# Bekerja dengan GITHUB

Dr. T. Brenda Chandrawati



- Platform khusus developer yang dibuat karena terinspirasi cara bekerja para programmer
- Merupakan manajemen proyek, sistem versioning code, sekaligus platform jaringan social bagi developer



Keuntungan menggunakan GitHub

- Monitoring setiap perubahan yang terjadi dalam file/program
- Sebagai tempat kolaborasi dengan tim
- Menunjang protofolio



Istilah penting dalam GitHub

- Repository/Repo: tempat/folder untuk meletakkan project
- **Commit**: fitur rekaman atau snapshot dari repository (menyimpan Riwayat perubahan)
- Checkout: melakukan perpindahan ke dalam perubahan tertentu



Istilah penting dalam GitHub

- Hash: penanda unik pada commit
- Merge: menggabungkan dua komponen branch atau lebih
- Branch: suatu cabang dari perubahan
- Remote: sumber daya (resource) yang mempunyai repository



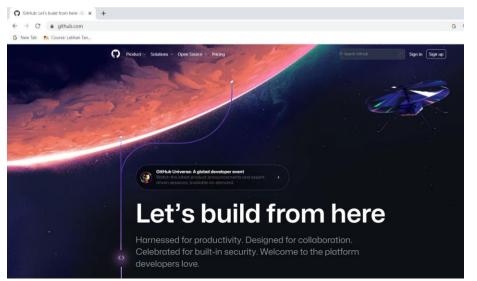
Istilah penting dalam GitHub

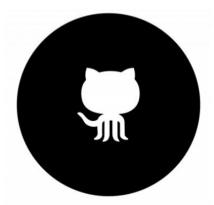
- **Push**: mengirim commit menuju ke repository
- **Pull**: mengambil sebuah commit dari repository
- Clone: mengambil repository dari sebuah remote



#### Join *Account*

1. Kunjungi website GitHub





Join *Account* 

2. Memasukkan alamat email





Join *Account* 

2. Klik "Smart puzzle"





Join *Account* 

2. Klik "Smart puzzle"





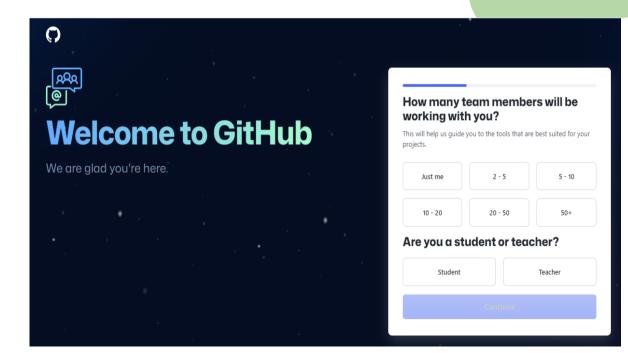
Join Account

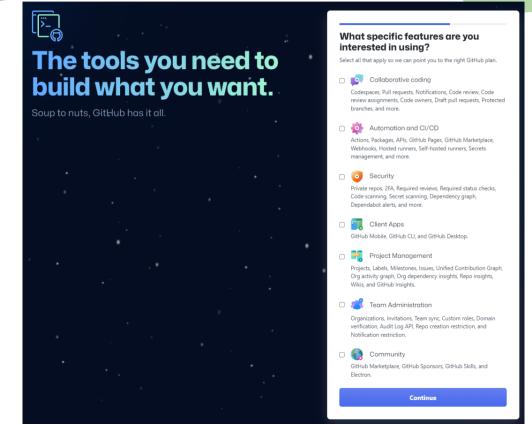
3. Memasukkan kode yang telah dikirim ke email



Join Account

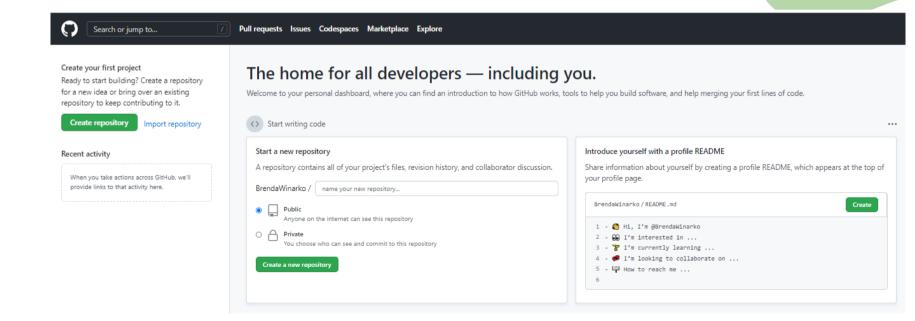
4. Menjawab pertanyaan-pertanyaan





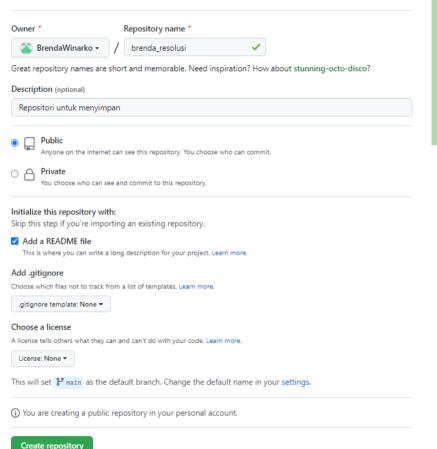
Join Account

5. Open GitHub via verifikasi email



#### Create a new repository

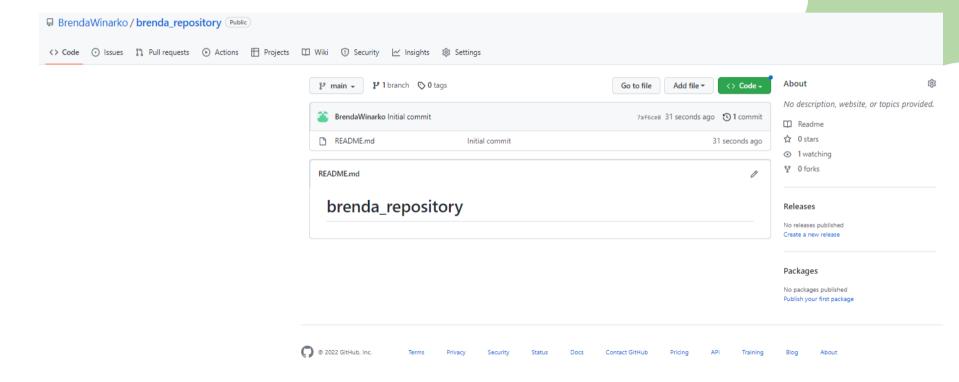
A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.



- Repository name: kolom untuk memberi nama repo yang ingin dibuat
- **Description**: kolom untuk mendeskripsikan repo yang ingin dibuat. Sifatnya optional, boleh diisi atau tidak
- **Visibility**: terdapat 2 opsi penampilan repo yaitu "public" dan "private".

- ✓ Public: pengguna lain dapat melihat file yang dibuat
- ✓ Private: jika hanya ingin dilihat sendiri

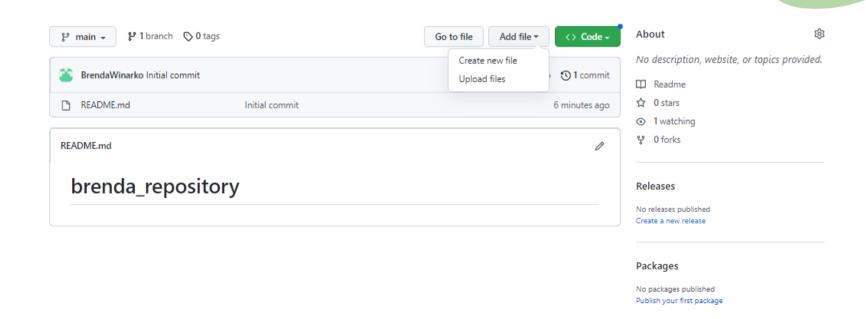
- Initialize this repository: opsi untuk mengatur project baru yang akan dibuat.
  - ✓ Opsi pertama dengan pemasangan file "Readme". Readme selalu ada di setiap repository untuk menjelaskan penjelasan singkat/detail, cara penggunaan, dan sebagainya.
  - ✓ Jika ingin dibuat secara otomatis oleh GitHub, *checklist* tombolnya.



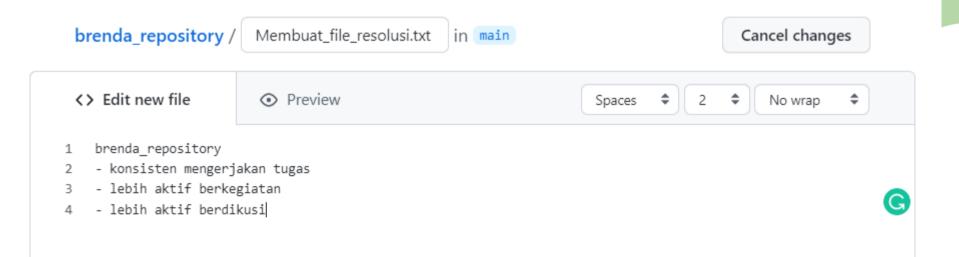
<a href="https://github.com/BrendaWinarko/brenda\_reposito">https://github.com/BrendaWinarko/brenda\_reposito</a>
<a href="mailto:ry">ry</a>

- dibuat di dalam Github
- Menyimpan banyak folder dan file

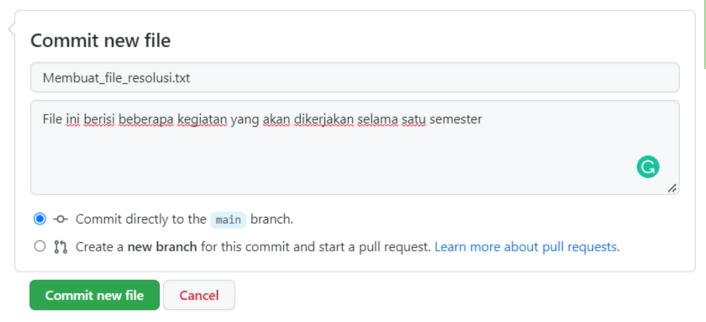
create new file

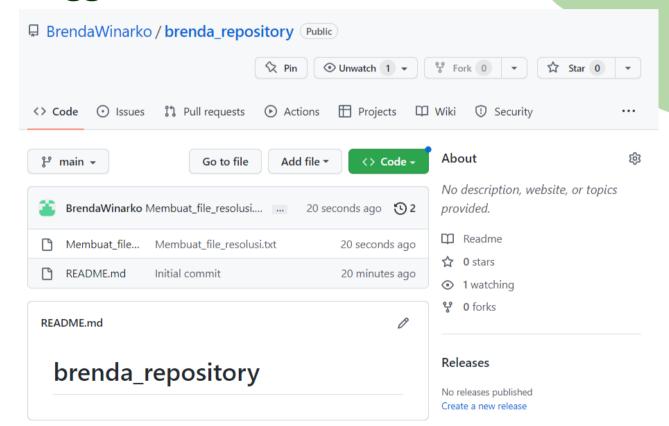


 nama file: isi dengan kode jenis file, misal php, javascript, html dll

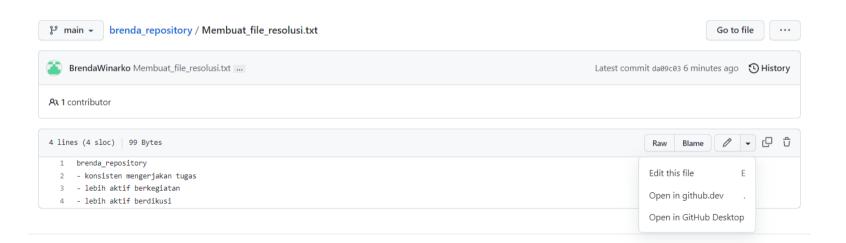




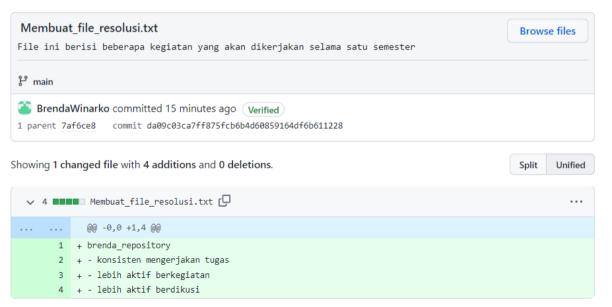




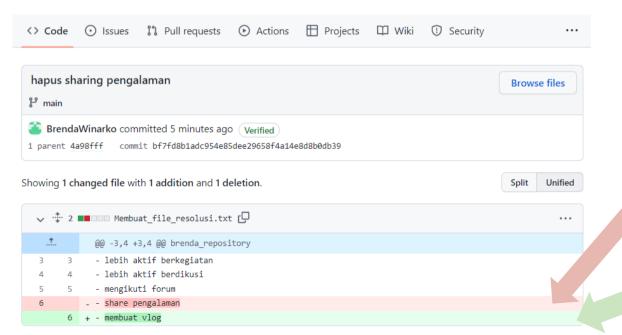
#### Mengedit file



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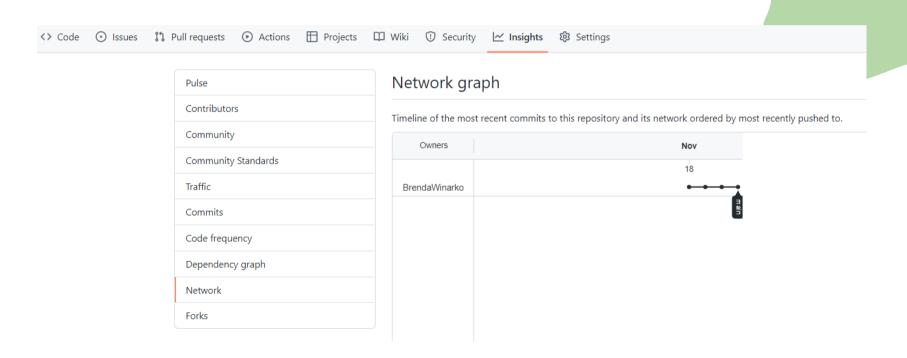


### Mengedit file



dikurangi

ditambahkan

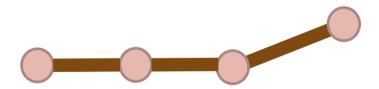


# **BRANCH**



### **BRANCH**

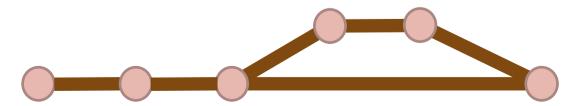
Konsep branch ini adalah konsep git



Master/main brach

- membuat Git Branch
- Membuat snapshot tanpa mengganggu jalur utama (master/main branch)
- Fitur experimental
- 2 orang mengerjakan repo yang sama

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#### Commit new file

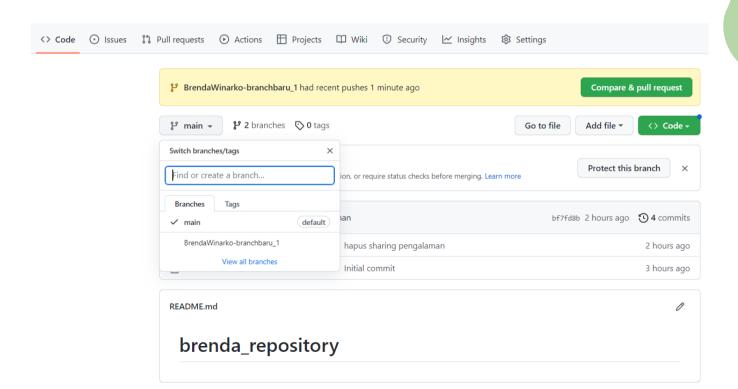
Create brenda\_coba\_lagi

Add an optional extended description...

- -O- Commit directly to the coba\_lagi branch.
- O 🐧 Create a new branch for this commit and start a pull request. Learn more about pull requests.

Commit new file

Cancel



# **Branching**

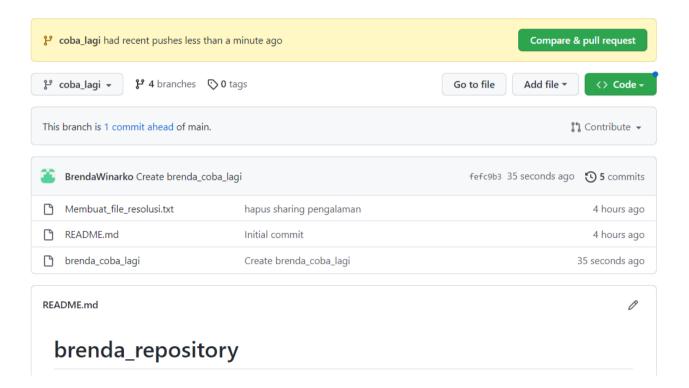
Pulse Contributors Community Community Standards Traffic Commits Code frequency Dependency graph Network Forks

#### Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.

| Owners        | Nov                        |
|---------------|----------------------------|
| BrendaWinarko | 18                         |
|               | BrendaWinarko-branchbaru_1 |

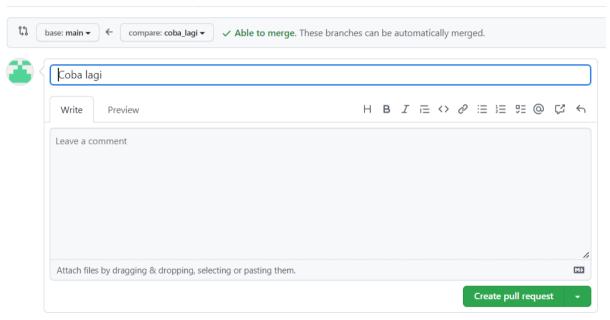
### **Branching**

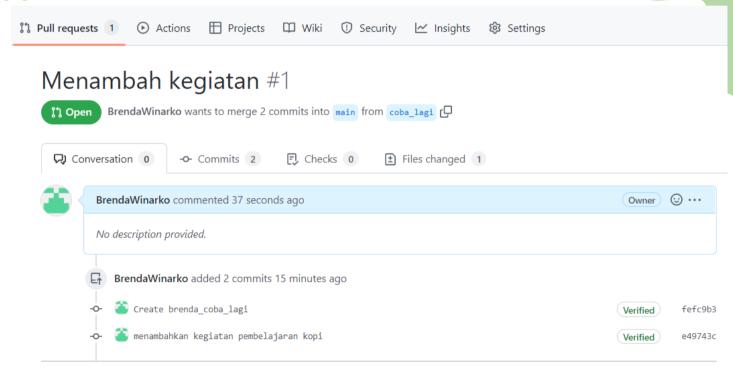


- menggabungkan branch ke main branch
- Compare and pull request

#### Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.





Add more commits by pushing to the coba\_lagi branch on BrendaWinarko/brenda\_repository.







#### Pull request successfully merged and closed

You're all set—the coba\_lagi branch can be safely deleted.

Delete branch

 $ext{<>}$  Code  $ext{ } ext{O}$  Issues  $ext{ } ext{ } ext{ } ext{ } ext{Pull requests}$   $ext{ } ext{ } ext{$ 

Pulse

Contributors

Community

Community Standards

Traffic

Commits

Code frequency

Dependency graph

Network

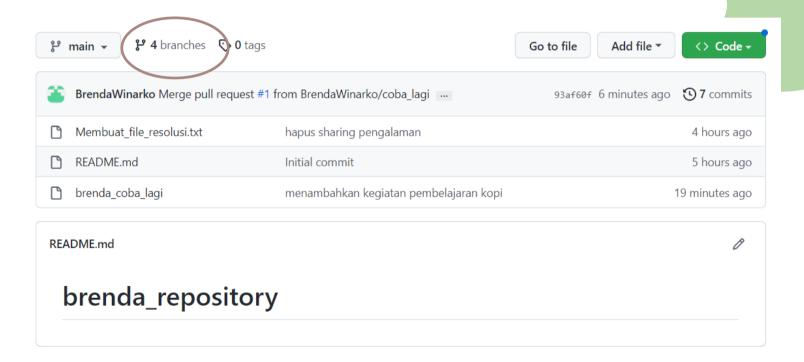
Forks

#### Network graph

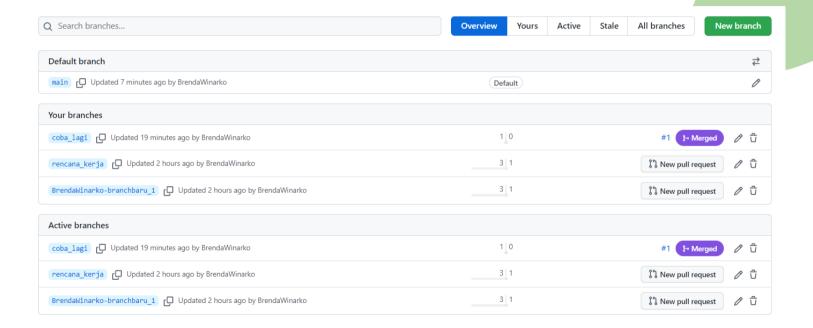
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| Owners        | Nov                                       |
|---------------|---|
| BrendaWinarko | main coballagi                            |
|               | rencana_kerfa  BrendaWinarko-branchbaru_1 |

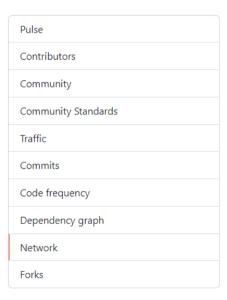
### Menghapus branch



#### Menghapus branch



# Menghapus branch



#### Network graph

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| Owners        | Nov  |
|---------------|--|
| BrendaWinarko | Brendaw                                      |
|               | rancana_keria<br>Brenda/vinarko-branchbaru_1 |

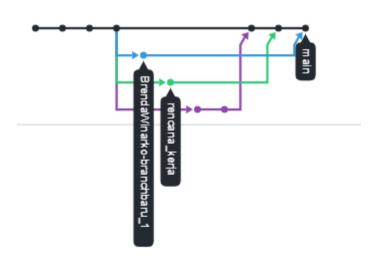


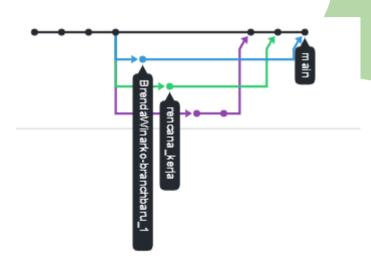
#### **FORKING**

- Membuat 'copy/duplikat' dari repo orang lain (beserta history-nya)
- Jembatan antara repo original dan duplikatnya
- Modifikasi terhadap repo original
- Berkontribusi pada repo orang lain
- Fork != Clone

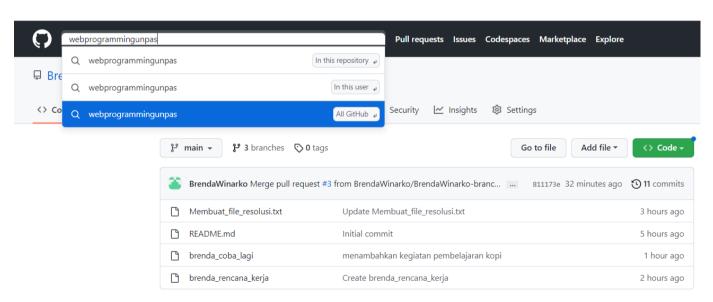
#### **FORKING**

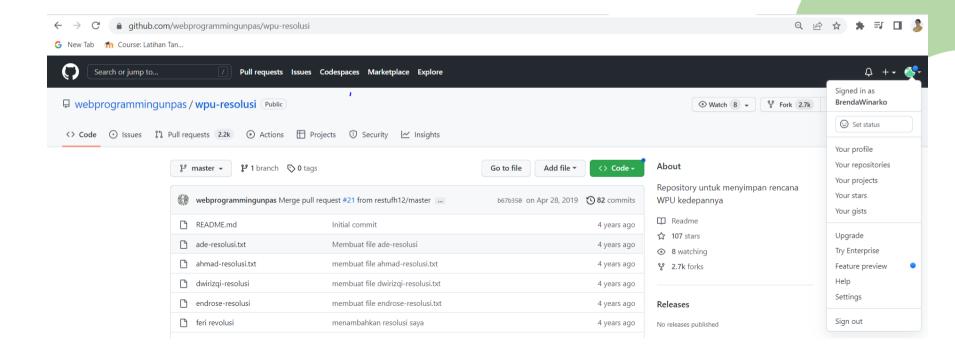
- Fork → menduplikat repo orang lain untuk pindah ke repo kita
- Clone → menduplikat yang ada di dalam remote (di GitHub) ke computer kita

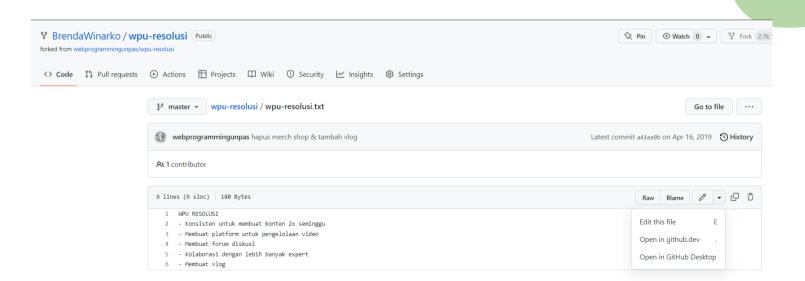




Harus login ke GitHub dengan akun yang lain









Please keep this slide for attribution

# Thanks!

