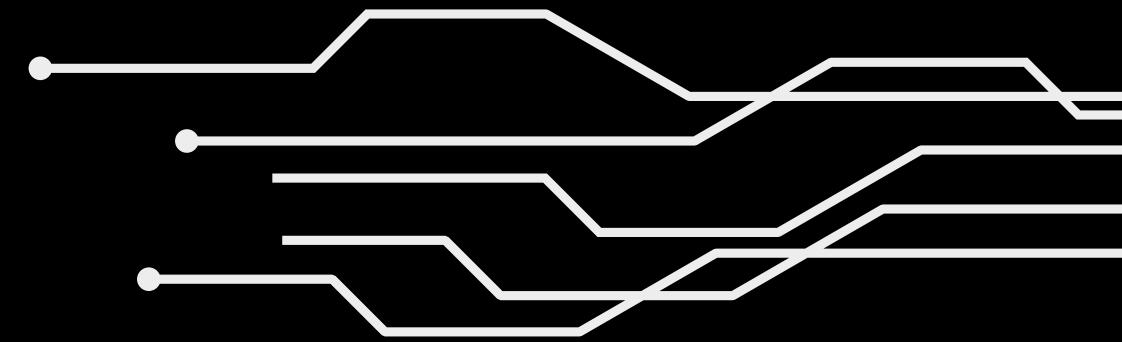
# Github Command



## Status dan Perbandingan:

- **git status**: Melihat status perubahan pada repositori.
- **git diff**: Menampilkan perbedaan antara pekerjaan yang belum di-staging dan staging area.

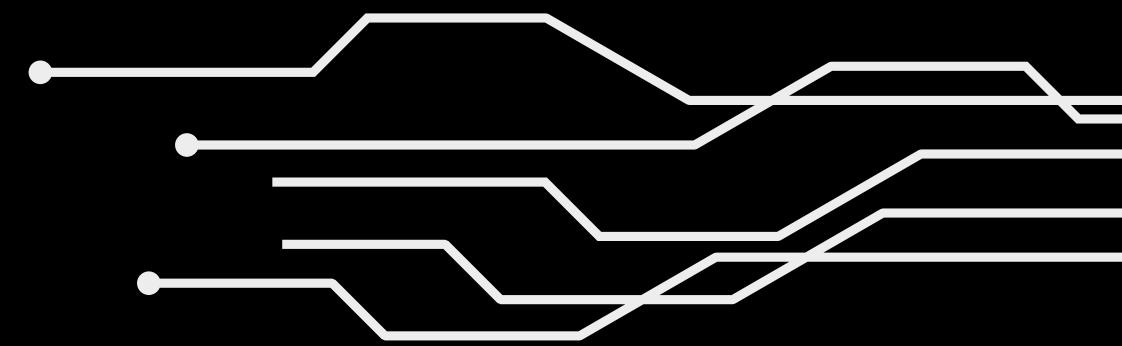
# Github Command



## Branching:

- **git branch**: Menampilkan daftar branch.
- **git branch <nama\_branch>**: Membuat branch baru.
- **git checkout <nama\_branch>**: Berpindah ke branch tertentu.
- **git merge <nama\_branch>**: Menggabungkan branch tertentu ke branch saat ini.

# Github Command



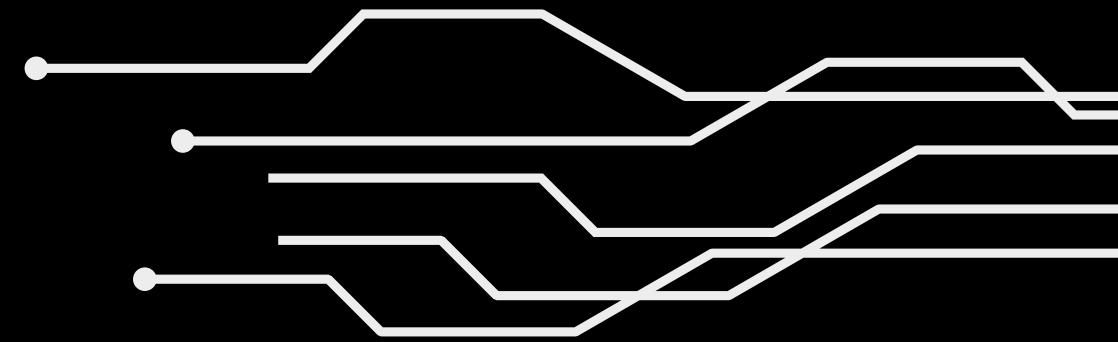
## Remote Repository:

- `git remote add origin <URL_Repository_GitHub>`: Menambahkan remote repository GitHub.
- `git remote -v`: Menampilkan URL remote repository.

## Mengambil dan Mengirim Perubahan ke Remote Repository:

- `git pull origin <nama_branch>`: Mengambil perubahan dari remote repository ke branch lokal.
- `git push origin <nama_branch>`: Mengirim perubahan dari branch lokal ke remote repository.

# Github Command



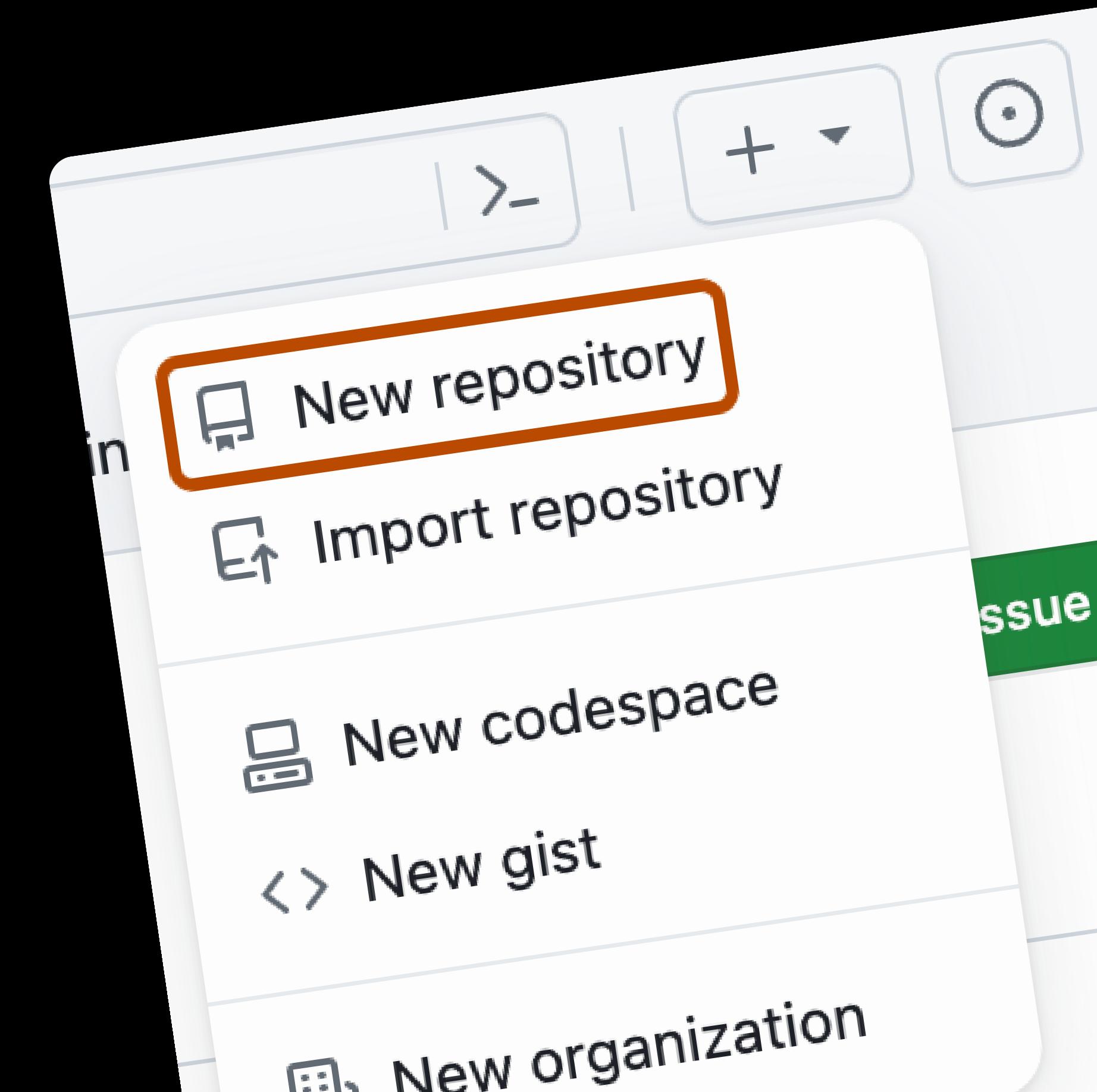
## Remote Repository:

- `git remote add origin <URL_Repository_GitHub>`: Menambahkan remote repository GitHub.
- `git remote -v`: Menampilkan URL remote repository.

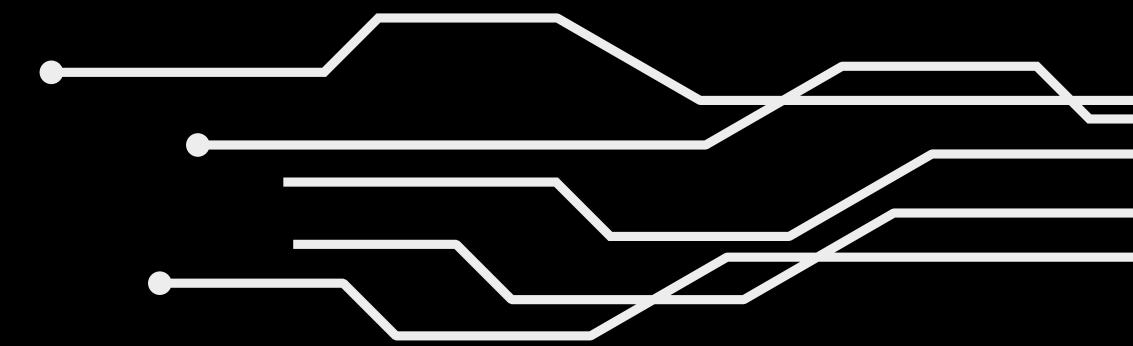
## Mengambil dan Mengirim Perubahan ke Remote Repository:

- `git pull origin <nama_branch>`: Mengambil perubahan dari remote repository ke branch lokal.
- `git push origin <nama_branch>`: Mengirim perubahan dari branch lokal ke remote repository.

# Push Project

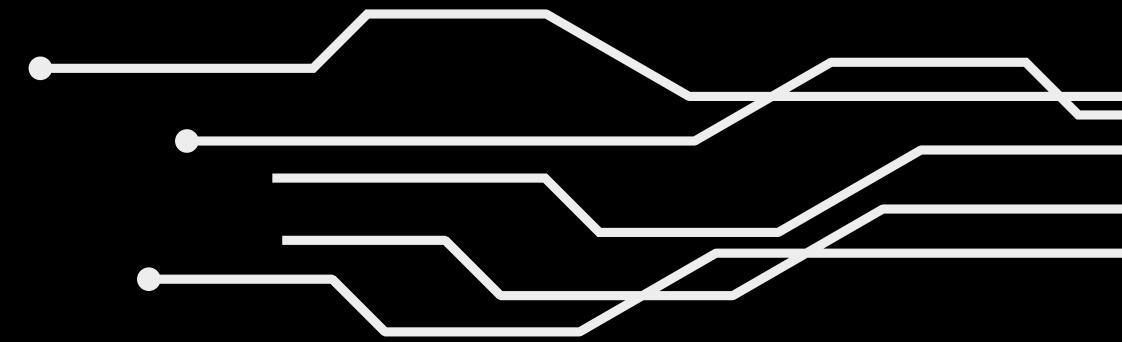


# Create Account



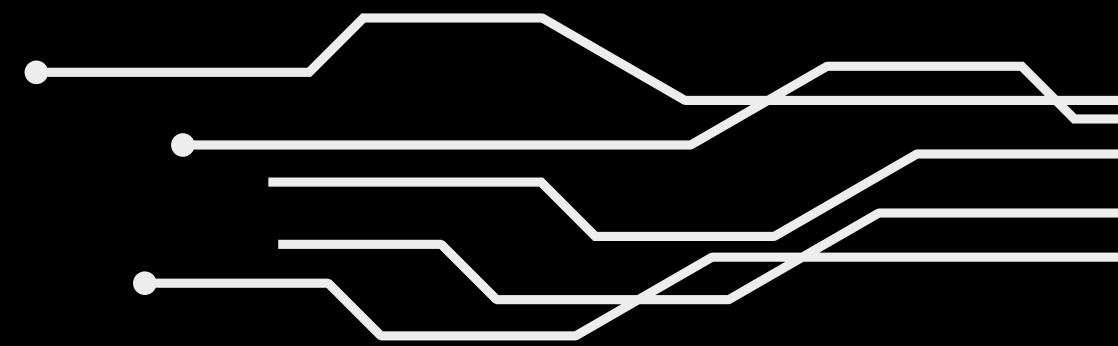
- Buat akun terlebih dahulu:
- <https://github.com/>
- Pilih **Sign Up**
- Buat username dan masukkan email dan password baru.
- Lakukan verifikasi email

# Config Identitas Git



- Buka git bash teman2.
- masukkan:
- **git config --global user.name "Nama Anda"**
- **git config --global user.email "email@example.com"**
- cek dengan: **git config --list** (untuk cek apakah sudah ada konfigurasi email atau belum)

# Config Identitas Git



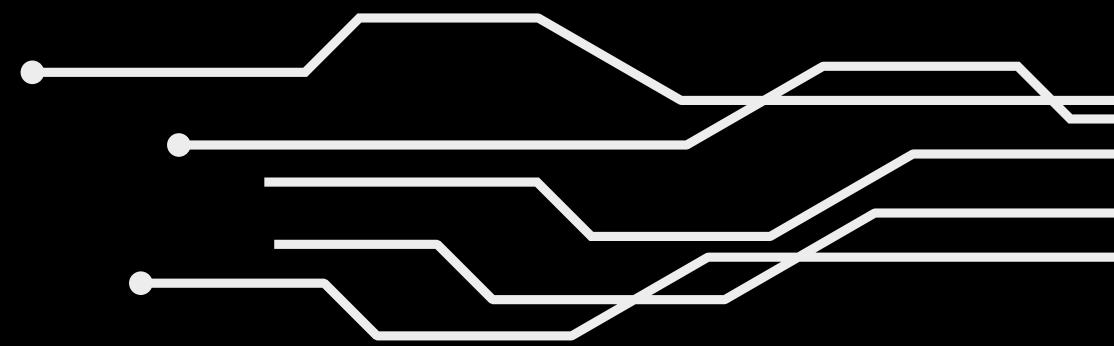
- Ketikkan didalam git bash seperti ini:

```
LENOVO@LAPTOP-CN07SMJS MINGW64 ~
$ git config --global user.name "Dimaspermana293"

LENOVO@LAPTOP-CN07SMJS MINGW64 ~
$ git config --global user.name "dimaspermana382@gmail.com"

LENOVO@LAPTOP-CN07SMJS MINGW64 ~
$
```

# Config Identitas Git

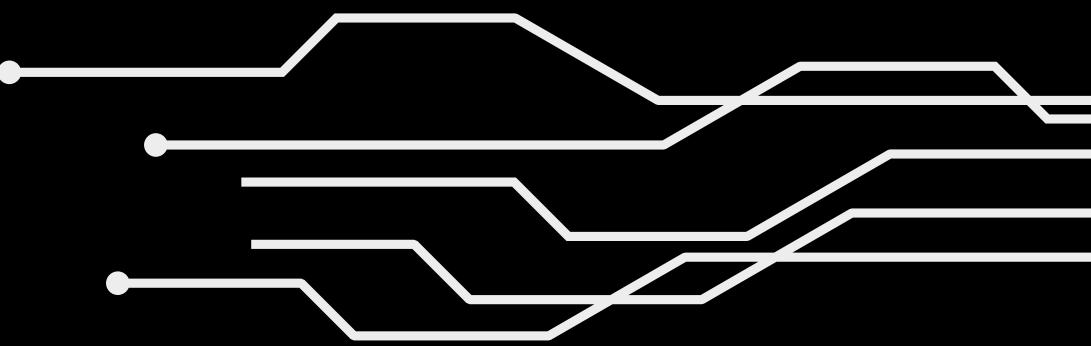


- Ketikan **git config --list**
- Lalu enter dan tekan keyboard arah bawah ↓

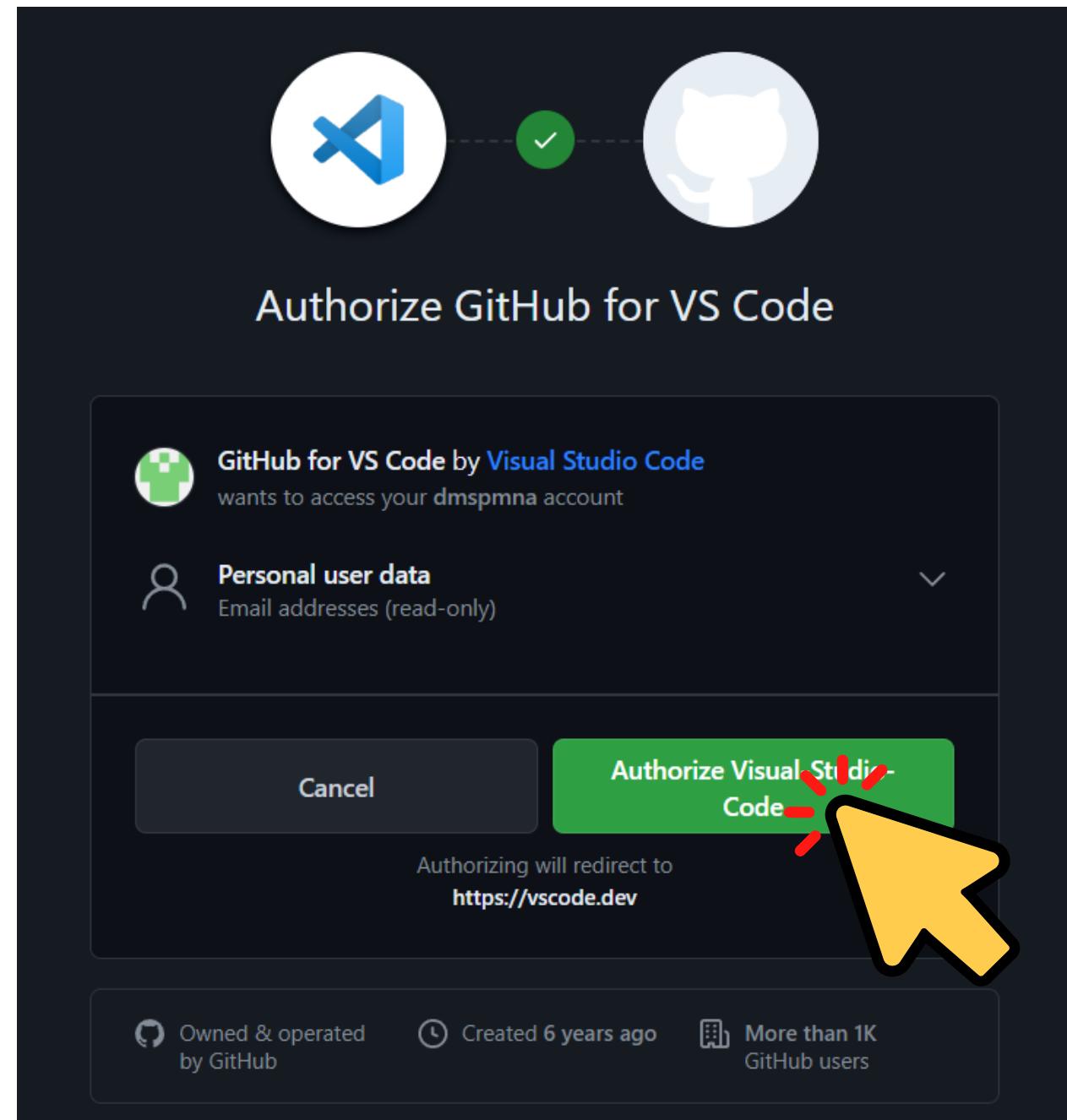
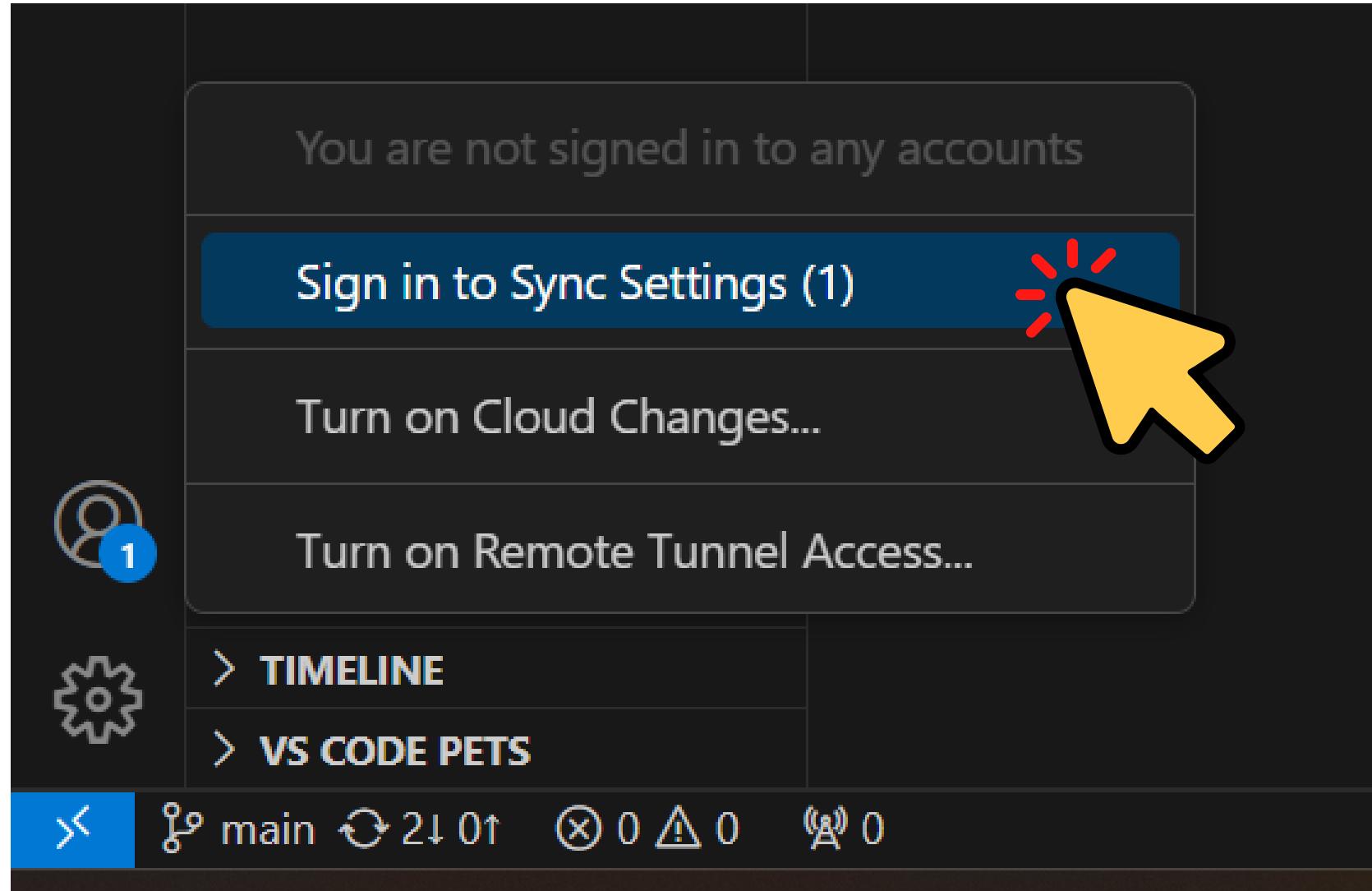
```
MINGW64:/c/Users/LENOVO
http.sslcainfo=C:/Program Files/Git/mingw64/etc/ssl/certs/ca-
bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.editor="C:\Users\LENOVO\AppData\Local\Programs\Microsoft
  VS Code\bin\code" --wait
credential.githubauthmodes=browser
user.name=dimaspermana382@gmail.com
user.email=dimaspermana293
~
(END)
```

- Jika sudah muncul username dan email maka berhasil konfigurasi.

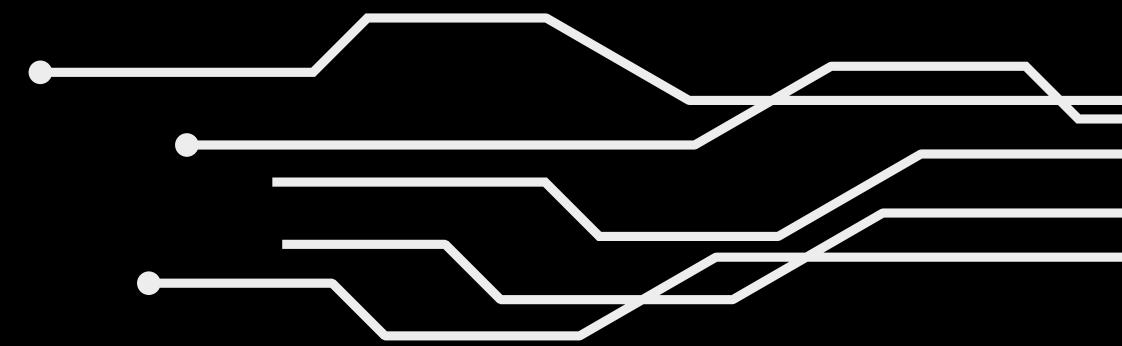
# Login Github VS Code



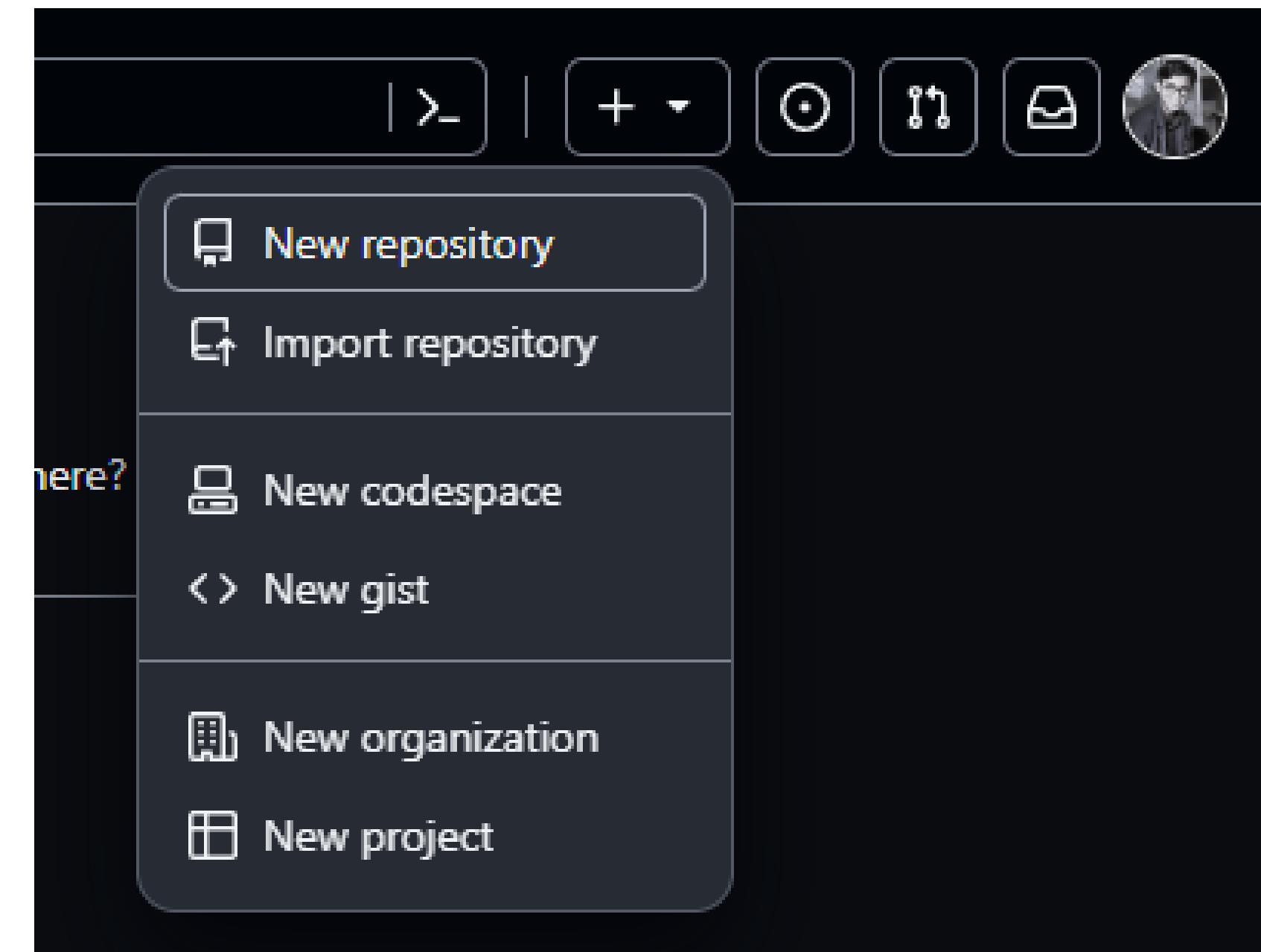
- Sign In akun github di Vs Code.
- Klik logo profile dipojok kiri bawah.



# Buat Repository Baru



- Klik New Repository



# Buat Repository Baru

- Buat nama repository baru
- Stelah itu **create repository.**
- **PROJECT-AKHIR-ALPROV-**  
**5200411923**

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

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

Owner \* Repository name \*

 Dimaspermana293 / PROJECT-AKHIR-ALPROV-

 PROJECT-AKHIR-ALPROV-5200411923 is available.

Great repository names are short and memorable. Need inspiration? How about [curly-meme](#) ?

Description (optional)

 Public  
Anyone on the internet can see this repository. You choose who can commit.

 Private  
You choose who can see and commit to this repository.

Initialize this repository with:

Add a README file  
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None ▾  
Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

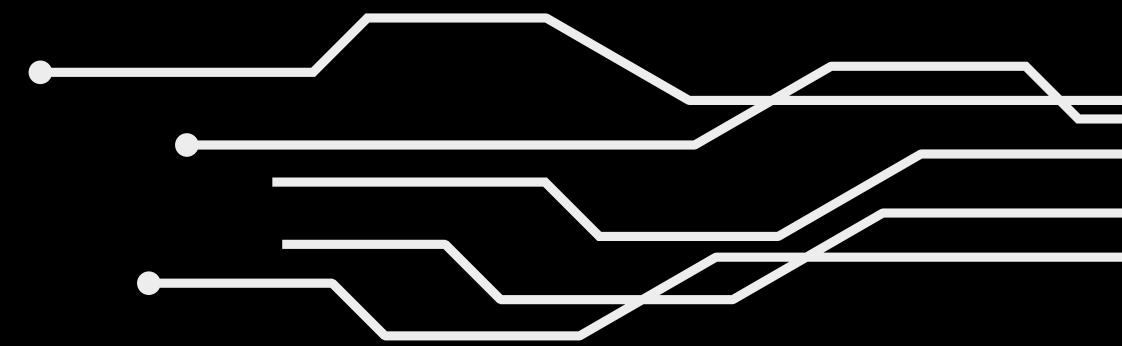
Choose a license

License: None ▾  
A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

 You are creating a public repository in your personal account.



# Buat Repository Baru



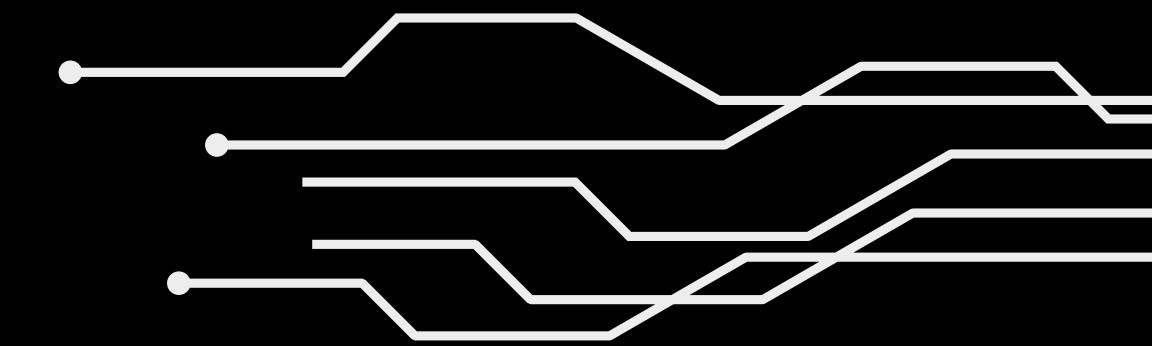
- Jika berhasil maka seperti ini

The screenshot shows a GitHub repository page with the following details:

- Owner:** Dimaspermana293
- Name:** PROJECT-AKHIR-ALPROV-5200411293
- Status:** Public
- Actions:** 1 unwatched, 0 forks, 0 stars
- Features:** Set up GitHub Copilot, Add collaborators to this repository
- Quick setup:** Set up in Desktop, HTTPS, SSH, URL: https://github.com/Dimaspermana293/PROJECT-AKHIR-ALPROV-5200411293.git
- Command-line instructions:**

```
echo "# PROJECT-AKHIR-ALPROV-5200411293" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/Dimaspermana293/PROJECT-AKHIR-ALPROV-5200411293.git
git push -u origin main
```

# Inisialisasi Git Project

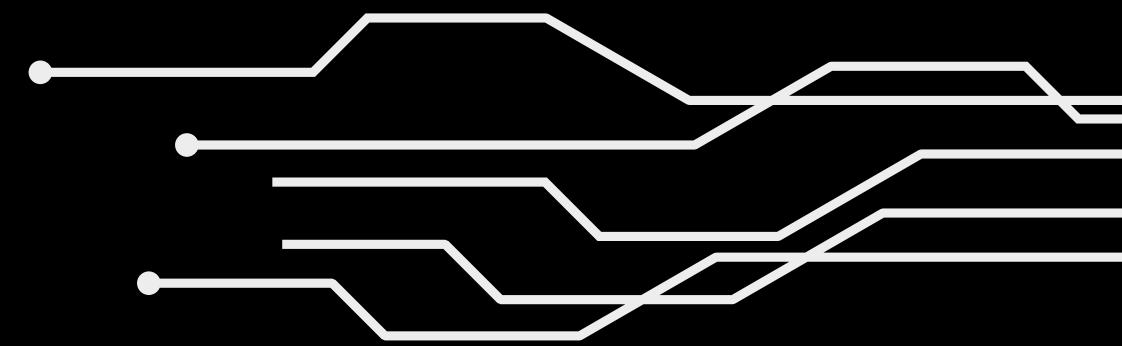


- Buka terminal vs code, pastikan direktorianya sesuai folder project kalian.
- Ketik **git init**
  - Untuk membuat folder menjadi format git

The screenshot shows the VS Code interface with a terminal window open. The terminal tab is selected at the bottom. A green arrow points from the text 'Jika berhasil' to the terminal window. Inside the terminal, the command 'git init' is typed and its output is visible: 'Initialized empty Git repository in D:/ASDOS-2023/ALPRO-PRAKTIK-V-JUMAT/PROJECT-AKHIR-ALPROV-5200411923/.git/'. The terminal window has a yellow border around the command line.

```
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git init
Initialized empty Git repository in D:/ASDOS-2023/ALPRO-PRAKTIK-V-JUMAT/PROJECT-AKHIR-ALPROV-5200411923/.git/
```

# Git Add



- Untuk menambahkan file kedalam staged changes (Index Add).
- Ketik **git add -A**

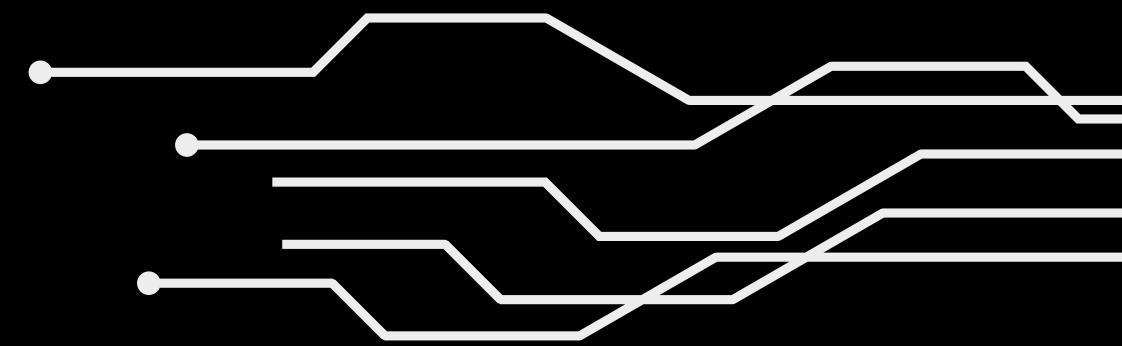
The screenshot shows the VS Code interface with the terminal tab active. The terminal window displays the following command history:

```
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git init
Initialized empty Git repository in D:/ASDOS-2023/ALPRO-PRAKTIK-V-JUMAT/PROJECT-AKHIR-ALPROV-5200411923/.git/
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git add -A
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923>
```

A green arrow points from the text "Jika berhasil" to the first command in the terminal. A red box highlights the command "git add -A".

**Jika berhasil**

# Git Commit

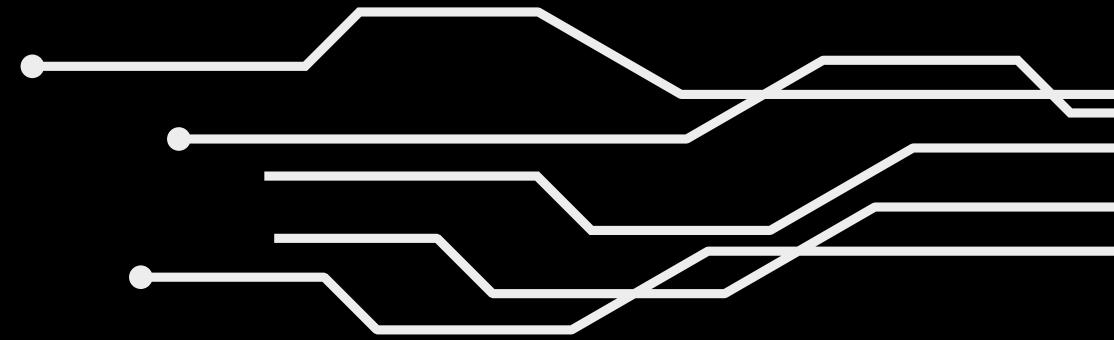


- Untuk commit file yang sudah siap push,
- Ketik **git commit -m "first commit"**
- Pesan *first commit* bisa bebas misal “Membuat file index.html” dll.

```
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git commit -m "first commit"
[master (root-commit) 5703cae] first commit
 4 files changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 1-create.py
  create mode 100644 2.select-all.py
  create mode 100644 3-select-where.py
  create mode 100644 File Jawaban - 5200411293.pdf
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923>
```

← Jika berhasil

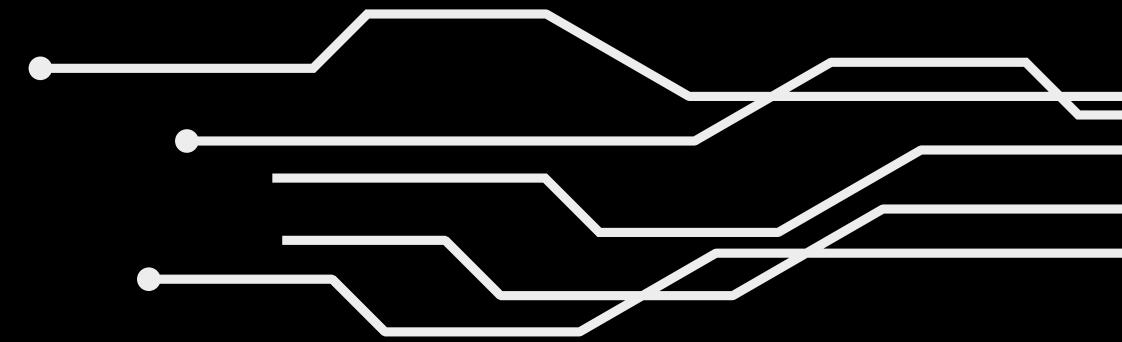
# Git Remote (Origin)



- Copy link git repository kalian masing2.

The screenshot shows a GitHub repository page for 'PROJECT-AKHIR-ALPROV-5200411293'. The page includes navigation links like Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the header, there are sections for GitHub Copilot and adding collaborators. A prominent 'Quick setup' section at the bottom contains a red box highlighting the clone URL: <https://github.com/Dimaspermana293/PROJECT-AKHIR-ALPROV-5200411293.git>. This URL is intended for cloning the repository to a local machine.

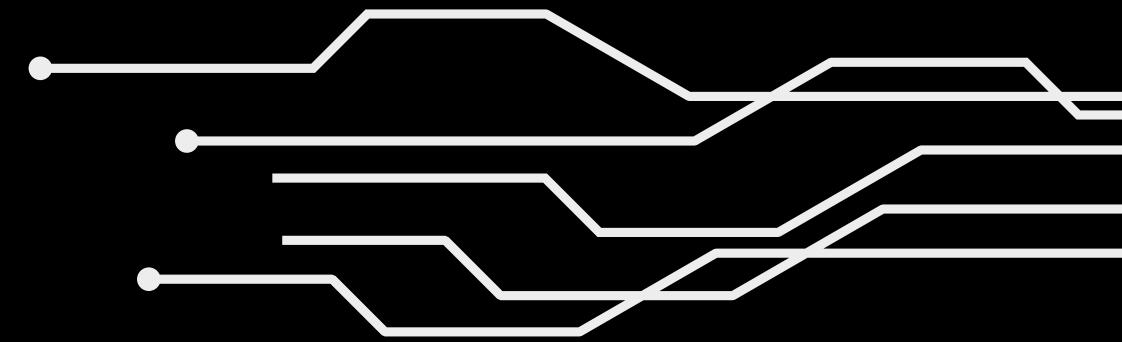
# Git Remote (Origin)



- Untuk menghubungkan project vs code dg repository github yang baru saja dibuat, gunakan remote origin.
- Ketik **git remote origin <link remote>**
- **git remote add origin https://github.com/Dimaspermana293/PROJECT-AKHIR-ALPROV-5200411293.git**

```
● PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git init
  Initialized empty Git repository in D:/ASDOS-2023/ALPRO-PRAKTIK-V-JUMAT/PROJECT-AKHIR-ALPROV-5200411923/.git/
● PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git add -A
● PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git commit -m "first commit"
[master (root-commit) 5703cae] first commit
  4 files changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 1-create.py
  create mode 100644 2.select-all.py
  create mode 100644 3-select-where.py
  create mode 100644 File Jawaban - 5200411293.pdf
● PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git branch -M main
● PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git remote add origin https://github.com/Dimas
permana293/PROJECT-AKHIR-ALPROV-5200411293.git
● PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923>
```

# Git Push (main)



- Untuk upload atau push project ke repo, gunakan git push
- Ketik **git push -u origin main**

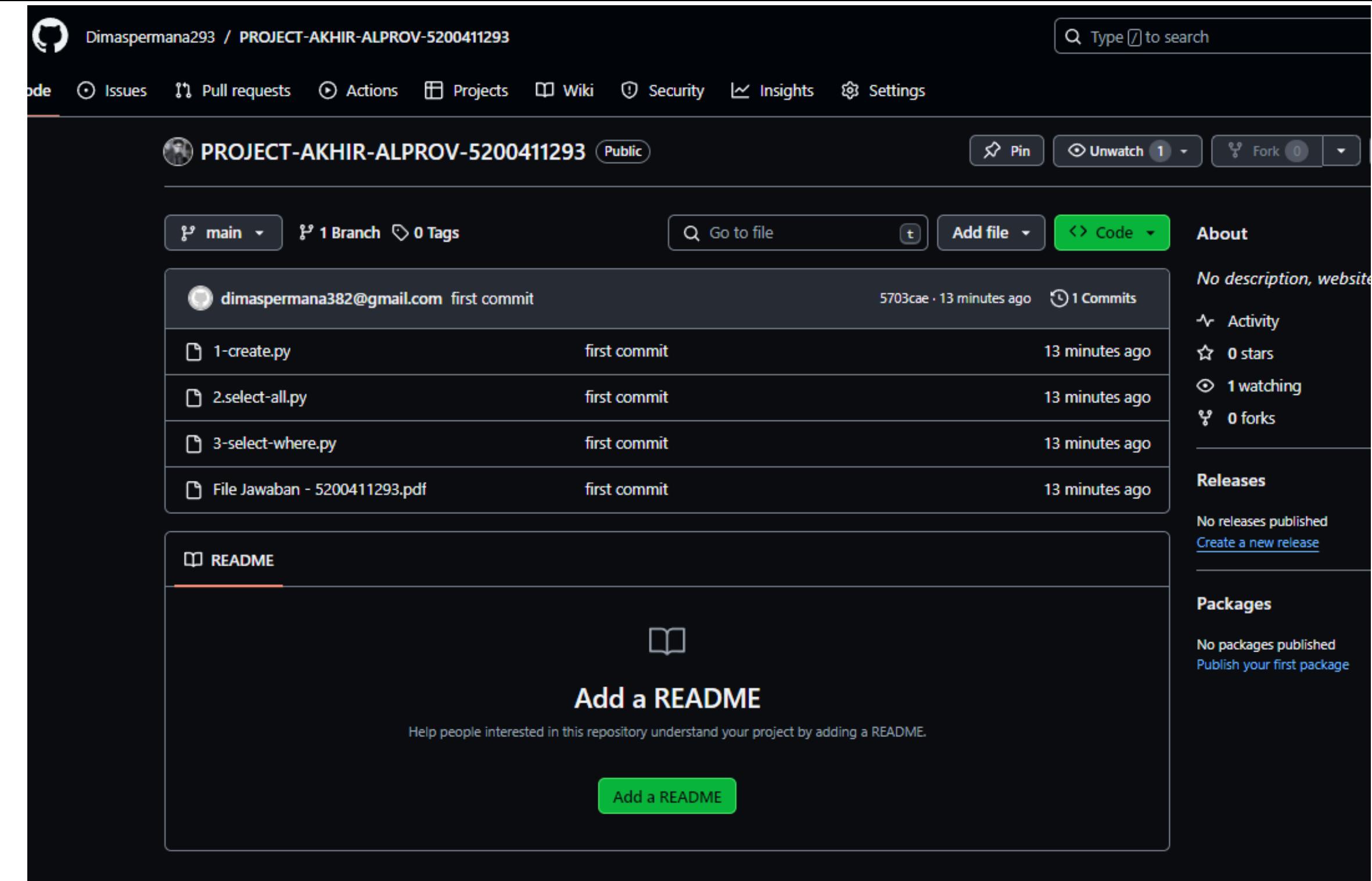
```
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git branch -M main
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git remote add origin https://github.com/Dimas
permana293/PROJECT-AKHIR-ALPROV-5200411293.git
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923> git push -u origin main
Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 228.94 KiB | 22.89 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Dimaspermana293/PROJECT-AKHIR-ALPROV-5200411293.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS D:\ASDOS-2023\ALPRO-PRAKTIK-V-JUMAT\PROJECT-AKHIR-ALPROV-5200411923>
```

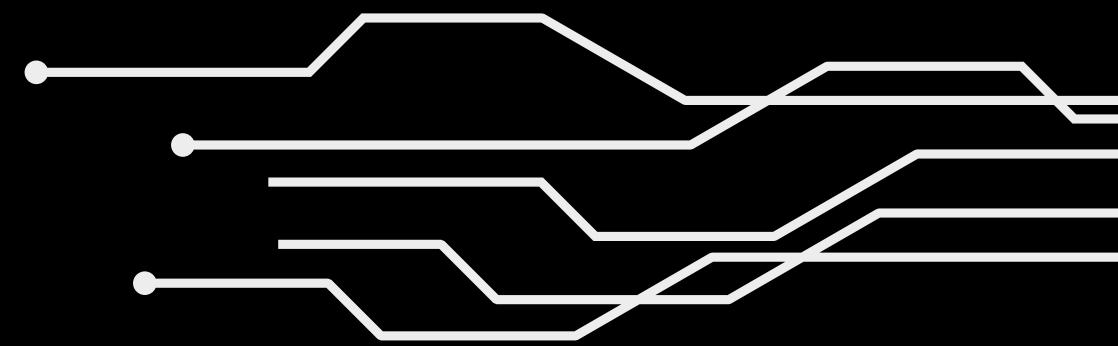
→ Berhasil Upload

# Cek Repo Github

- Silahkan cek repo github (refresh halaman browser).
- Jika berhasil maka repo akan otomatis ditambahkan file baru.



# Buat README.md



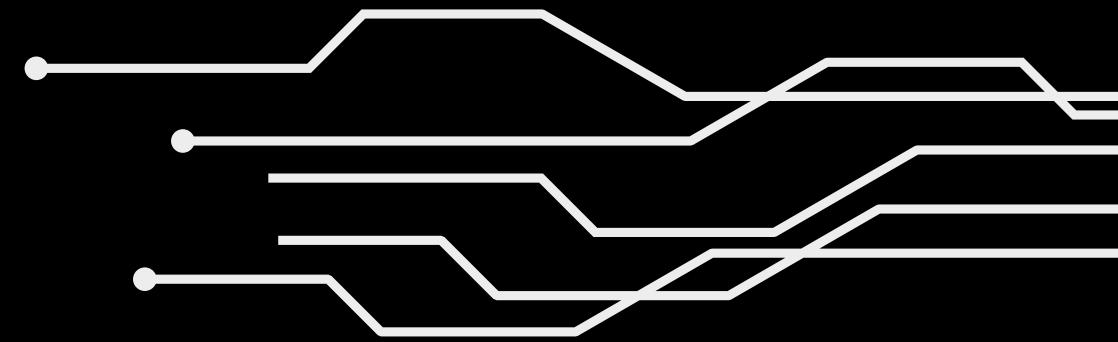
- File README.md digunakan sebagai profile dari repo kalian.
- Klik tombol **Add README**

The screenshot shows a GitHub repository interface. At the top, there are buttons for 'main' (branch), '1 Branch' (branch count), '0 Tags' (tag count), 'Go to file' (search bar), 'Add file' (button), and 'Code' (button). Below this is a commit history table:

dimaspermana382@gmail.com	first commit	5703cae · 13 minutes ago	1 Commits
1-create.py	first commit	13 minutes ago	
2.select-all.py	first commit	13 minutes ago	
3-select-where.py	first commit	13 minutes ago	
File Jawaban - 5200411293.pdf	first commit	13 minutes ago	

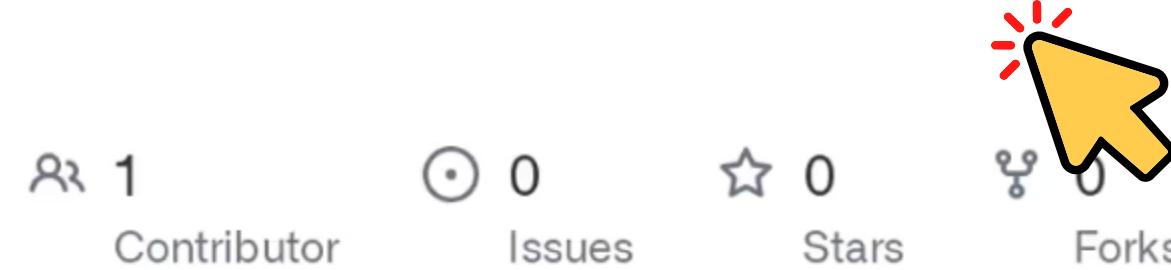
Below the commit history is a large card with the title 'README'. It features a 'README' icon, a 'book' icon, and a 'Create' icon. The text 'Add a README' is prominently displayed in red, with a yellow cursor arrow pointing directly at it. Below this, a subtitle reads 'Help people interested in this repository understand your project by adding a README.'

# Buat README.md



- Silahkan kunjungi github saya untuk copy file
- readme.md
- **Klik disini!**

Dimaspermana293/  
**latihan-github-baru-**...



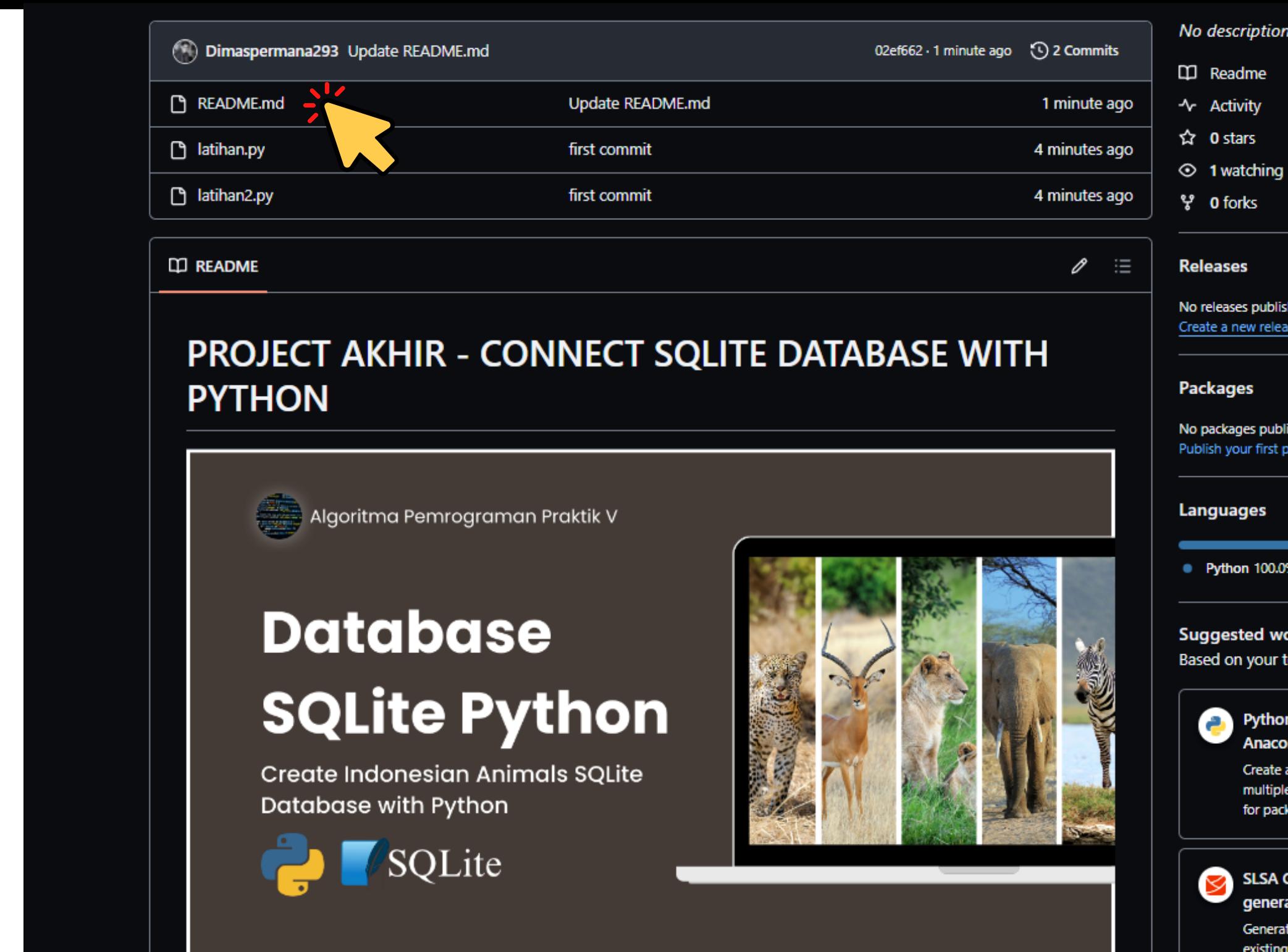
**Dimaspermana293/latihan-github-baru-banget**

Contribute to Dimaspermana293/latihan-github-baru-banget development by creating an account on GitHub.

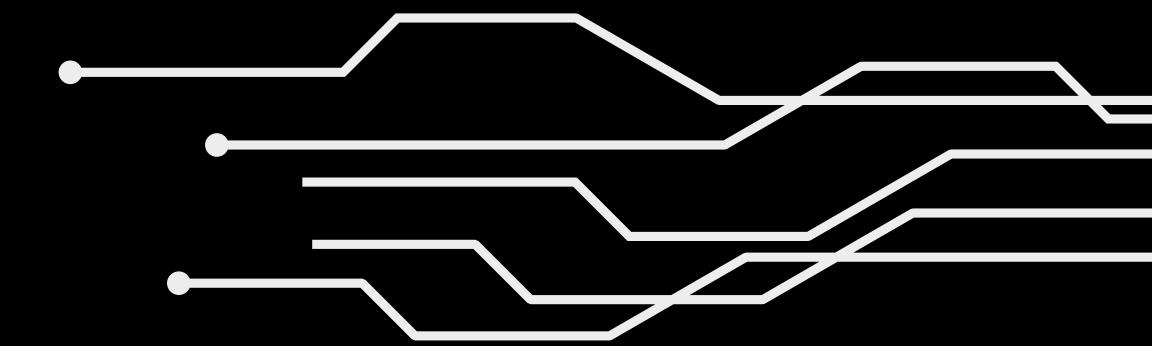


# Buat README.md

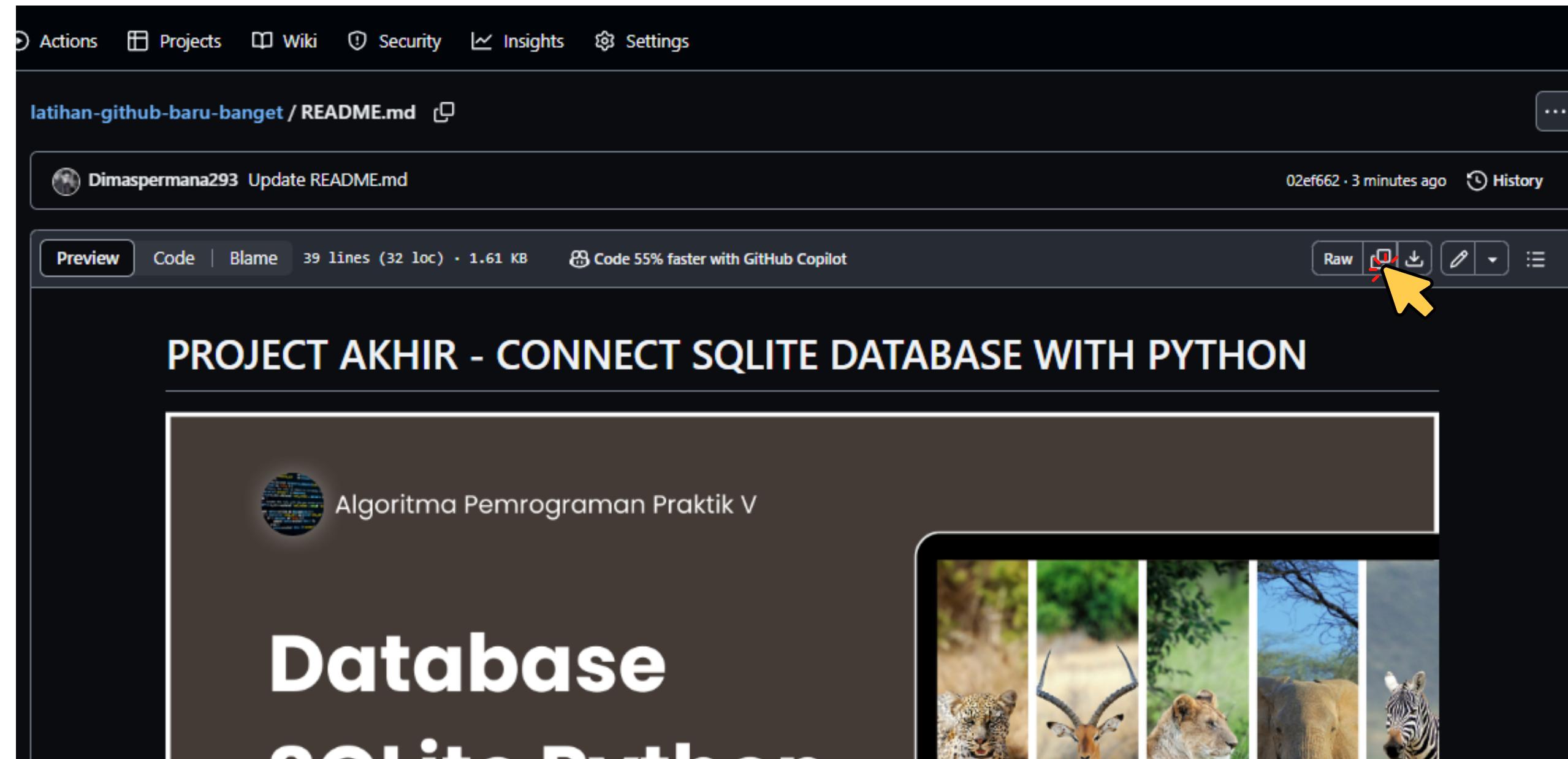
- Klik file README.md



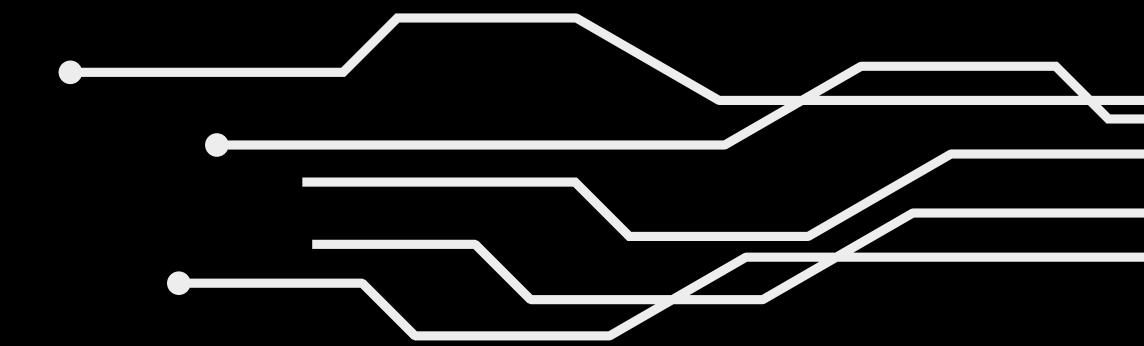
# Buat README.md



- Klik icon copy raw file



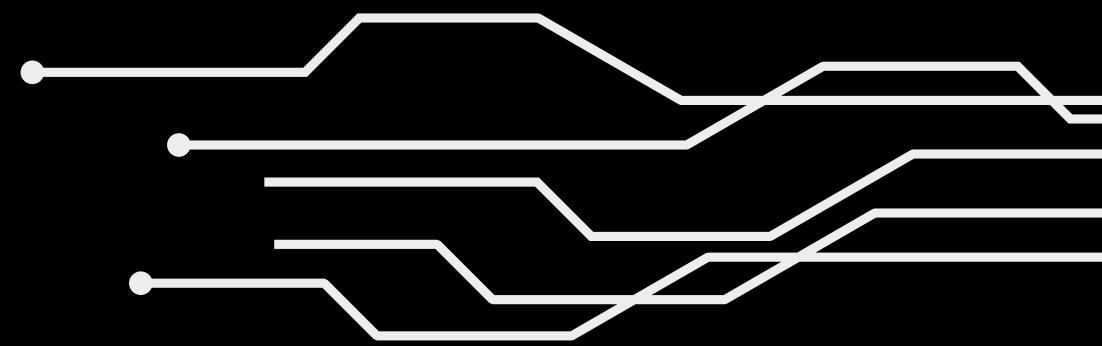
# Buat README.md



- Paste kedalam file readme.md project.
- Ganti Identitasnya!

```
1 # PROJECT AKHIR - CONNECT SQLITE DATABASE WITH PYTHON
2 
3
4 ## Identitas
5 - **Nama:** DIMAS PERMANA
6 - **NPM:** 5200411293
7 - **Kelas:** ALGORITMA PEMROGRAMAN PRAKTIK V
8
9 ## Spesifikasi Proyek
10 - **Bahasa:** Python
11 - **Database:** SQLite
12 - **Nama database:** database_fauna.db
13 - **Nama tabel:** FAUNA
14
15 ## Tools
16 - Visual Studio Code
17 - DB Browser
18
19 ## Query Project
20 Projek ini bertujuan untuk menghubungkan dan berinteraksi dengan database SQLite menggunakan Python. Berikut query yang akan diimplementasikan:
21
22 1. `CREATE`: Membuat tabel baru dalam database.
23 2. `INSERT INTO`: Menyisipkan data baru ke dalam tabel.
24 3. `SELECT ALL`: Mengambil semua data dari tabel.
```

# Sudah selesai...



**Selamat Kamu  
Berhasil** 

293 / PROJECT-AKHIR-ALPROV-5200411293

Pull requests Actions Projects Wiki Security Insights Settings

PROJECT-AKHIR-ALPROV-5200411293 Public

Pin Unwatch 1 Fork 0 Star 0

main 1 Branch 0 Tags Go to file Add file Code

Dimaspermana293 Create README.md 9348fa5 - now 2 Commits

1-create.py first commit 36 minutes ago

2.select-all.py first commit 36 minutes ago

3-select-where.py first commit 36 minutes ago

File Jawaban - 5200411293.pdf first commit 36 minutes ago

READMEmd Create README.md now

About No description, website, or topics provided.

Readme Activity 0 stars 1 watching 0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

README

PROJECT AKHIR - CONNECT SQLITE DATABASE WITH PYTHON

Algoritma Pemrograman Praktik V

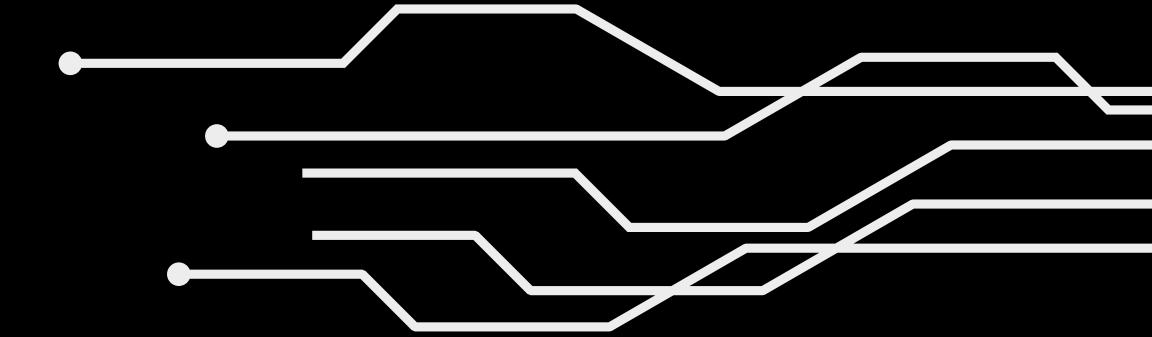
Database SQLite Python

Create Indonesian Animals SQLite Database with Python

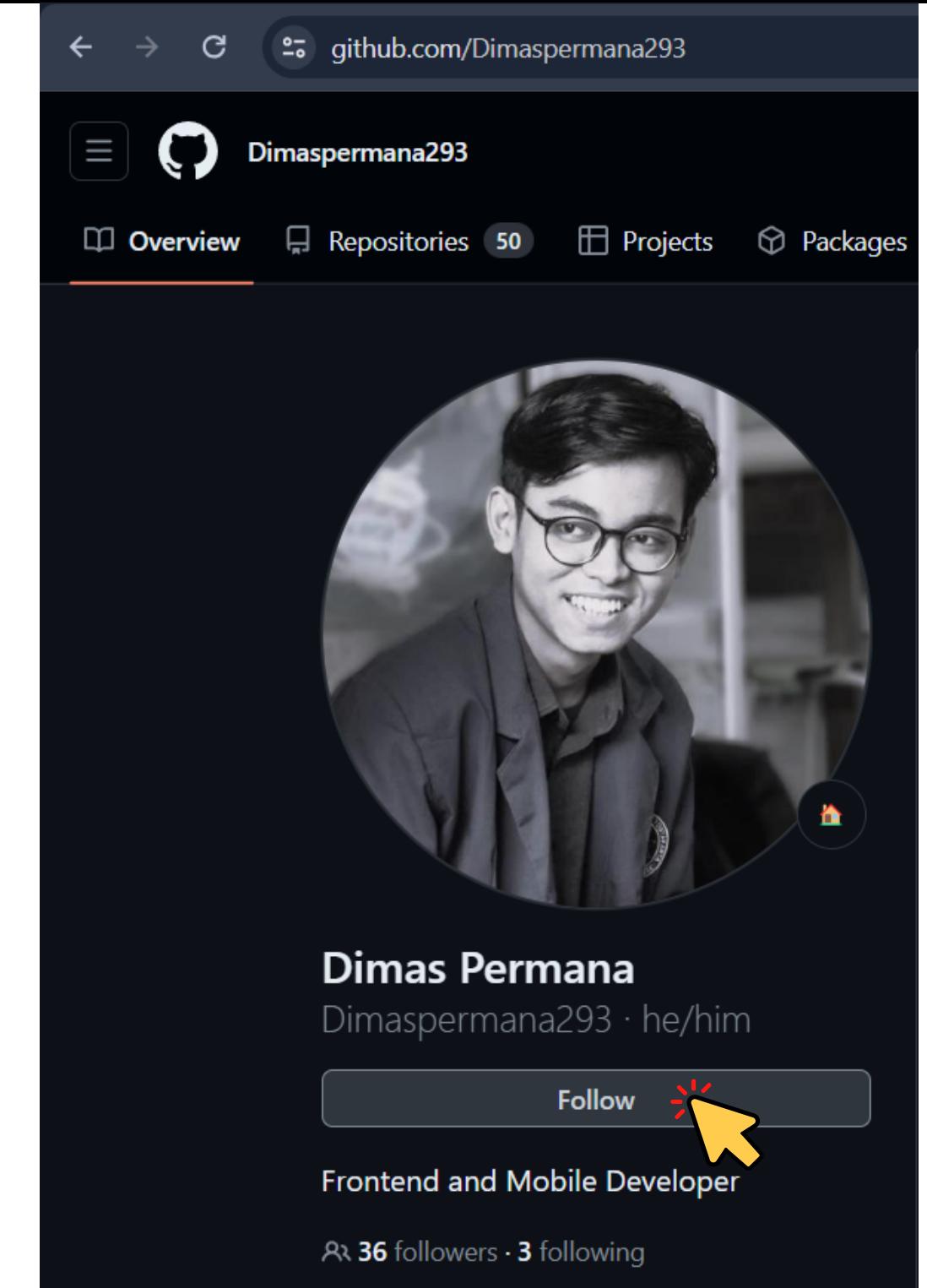
 



# Buat README.md



- Jangan lupa untuk langkah terakhir, temen-temen diminta follow github: Dimaspermana293.
- Agar projectnya bisa dikoreksi.
- Terima Kasih temen-temen 



The screenshot shows a GitHub profile page for the user 'Dimaspermana293'. The profile picture is a circular photo of a young man with glasses smiling. The bio section includes the name 'Dimas Permana', the GitHub handle 'Dimaspermana293 · he/him', and the title 'Frontend and Mobile Developer'. Below the bio, it shows '36 followers · 3 following'. A yellow cursor arrow points to the 'Follow' button, which has a red notification badge with the number '1'. The top navigation bar shows tabs for 'Overview', 'Repositories' (50), 'Projects', and 'Packages'.

# Terima Kasih

