

# Latihan Git

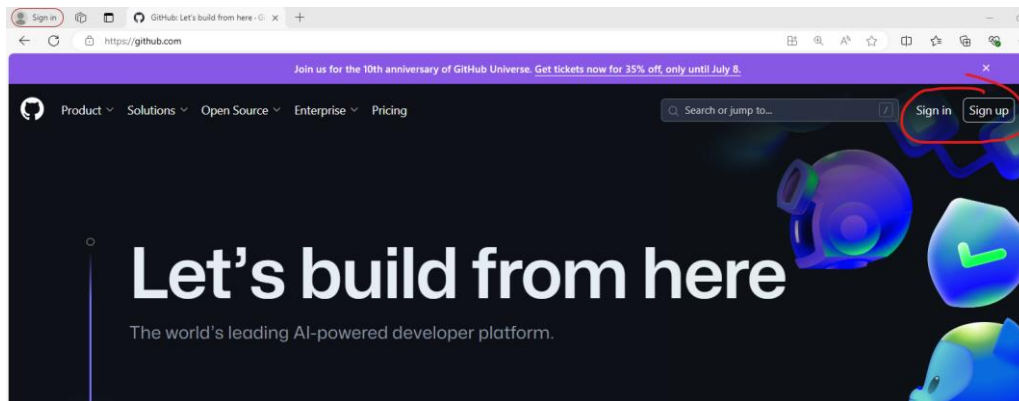
Tools :

Github online : [github.com](https://github.com)

Git desktop : <https://git-scm.com/download/> download dan install

Buat repository di github :

Masuk github ([github.com](https://github.com)), sign in jika sudah punya account, sign up jika belum punya account.



Sign in, masukkan user dan password



Sign in to GitHub

Username or email address

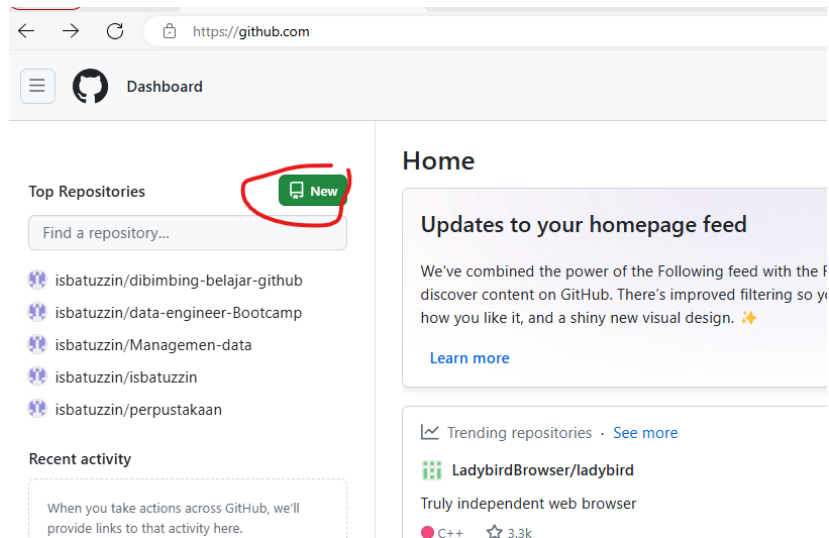
Password [Forgot password?](#)

Sign in

[Sign in with a passkey](#)

New to GitHub? [Create an account](#)

Buat repo, click new



Isikan nama repo dan sifat repo

https://github.com/new

## Create a new repository

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

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

Owner \* isbatuzzin Repository name \* nama\_repo  
nama\_repo is available.

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

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.

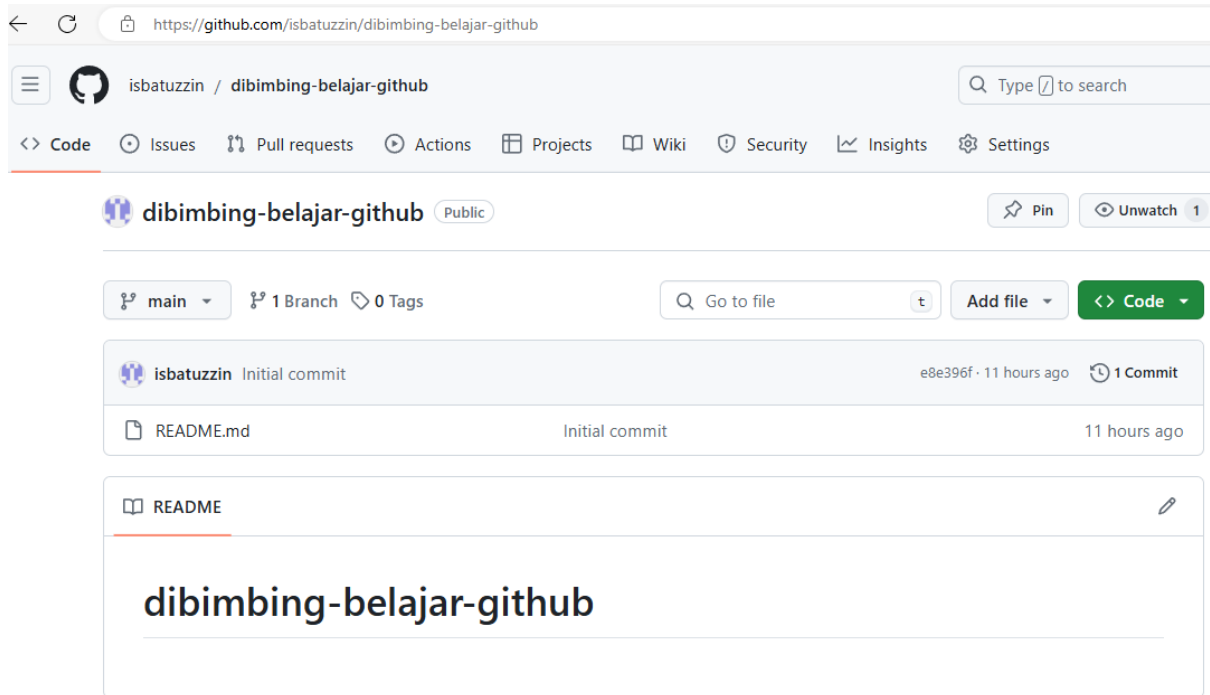
Initialize this repository with:  
☒ Add a README file  
This is where you can write a long description for your project. [Learn more about READMEs.](#)

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

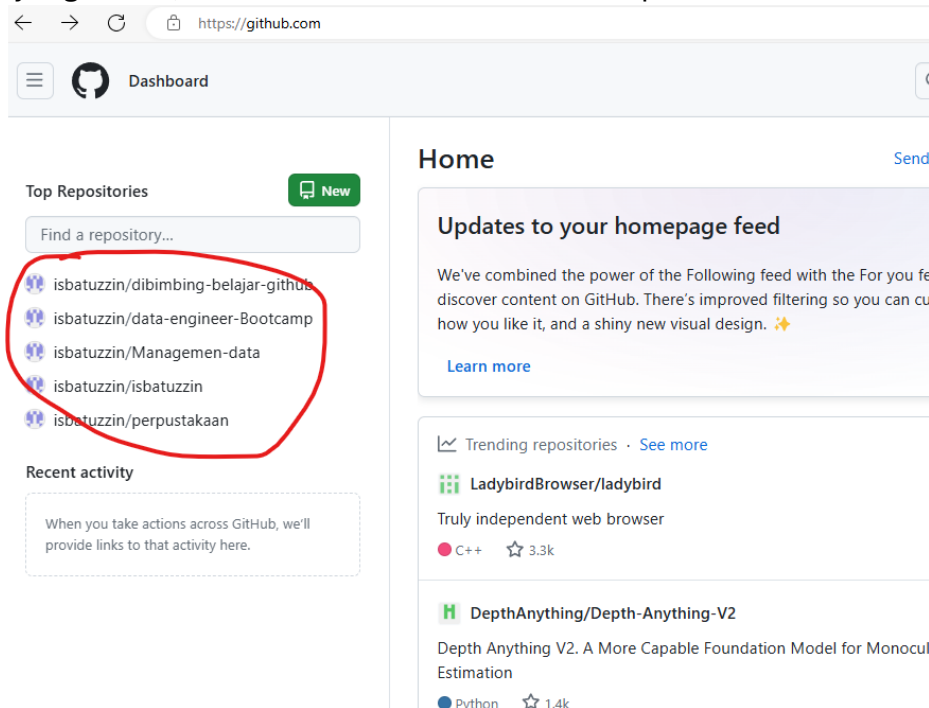
Hasil Repo



Readmi sebagai panduan pemakaian

Gitignore → ada file2 yang ndak boleh dimasukkan, misal password, dll yang ndak ikutan dicommit

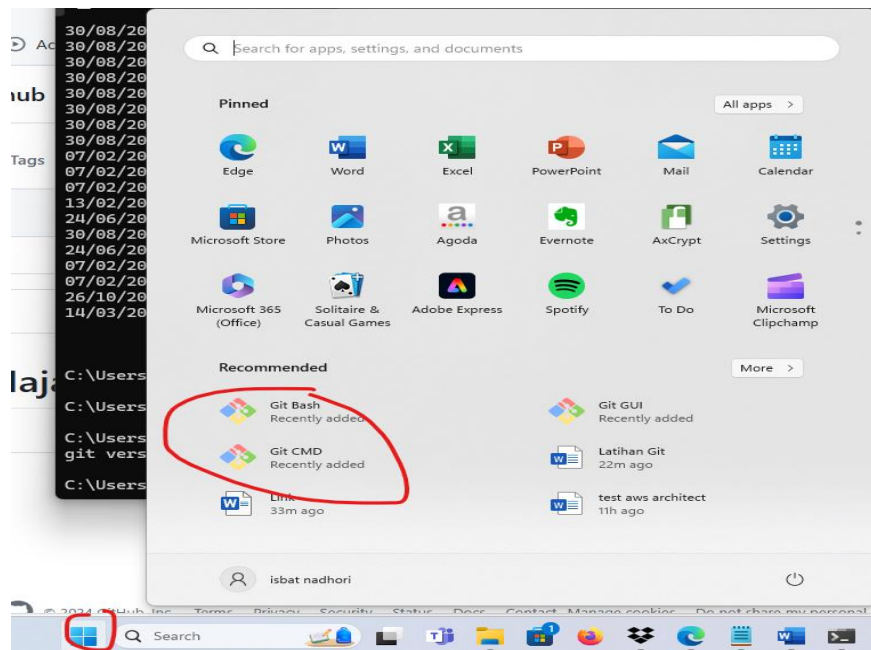
Hasil repo yang dibuat, klik salah satu untuk masuk ke repo



Selanjutnya kita bisa melakukan sinkronisasi dari lokal ke remote :

Pertama download <https://git-scm.com/download/> dan install

Jalankan dan masuk ke folder yang sudah disiapkan, untuk menjalankan click windows dan pilih GitBash atau GitCMD



Tampilan Git bash

```
MINGW64/c:/Users/isbat/project/dibimbing
$
isbat@PCKantor MINGW64 ~
$
isbat@PCKantor MINGW64 ~
$
isbat@PCKantor MINGW64 ~
$ pwd
/c/Users/isbat
isbat@PCKantor MINGW64 ~
$ cd project/
isbat@PCKantor MINGW64 ~/project
$ ls
dibimbing/
isbat@PCKantor MINGW64 ~/project
$ cd dibimbing/
isbat@PCKantor MINGW64 ~/project/dibimbing
$
```

Tampilan gitcmd

```
Git CMD
30/08/2023 08:21 12.870.368 edb_npgsql.exe
30/08/2023 08:21 12.015.600 edb_pgagent_pg15.exe
30/08/2023 08:21 42.177.720 edb_pgbounder.exe
30/08/2023 08:21 12.754.712 edb_pgjdbc.exe
30/08/2023 08:23 21.080.920 edb_psycopg.exe
30/08/2023 08:21 20.326.288 edb_psycopg.exe-20230830082148
30/08/2023 08:22 21.080.920 edb_psycopg.exe-20230830082244
30/08/2023 08:22 20.326.288 edb_psycopg.exe-20230830082250
07/02/2023 07:02 <DIR> Favorites
07/02/2023 07:02 <DIR> Links
07/02/2023 07:02 <DIR> Music
13/02/2024 10:06 <DIR> OneDrive
24/06/2024 07:00 <DIR> OneDrive - Politeknik Elektronika Negeri Surabaya
30/08/2023 08:22 74.222.472 pemhttpd.exe
24/06/2024 07:30 <DIR> project
07/02/2023 07:02 <DIR> Saved Games
07/02/2023 07:02 <DIR> Searches
26/10/2023 13:39 <DIR> Videos
14/03/2024 08:52 <DIR> VirtualBox VMs
12 File(s) 316.251.209 bytes
17 Dir(s) 70.439.333.888 bytes free

C:\Users\isbat>cd project

C:\Users\isbat\project>cd dibimbing

C:\Users\isbat\project\dibimbing>git --version
git version 2.45.2.windows.1

C:\Users\isbat\project\dibimbing>
```

Lihat version dengan menjalankan git --version  
Di git CMD

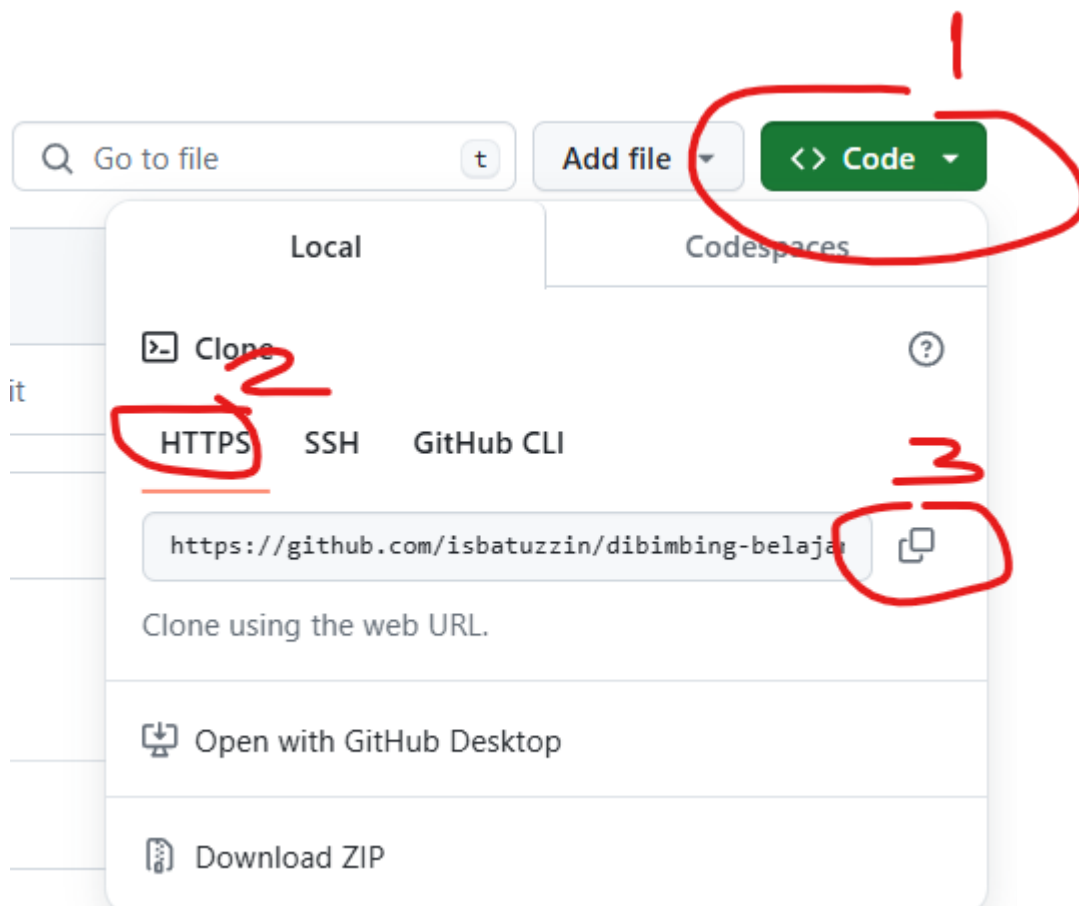
```
C:\Users\isbat\project\dibimbing>git --version
git version 2.45.2.windows.1
```

Atau di git Bash

```
MINGW64:/c/Users/isbat

isbat@PCKantor MINGW64 ~
$ git --version
git version 2.45.2.windows.1
```

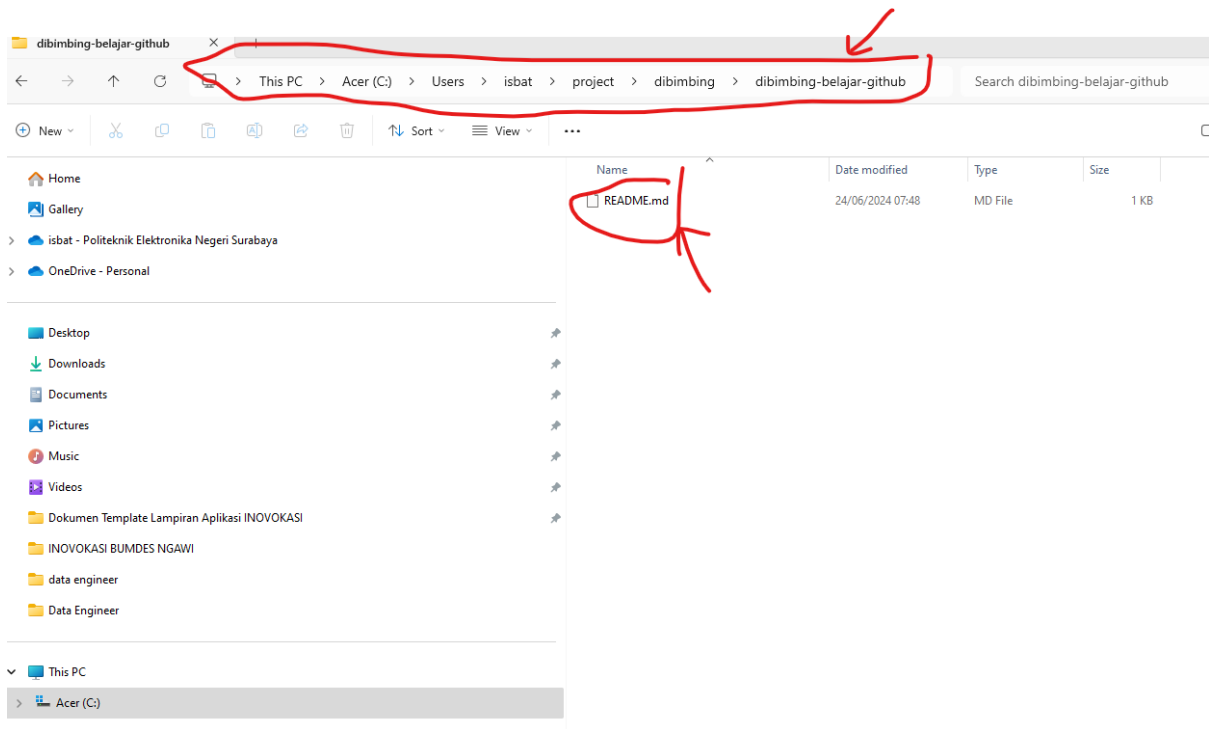
Sinkronisasi repo lokal dan github:  
Clone dari github ke lokal, Awalnya ambil link di git



Jalankan git clone dari git CMD

```
C:\Users\isbat\project\dibimbing>git clone https://github.com/isbatuzzin/dibimbing-belajar-github.git
Cloning into 'dibimbing-belajar-github'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
C:\Users\isbat\project\dibimbing>
```

Lihat hasil dari explorer project yang diclone sesuai folder yang dibuat



Contoh jika ada file baru dilokal dan ingin disinkronisasi dengan github di remote

Gunakan command Git add, menambahkan file ke github dari lokal  
Sebagai contoh dibuat file baru

```
Directory of C:\Users\isbat\project\dibimbing\test

24/06/2024  08:18    <DIR>
24/06/2024  08:13    <DIR>
24/06/2024  08:16    0 test.py
                   1 File(s)          0 bytes
                   2 Dir(s)  69.979.000.832 bytes free

C:\Users\isbat\project\dibimbing\test>
```

Untuk melihat jalankan git status, terlihat ada file yang belum commit

```

/c/Users/isbat/project/dibimbing/dibimbing-belajar-github

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$ ls
README.md  test/  test.py

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$ get status
bash: get: command not found

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    test.py
    test/

nothing added to commit but untracked files present (use "git add" to track)

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$

```

Untuk mensinkronisasi dimulai git add, git coomit dan git push  
Jalankan git add .

```

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$ git add .

```

Lalu lihat statusnya pakai perintah git status, terlihat warna sudah berubah

```

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   Latihan Git.docx
    new file:   test.py
    new file:   test/test.py

```

Git commit

```

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$ git commit -m "initial project -- hello word script"
[main f10fd9b] initial project -- hello word script
3 files changed, 2 insertions(+)
create mode 100644 Latihan Git.docx
create mode 100644 test.py
create mode 100644 test/test.py

```

Git status

```

isbat@PCKantor MINGW64 ~/project/dibimbing/dibimbing-belajar-github (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

```



Git push

Untuk melakukan push pastikan sshkey tanpa password jalan, cara membuat ssh key bisa dibaca di : <https://purdue.edu/science/scienceit/ssh-keys-windows.html>

Dari windows 11 bisa jalankan ssh-keygen

```
C:\Users\isbat\Documents>ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\isbat\.ssh/id_rsa):
Created directory 'C:\\Users\\isbat\\.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\isbat\.ssh/id_rsa
Your public key has been saved in C:\Users\isbat\.ssh/id_rsa.pub
The key fingerprint is:
SHA256:prMuL8Y20AoHbNaGr+tVgcsgdCMmLodkvZ10NNiSzqs isbat@PCKantor
The key's randomart image is:
+---[RSA 3072]-----+
|. *.o  =o          |
|B.o.o= o.         |
|+o..*.*+         |
|+. = .. =        |
|. = = .. S       |
|o.o .. o         |
|. . = . o        |
|.. =EB  o        |
|o = . + *+       |
+----[SHA256]-----+

C:\Users\isbat\Documents>
```

Setelah menjalankan ssh key akan terbentuk dua file di .ssh yaitu id\_rsa dan id\_rsa.pub

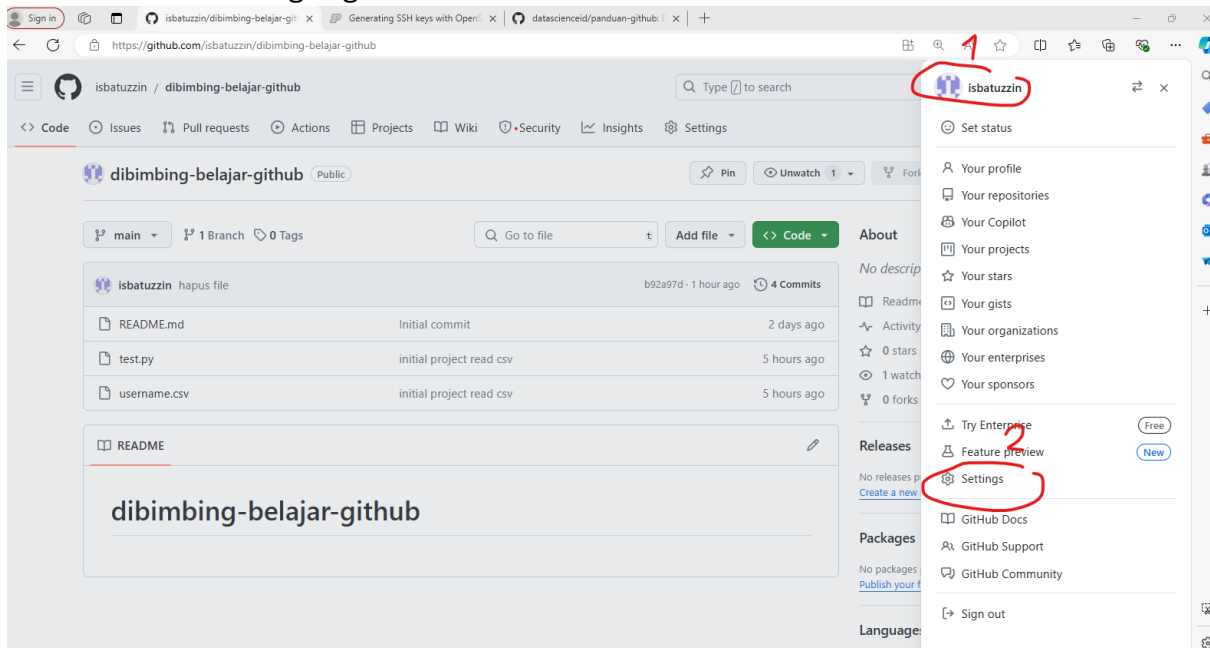
```
isbat@PCKantor MINGW64 ~/.ssh
$ ls
id_rsa id_rsa.pub
```

Buka id\_rsa.pub dan copikan ke github ssh key

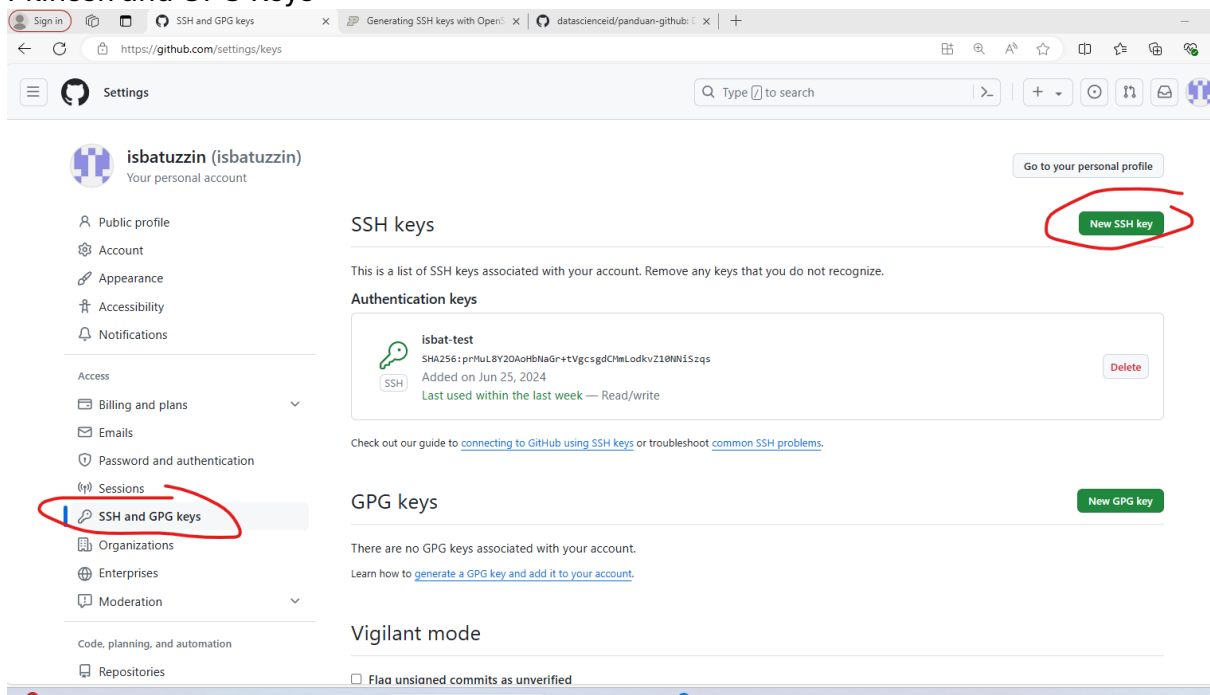
```
isbat@PCKantor MINGW64 ~/.ssh
$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQC3BJWaiE3x2u08421h3zJcREdx9HFyzfBspay8VHYnrqGf9472sD9DPVWkhM0wv9jUNBfdrKBP2zKEH2SQoAE4nCmskWMNBKJVx0m6BpymzaZ6ay6k0unuHgdNMOAF5d8f9BhD8nLqCdcw6JvBrhSobVMTj18ji88e4P4z1ILnr1YDhtzjIRaNDHwa7oUd53zThJ8QhpFIkwX0chYcN4wlsOP3vKehRU1PkIBfh5YuhqZQLfToyqsIxa8CRk/rBgYGKpNv6Xeh/Hi4Np/TL21Dxnw7s9BdHyv+Xd08M192hBmtrjgBbB2szsdE1AUhdbt0iv7j0cdYiB2mub63R/1BijfXf1ZaSZkvfc0L716YyGnopCT333tv4L8hqPJqvWL2dcVY39LSkyAB4GWISVjmcz5I4rKY9UF/L1t5Wza3d7qTSBidI6AifjH989zbq4zIG4LhVKo0G9lraLe+02UUgv6AfF8wS76szyd9VjjzHCjJCWeBmZ7z5kUOM6aCTHs= isbat@PCKantor
```

## Cara kopi

### Masuk ke user setting di github



### Pilihssh and GPG Keys



Klik New SSH Key dam kopikan isi id\_ssh.pub ke sini

https://github.com/settings/keys

Settings

isbatuzzin (isbatuzzin)  
Your personal account

Go to your personal profile

Public profile  
Account  
Appearance  
Accessibility  
Notifications

Access

Billing and plans  
Emails  
Password and authentication  
Sessions  
SSH and GPG keys  
Organizations  
Enterprises  
Moderation

Code, planning, and automation

## SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

### Authentication keys

isbat-test  
SHA256:prMuL8Y20AoHbNaGr+TVgcsgdChmLodkvZ10NW1Szqs  
Added on Jun 25, 2024  
Last used within the last week — Read/write  
Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

## GPG keys

New GPG key

There are no GPG keys associated with your account.  
Learn how to [generate a GPG key and add it to your account](#).

## Vigilant mode

```
isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (main)
$ ls
'Latihan Git.docx'  README.md  test.py  username.csv
```

```
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
(use "git add <file>..." to include in what will be committed)
  test.py
  username.csv
```

```
$ git add .
warning: in the working copy of 'username.csv', LF will be replaced by CRLF the
next time Git touches it
```

```
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
(use "git restore --staged <file>..." to unstage)
  new file:   test.py
  new file:   username.csv
```

```
$ git commit -m "initial project read csv"
[main ee655ee] initial project read csv
2 files changed, 12 insertions(+)
create mode 100644 test.py
create mode 100644 username.csv
```

```
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 20 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 573 bytes | 573.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:isbatuzzin/dibimbing-belajar-github.git
6275287..ee655ee main -> main
```

## Haisl

The screenshot shows the GitHub repository page for 'dibimbing-belajar-github' by user 'isbatuzzin'. The page displays the commit history and file list. A red circle highlights the 'test.py' and 'username.csv' files in the file list, and a red arrow points to the refresh button in the browser address bar.

| File         | Commit Message           | Commit Hash | Time          |
|--------------|--------------------------|-------------|---------------|
| test.py      | initial project read csv | ee655ee     | 4 minutes ago |
| username.csv | initial project read csv | ee655ee     | 4 minutes ago |

## Menghapus file

- Git rm
- Git commit
- Git push

```

isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (main)
$ git rm Latihan\ Git.docx
rm 'Latihan Git.docx'

isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (main)
$ git commit
Aborting commit due to empty commit message.

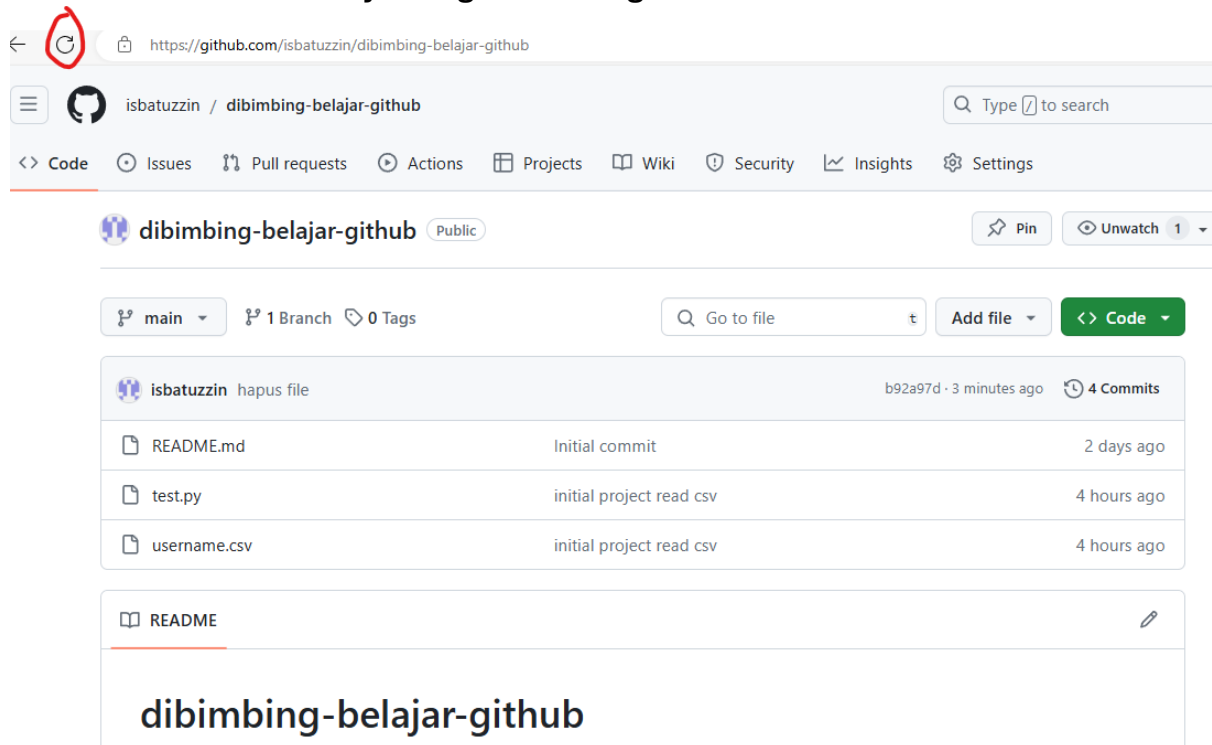
isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (main)
$ git commit -m "hapus file"
[main b92a97d] hapus file
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 Latihan Git.docx

isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 20 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 219 bytes | 219.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:isbatuzzin/dibimbing-belajar-github.git
ee655ee..b92a97d main -> main

```

## Hasil

Dari browser lihat hasilnya dengan refresh github kita



https://github.com/isbatuzzin/dibimbing-belajar-github

isbatuzzin / dibimbing-belajar-github

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

dibimbing-belajar-github Public

main 1 Branch 0 Tags

Go to file Add file Code

| File         | Commit Message           | Time        |
|--------------|--------------------------|-------------|
| README.md    | Initial commit           | 2 days ago  |
| test.py      | initial project read csv | 4 hours ago |
| username.csv | initial project read csv | 4 hours ago |

README

# dibimbing-belajar-github

## Git log

Melihat aktivitas yang sudah dilakukan

```

$ git log
commit b92a97d09f13456fcf87343144376d01555783d6 (HEAD -> main, origin/main, origin/HEAD)
Author: isbat nadhori <isbatuzzin@gmail.com>
Date: Tue Jun 25 12:07:49 2024 +0700

    hapus file

commit ee655ee9fccce973ffbb7e7049afd37fa63cf2d7
Author: isbat nadhori <isbatuzzin@gmail.com>
Date: Tue Jun 25 08:01:46 2024 +0700

    initial project read csv

commit 62752878d87d4662c020b2438bdb283ddaf7f531
Author: isbatuzzin <54133704+isbatuzzin@users.noreply.github.com>
Date: Mon Jun 24 08:11:48 2024 +0700

    Add files via upload

commit e8e396ffc7acec9b2e032358c34faa95ec7ad76a
Author: isbatuzzin <54133704+isbatuzzin@users.noreply.github.com>
Date: Sun Jun 23 20:17:02 2024 +0700

    Initial commit

```

**Update project**

**Git pull**

**Buat vbarch**

```

$ git checkout -b test
Switched to a new branch 'test'

```

```

$ git status branch
On branch test
nothing to commit, working tree clean

```

```

isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (test)
$ git add test.py

isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (test)
$ git commit -m "test branach"
[test d02bd78] test branach
1 file changed, 3 insertions(+), 1 deletion(-)

isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (test)
$ git push origin test
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 20 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 358 bytes | 358.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'test' on GitHub by visiting:
remote:   https://github.com/isbatuzzin/dibimbing-belajar-github/pull/new/test
remote:
To github.com:isbatuzzin/dibimbing-belajar-github.git
 * [new branch]      test -> test

isbat@PCKantor MINGW64 ~/project/dibimbing-belajar-github (test)
$ !

```

## Contoh hasil branch

The screenshot displays the GitHub web interface for the repository 'dibimbing-belajar-github'. The 'Files' tab is active, showing the file 'test.py'. A 'Switch branches/tags' modal is open on the left, showing the 'test' branch as the current selection, with 'main' as the default. The main content area shows the code for 'test.py' in the 'test' branch, which contains 7 lines of Python code using pandas. The interface also shows navigation links like Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings at the top.

## Merge branch

```

Date: Mon Jun 24 08:11:48 2024 +0700

Add files via upload

* commit e8e396ffc7acec9b2e032358c34faa95ec7ad76a
Author: isbatuzzin <54133704+isbatuzzin@users.noreply.github.com>
Date: Sun Jun 23 20:17:02 2024 +0700

...skipping...
* commit d999442184ddcb7438c6c8c35894421423b5bcae (HEAD -> main, origin/main,
origin/HEAD)
Merge: b92a97d d02bd78
Author: isbatuzzin <54133704+isbatuzzin@users.noreply.github.com>
Date: Tue Jun 25 17:00:16 2024 +0700

Merge pull request #1 from isbatuzzin/test

test branch

* commit d02bd78490639eaecaad9180c787f92e8ed7b72f (origin/test, test)
Author: isbat nadhori <isbatuzzin@gmail.com>
Date: Tue Jun 25 16:38:26 2024 +0700

test branach

* commit b92a97d09f13456fcf87343144376d01555783d6
Author: isbat nadhori <isbatuzzin@gmail.com>
Date: Tue Jun 25 12:07:49 2024 +0700

hapus file

* commit ee655ee9fccce973ffbb7e7049afd37fa63cf2d7
Author: isbat nadhori <isbatuzzin@gmail.com>
Date: Tue Jun 25 08:01:46 2024 +0700

initial project read csv

* commit 62752878d87d4662c020b2438bdb283ddaf7f531
Author: isbatuzzin <54133704+isbatuzzin@users.noreply.github.com>
Date: Mon Jun 24 08:11:48 2024 +0700

Add files via upload

* commit e8e396ffc7acec9b2e032358c34faa95ec7ad76a
Author: isbatuzzin <54133704+isbatuzzin@users.noreply.github.com>
Date: Sun Jun 23 20:17:02 2024 +0700

```

## Pull ke local

```

$ git pull
Already up to date.

```