

git (2)

Fastcampus Programming SCHOOL

Branch

What is branch?

What is branch?(1)



What is branch?(2)

분기점을 생성하고 독립적으로 코드를 변경할 수 있도록 도와주는 모델

ex)

master branch

```
print('hello world!')
```

another branch

```
for i in range(1,10):  
    print('hello world for the %s times!' % i)
```

Branch(1)

Show available local branch

```
$ git branch
```

Show available remote branch

```
$ git branch -r
```

Show available All branch

```
$ git branch -a
```

Branch(2)

Create branch

```
$ git branch stem
```

Checkout branch

```
$ git checkout stem
```

Create & Checkout branch

```
$ git checkout -b new-stem
```

make changes inside [readme.md](#)

```
$ git commit -a -m 'edit readme.md'
```

```
$ git checkout master
```

merge branch

```
$ git merge stem
```

Branch(3)

delete branch

```
$ git branch -D stem
```

push with specified remote branch

```
$ git push origin stem
```

see the difference between two branches

```
$ git diff master stem
```


Branch asciinema

```
for _ in range(10):
    print("Fizzybuzzzy")
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ vi fizzbuzz.py
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ python3 fizzbuzz.py
Fizzybuzzzy
Fizzybuzzzy
Fizzybuzzzy
Fizzybuzzzy
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ vi fizzbuzz.py
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ python3 fizzbuzz.py
Fizzybuzzzy, 0
Fizzybuzzzy, 3
Fizzybuzzzy, 6
Fizzybuzzzy, 9
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ vi fizzbuzz.py
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ python3 fizzbuzz.py
Fizzybuzzzy, 3
Fizzybuzzzy, 6
Fizzybuzzzy, 9
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ git status
On branch feature/fizz
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   fizzbuzz.py

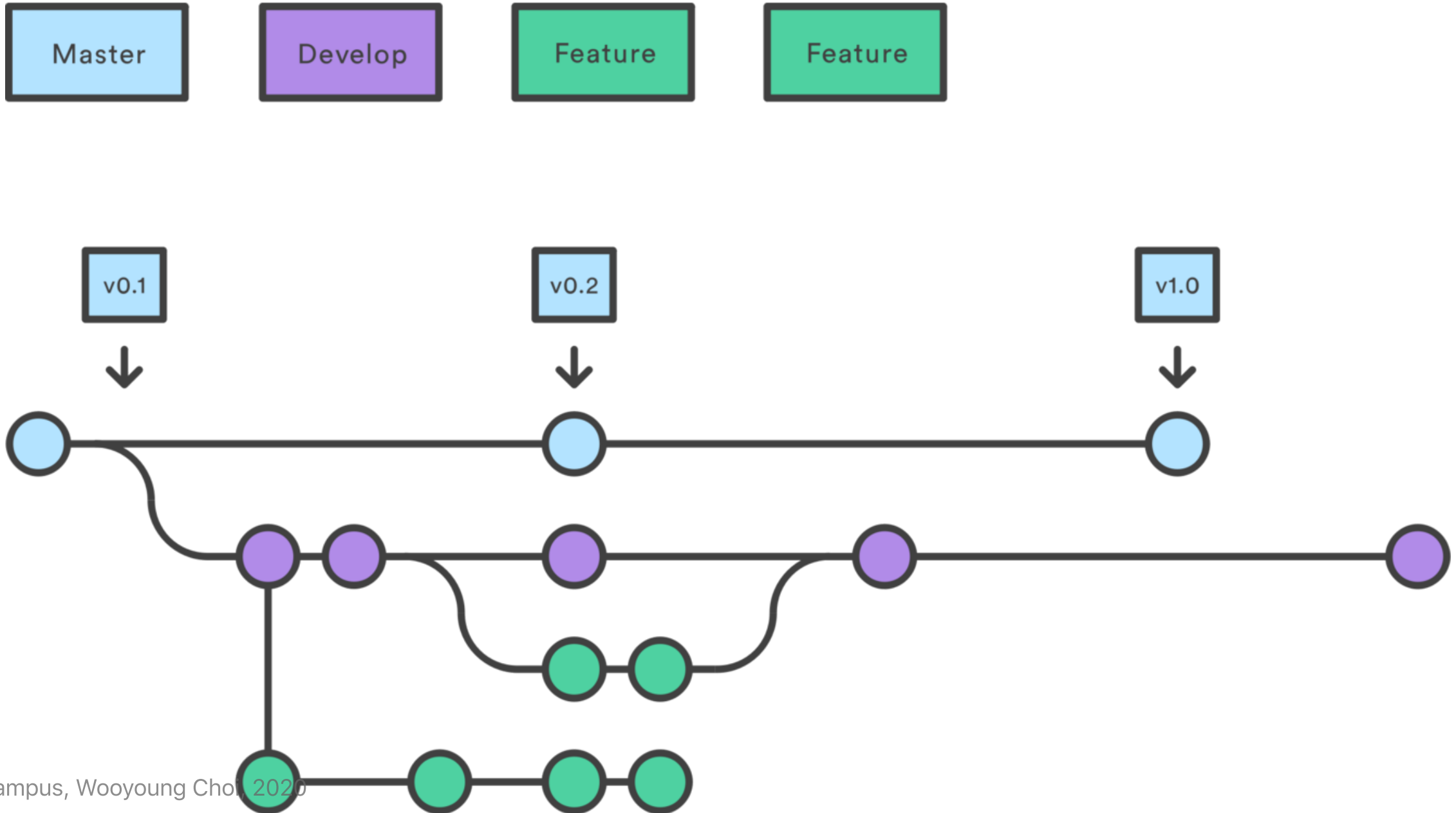
no changes added to commit (use "git add" and/or "git commit -a")
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ git add fizzbuzz.py
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ git commit -m "feat: Add fizz solution"
> print fizzybuzzzy while i is times of 3"
[feature/fizz 3e2b305] feat: Add fizz solution print fizzybuzzzy while i is times of 3
 1 file changed, 3 insertions(+), 2 deletions(-)
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ cat fizzbuzz.py
for i in range(1,10):
    if i%3==0:
        print(f"Fizzybuzzzy, {i}")
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 3 commits.
  (use "git push" to publish your local commits)
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ cat fizzbuzz.py
for _ in range(10):
    print("Fizzybuzzzy")
vagrant@ubuntu-bionic:~/Documents/dev/upgraded-fortnight$ vi
```



branching models

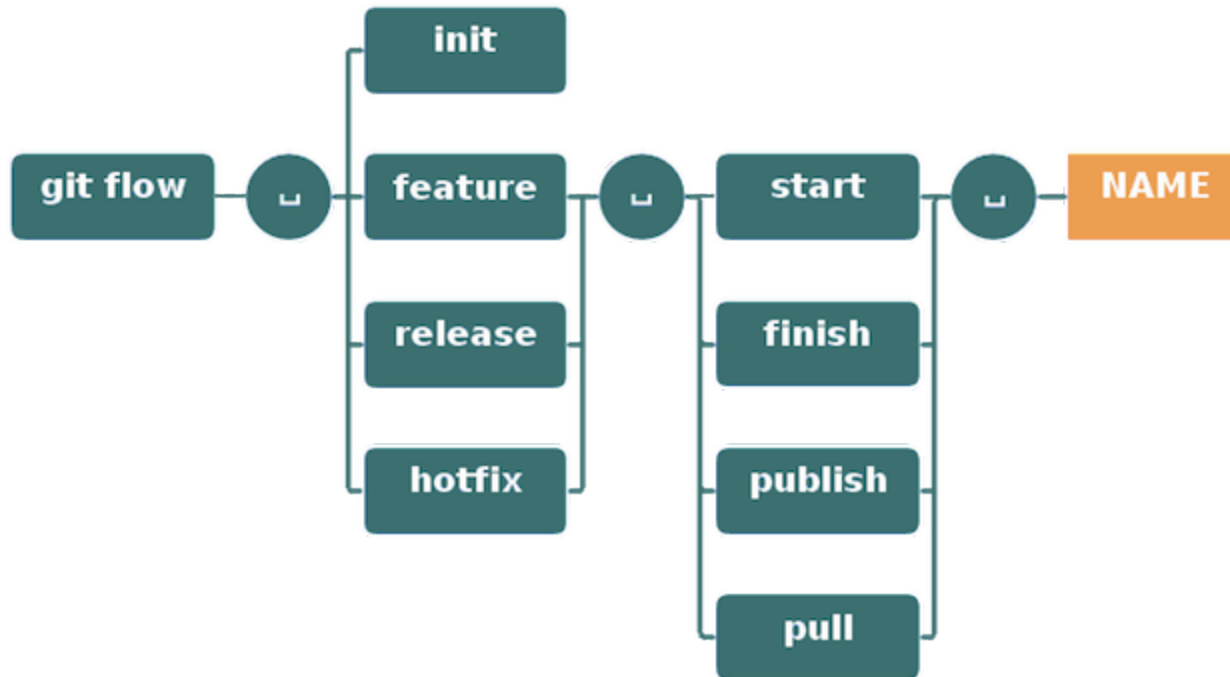
- git flow
 - (hotfix)- `master` -(release)- `develop` - feature
 - pros: 가장 많이 적용, 각 단계가 명확히 구분
 - cons: 복잡..
- github flow
 - `master` - feature
 - pros: 브랜치 모델 단순화, `master` 의 모든 커밋은 deployable
 - cons: CI 의존성 높음. 누구 하나라도 실수했다간..(pull request로 방지)
- gitlab flow
 - `production` - `pre-production` - `master` - feature
 - pros: deploy, issue에 대한 대응이 가능하도록 보완
 - cons: git flow와 반대 (`master` -develop, `production` -master)

git flow strategy



use git flow easily!

[Link](#)



Collaborate with your Co-worker

Method 1: Collaboration

Add Collaborator

[Code](#) [Issues 0](#) [Pull requests 0](#) [Projects 0](#) [Wiki](#) [Settings](#) [Insights ▾](#)

[Options](#)
Collaborators
[Webhooks](#)
[Integrations & services](#)
[Deploy keys](#)

Collaborators

Push access to the repository

This repository doesn't have any collaborators yet. Use the form below to add a collaborator.

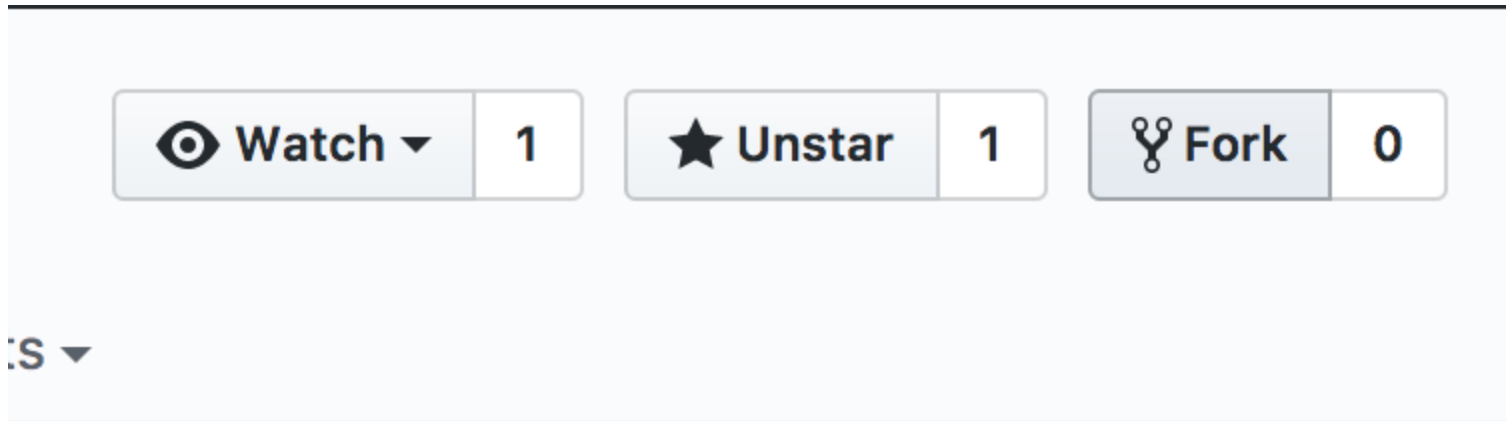
Search by username, full name or email address
You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.

Add collaborator

Collaboration

Add, Commit and Push like you own it.

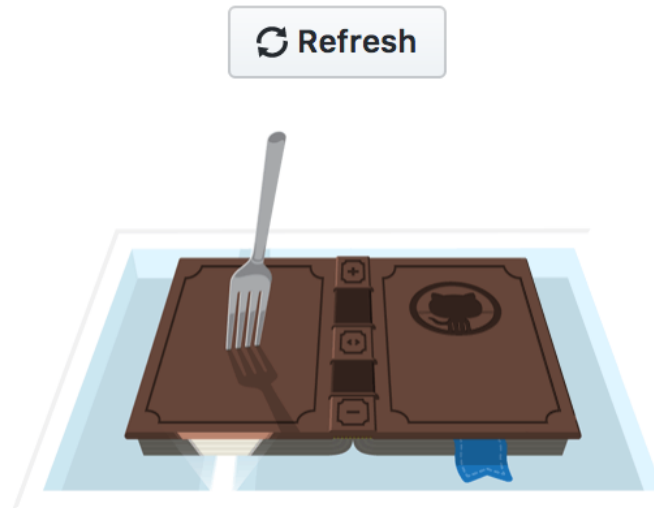
Method 2: Fork and Merge



Fork and Merge

Forking JKeun/study-of-regression-toyota-corolla

It should only take a few seconds.



Fork and Merge

 **ulgoon / study-of-regression-toyota-corolla**
forked from [JKeun/study-of-regression-toyota-corolla](#)

 **Code**

 Pull requests **0**

 Projects **0**

 Wiki



 **Study - Regression Analysis using ToyotaCorolla dataset**
[Add topics](#)

 **9 commits**

 **1 branch**

Branch: master ▼

New pull request

Fork and Merge

```
$ git clone https://github.com/username/forked-repo.git
```

Fork and Merge

```
$ git branch -a
```

```
$ git checkout -b new-feature
```

Fork and Merge

Make some change

```
$ git add file
```

```
$ git commit -m "commit message"
```

```
$ git push origin new-feature
```

Fork and Merge

No description, website, or topics provided.

Edit

[Add topics](#)

🕒 1 commit

🌿 3 branches

🏷️ 0 releases

👤 1 contributor

Your recently pushed branches:


🌿 **edit-index** (less than a minute ago)

🔗 Compare & pull request


Fork and Merge

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](#).

 base fork: kingwangzzang1234/kingwa... ▼ base: master ▼ ... head fork: ulgoon/kingwangzzang1234... ▼ compare: edit-index ▼

✓ **Able to merge.** These branches can be automatically merged.



edit index.html

Write

Preview

AA ▼ B i “ <> 🔗 ⋮ ≡ ✓ ≡ ↶ @ 🚩

add header, footer tag


Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

☒ **Allow edits from maintainers.** [Learn more](#)


Create pull request


Fork and Merge

edit index.html #2

 **Open** ulgoon wants to merge 1 commit into kingwangzzang1234:master from ulgoon:edit-index

 Conversation 0

 Commits 1

 Files changed 1





ulgoon commented 17 seconds ago

Contributor



add header, footer tag

  edit index.html ...

d81b362


Add more commits by pushing to the **edit-index** branch on [ulgoon/kingwangzzang1234.github.io](https://github.com/ulgoon/kingwangzzang1234).




This branch has no conflicts with the base branch

Only those with [write access](#) to this repository can merge pull requests.


Fork and Merge




☐  1 Open ✓ 1 Closed

☐  **edit index.html**
#2 opened 28 seconds ago by ulgoon

Fork and Merge

edit index.html #2

 **Open** ulgoon wants to merge 1 commit into `kingwangzzang1234:master` from `ulgoon:edit-index`

 Conversation **0**  Commits **1**  Files changed **1**




ulgoon commented 38 seconds ago

Contributor



add header, footer tag

 edit index.html ...

d81b362

Add more commits by pushing to the **edit-index** branch on [ulgoon/kingwangzzang1234.github.io](https://github.com/ulgoon/kingwangzzang1234).



This branch has no conflicts with the base branch

Merging can be performed automatically.


Merge pull request






You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Fork and Merge

edit index.html #2

 **Open** ulgoon wants to merge 1 commit into `kingwangzzang1234:master` from `ulgoon:edit-index`

 Conversation **0**  Commits **1**  Files changed **1**




ulgoon commented 38 seconds ago

Contributor



add header, footer tag

 `edit index.html` ...

d81b362

Add more commits by pushing to the **edit-index** branch on `ulgoon/kingwangzzang1234.github.io`.



Merge pull request #2 from ulgoon/edit-index

edit index.html

Confirm merge

Cancel

Fork and Merge

edit index.html #2

Merged kingwangzzang... merged 1 commit into kingwangzzang1234:master from ulgoon:edit-index just now

Conversation 0

Commits 1

Files changed 1



ulgoon commented 38 seconds ago

Contributor



add header, footer tag



edit index.html ...

d81b362



kingwangzzang1234 merged commit 45d71fa into kingwangzzang1234:master just now

Revert

1. 팀장이 자기 소유의 repo를 만든다
2. clone 하여 약간의 작업 후 add, commit, push
3. notice 받은 팀원은 fork 하여 자신의 소유가 된 repo를 clone
4. 작업할 내용을 미리 issue 등록
4-1. or 팀장이 강제 issue 생성 후 작업지시
5. `$ git remote add pmorigin {pm의 repo 주소}` 하여 미리 등록
6. feature branch 생성 후 작업, add, commit(with issue no)
7. master로 merge 한 후, 나의 master로 push
8. pull request 생성
9. 팀장은 확인 후 merge(conflict, file change 확인 필수)

volvocars main page clone with git flow

1. role 분배(40분안에 클론하려면 어떻게 역할을 나눠야 할까)
2. 위의 과정 반복

continuous pull

continuous pull

```
$ git remote add upstream https://github.com/anotheruser/original-repo.git
```

```
$ git fetch upstream
```

```
$ git merge upstream/master
```


How to move files

Don't

```
$ mv style.css static/css
```

-> deleted:

-> untracked files:

Do

```
$ git mv style.css static/css
```

-> renamed:

Issue & Projects

Issue: 프로젝트, 레포와 관계된 모든 해야할 일과 버그, 개선사항 등을 기록

Projects: 해야할 일의 진도에 따른 구성과 우선순위 지정

Issue(1)

Created Sample Issue #3



ulgoon opened this issue 29 seconds ago · 0 comments



Write

Preview

H

We need to make issue for sample

TODO:

- [] #1

- [] #2

Attach files by dragging & dropping, selecting or pasting them.

Issue(2)

Created Sample Issue #3



ulgoon opened this issue 1 minute ago · 0 comments



ulgoon commented 1 minute ago · edited ▾

We need to make issue for sample

TODO:

☐ #1

☐ #2

Issue(3-1)

Assignees



 ulgoon


Labels



enhancement

Projects



 backend

Awaiting triage ▼

Milestone



No milestone

Linked pull requests



Successfully merging a pull request may close this issue.

None yet

Issue(3-2)

- Assignees: 이 이슈에 대한 책임인원
- Labels: 이슈의 종류
- Projects: 이슈를 배당할 프로젝트
- Milestone: 이슈에 해당하는 중요 시점 지정

Projects

Projects(2)

backend

Updated on Mar 16

Filter cards

+ Add cards

Fullscreen

Menu

1 Backlog

! Create Sample Issue

0 of 2

#3 opened by ulgoon

enhancement

0 TODO

0 Doing

0 Review

1 Done

! Project init

#2 opened by ulgoon

enhancement