

Git 길라잡이

효과적인 협업을 위해

Daeseong mun

Git practice

Git practice setting

- git init git 저장소 생성

```
daeseong ~/projects mkdir git-practice 127 ↵
daeseong ~/projects cd git-practice ✓
daeseong ~/projects/git-practice git init ✓
Initialized empty Git repository in /Users/daeseong/projects/git-practice/.git/
daeseong ~/projects/git-practice master echo "apple" > apple.txt ✓
daeseong ~/projects/git-practice master ? ehco "banana" > banana.txt
zsh: command not found: ehco
daeseong ~/projects/git-practice master ? echo "banana" > banana.txt
daeseong ~/projects/git-practice master ? ls ✓
apple.txt banana.txt
daeseong ~/projects/git-practice master ? cat banana.txt ✓
banana
```

Git practice

Git practice setting

- git status
- commit 되지 않음
- 만들어졌다는 것만 알 수 있음

```
daeseong@manadaeseong: ~/projects/git-practice master ? git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    apple.txt
    banana.txt

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

Git practice

Git practice setting

- git add -A
 - 변경된 모든 파일 추가
- git status
 - new file 추가된 것을 알 수 있음
- git commit ~
 - 변경사항에 대해 적재

```
daeseong ~/projects/git-practice master ? git add -A
daeseong ~/projects/git-practice master + git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   apple.txt
    new file:   banana.txt

daeseong ~/projects/git-practice master + git commit -m "First Commit"
[master (root-commit) 310fb1a] First Commit
2 files changed, 2 insertions(+)
create mode 100644 apple.txt
create mode 100644 banana.txt
```

Git practice

Git practice setting

- apple 삭제
- mango 추가
- git status

```
daeseong ~/projects/git-practice master ? echo "mango" > mango.txt
daeseong ~/projects/git-practice master • ? git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    deleted:    apple.txt
    modified:   banana.txt

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

no changes added to commit (use "git add" and/or "git commit -a")
```

Git practice

Git practice setting

- git log

```
commit 2de0208944b68a1ffa5ad2442f3fe3a856195101 (HEAD -> master)
```

```
Author: mdjunioor <mmdsds@u.sogang.ac.kr>
```

```
Date: Sun May 24 23:30:32 2020 +0900
```

```
ADD MODIFY DELETE
```

```
commit b00fcd20786aa2de7178e1cbde6033de19e51c6f
```

```
Author: mdjunioor <mmdsds@u.sogang.ac.kr>
```

```
Date: Sun May 24 23:27:35 2020 +0900
```

```
ADD orange
```

```
commit 310fb1a501f4829de031f1175caea3ae815c20c4
```

```
Author: mdjunioor <mmdsds@u.sogang.ac.kr>
```

```
Date: Sun May 24 23:21:57 2020 +0900
```

Git practice

Git practice reset

- git reset b00fcd —hard
 - 파괴적인 작업

```
commit 2de0208944b68a1ffa5ad2442f3fe3a856195101 (HEAD -> master)
```

```
Author: mdjunioor <mmdsds@u.sogang.ac.kr>
```

```
Date: Sun May 24 23:30:32 2020 +0900
```

```
ADD MODIFY DELETE
```

```
commit b00fcd20786aa2de7178e1cbde6033de19e51c6f
```

```
Author: mdjunioor <mmdsds@u.sogang.ac.kr>
```

```
Date: Sun May 24 23:27:35 2020 +0900
```

```
ADD orange
```

```
commit 310fb1a501f4829de031f1175caea3ae815c20c4
```

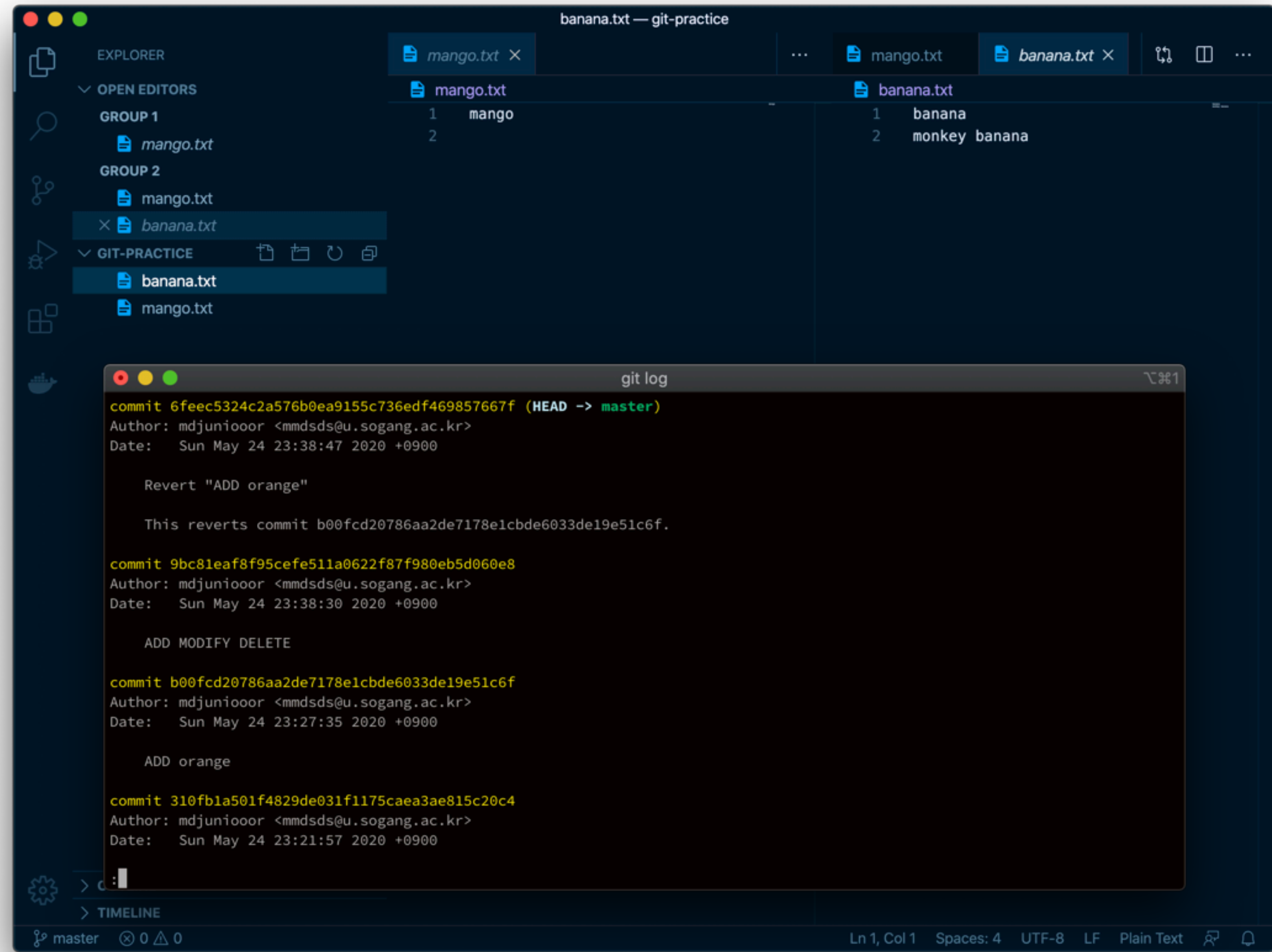
```
Author: mdjunioor <mmdsds@u.sogang.ac.kr>
```

```
Date: Sun May 24 23:21:57 2020 +0900
```


Git practice

Git practice revert

- git revert b00fcd
- 지워지지 않음



The screenshot shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left shows a project named 'GIT-PRACTICE' with files 'mango.txt' and 'banana.txt'. The 'banana.txt' file is selected. The main editor area shows two files: 'mango.txt' with content '1 mango' and '2', and 'banana.txt' with content '1 banana' and '2 monkey banana'. A terminal window titled 'git log' is open in the foreground, displaying the commit history. The log shows a revert of commit 'b00fcd20786aa2de7178e1cbde6033de19e51c6f' (HEAD -> master) by 'mdjuniooor' on 'Sun May 24 23:38:47 2020 +0900'. The revert message is 'Revert "ADD orange"'. The log also shows the original commit 'b00fcd20786aa2de7178e1cbde6033de19e51c6f' with the message 'ADD orange' and the commit '310fb1a501f4829de031f1175caea3ae815c20c4' with the message 'ADD MODIFY DELETE'.

```
git log
commit 6feec5324c2a576b0ea9155c736edf469857667f (HEAD -> master)
Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
Date: Sun May 24 23:38:47 2020 +0900

    Revert "ADD orange"

    This reverts commit b00fcd20786aa2de7178e1cbde6033de19e51c6f.

commit 9bc81eaf8f95cefe511a0622f87f980eb5d060e8
Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
Date: Sun May 24 23:38:30 2020 +0900

    ADD MODIFY DELETE

commit b00fcd20786aa2de7178e1cbde6033de19e51c6f
Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
Date: Sun May 24 23:27:35 2020 +0900

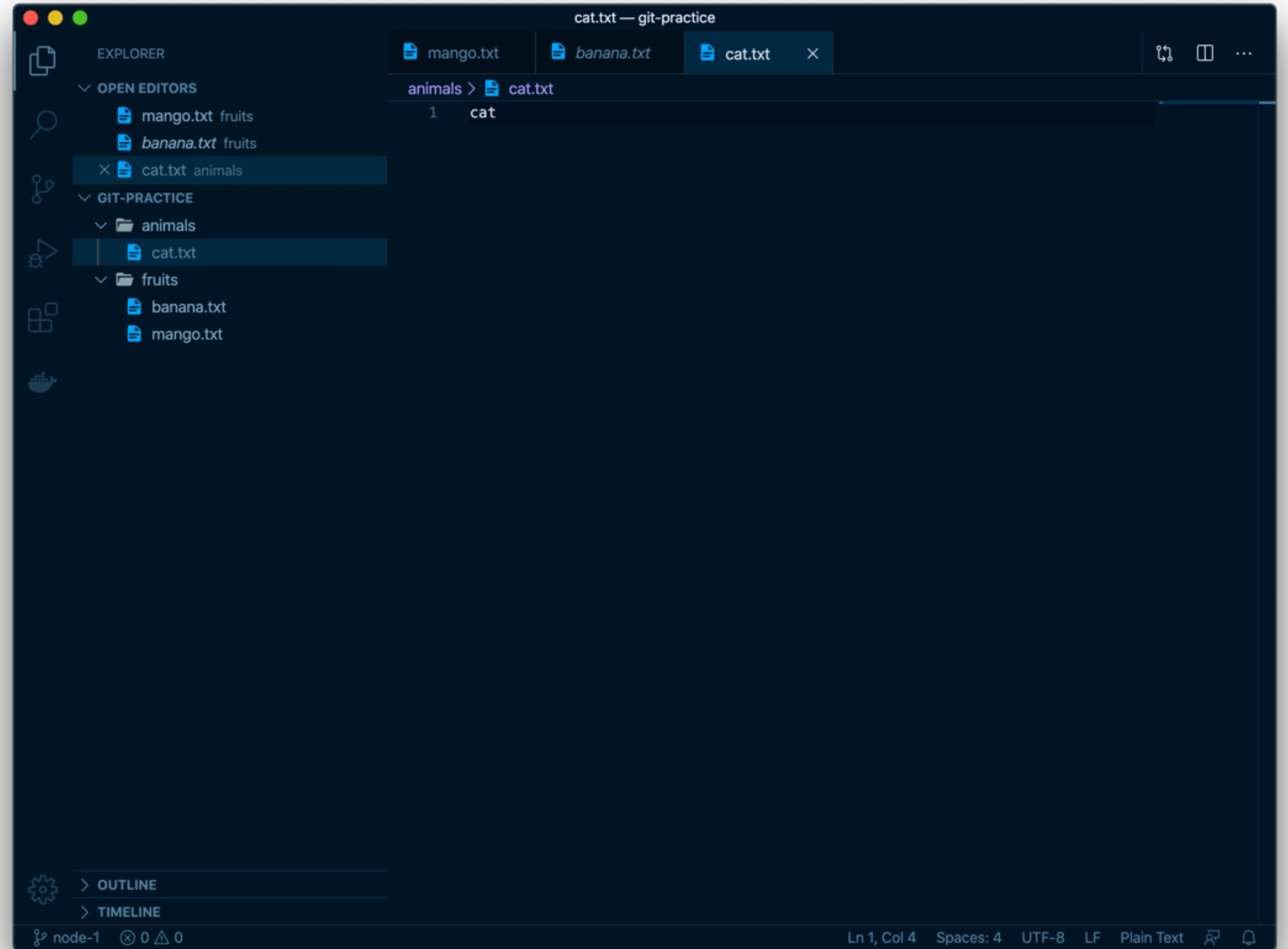
    ADD orange

commit 310fb1a501f4829de031f1175caea3ae815c20c4
Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
Date: Sun May 24 23:21:57 2020 +0900
```


Git practice

Git practice branch

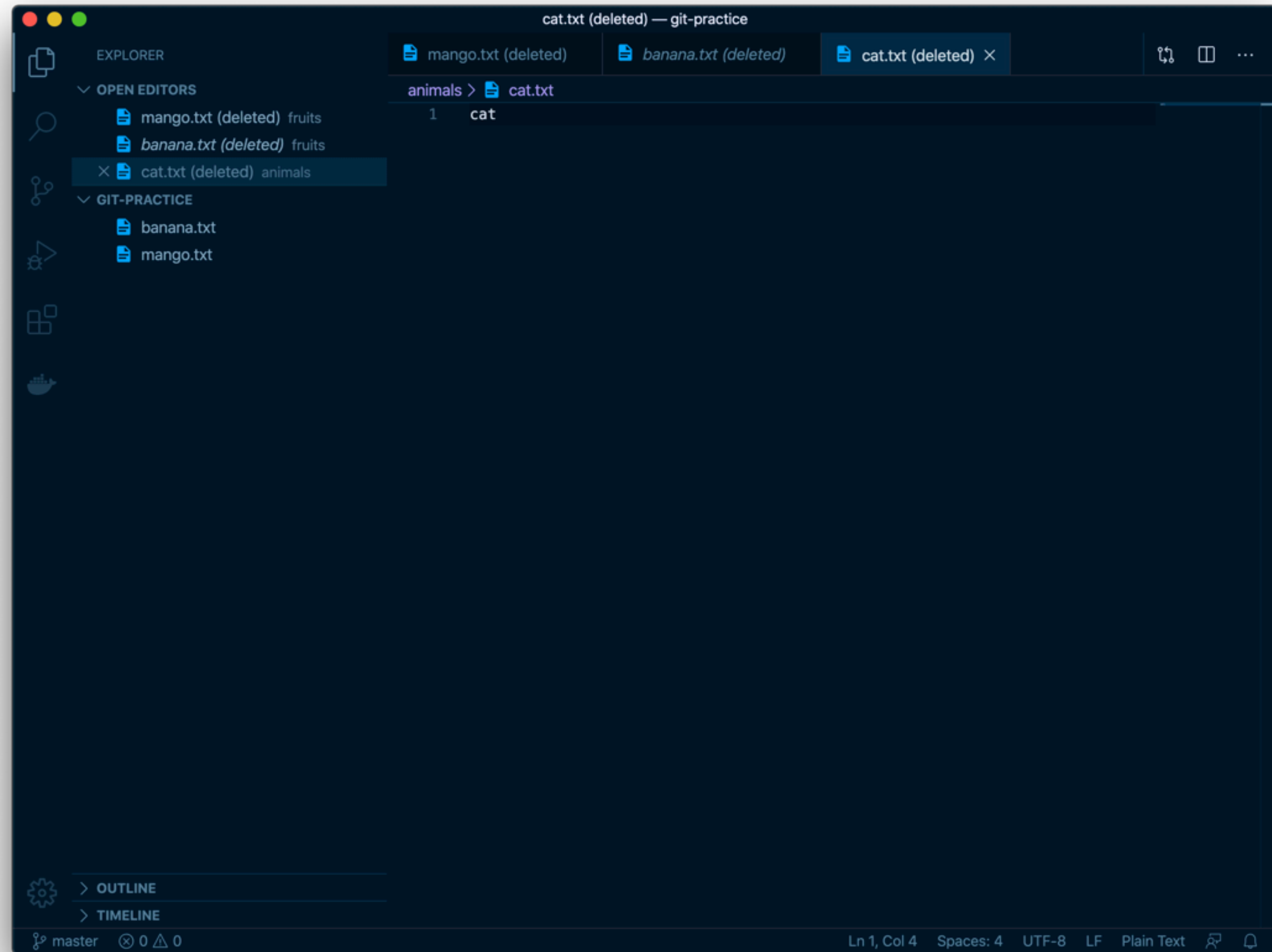
- git branch node1
- git branch (branch 확인)
- git checkout node1
 - node1 브랜치로 이동



Git practice

Git practice branch

- git checkout master
 - master로 이동

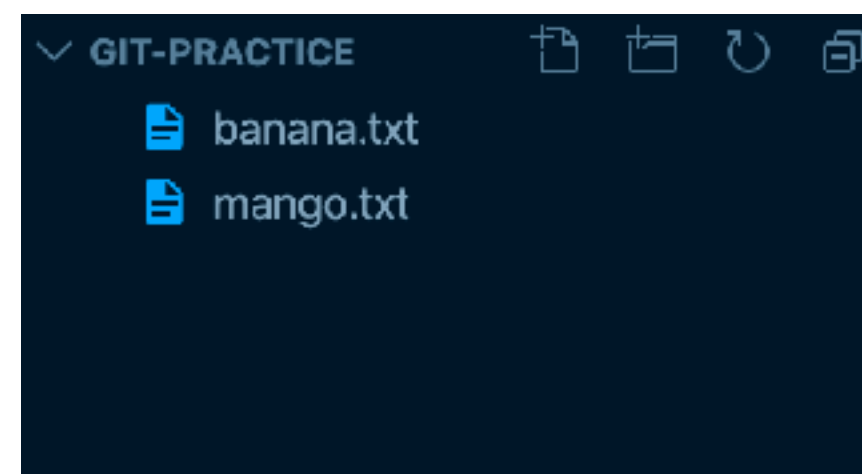


Git practice

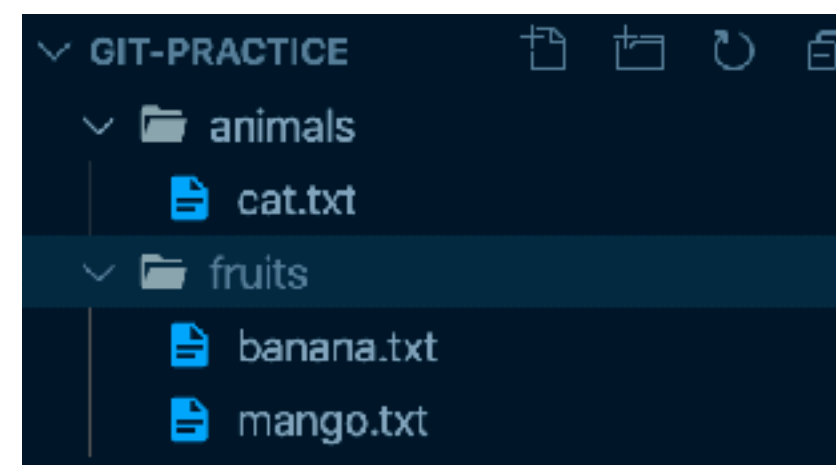
Git practice branch

- git branch node-2

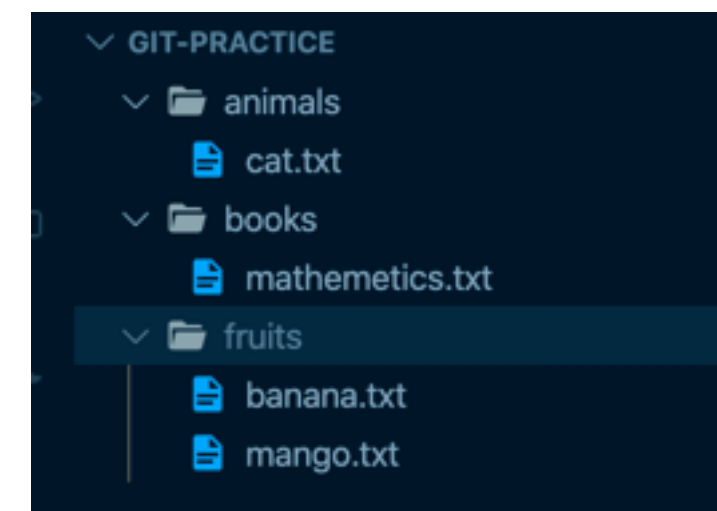
master



node-1

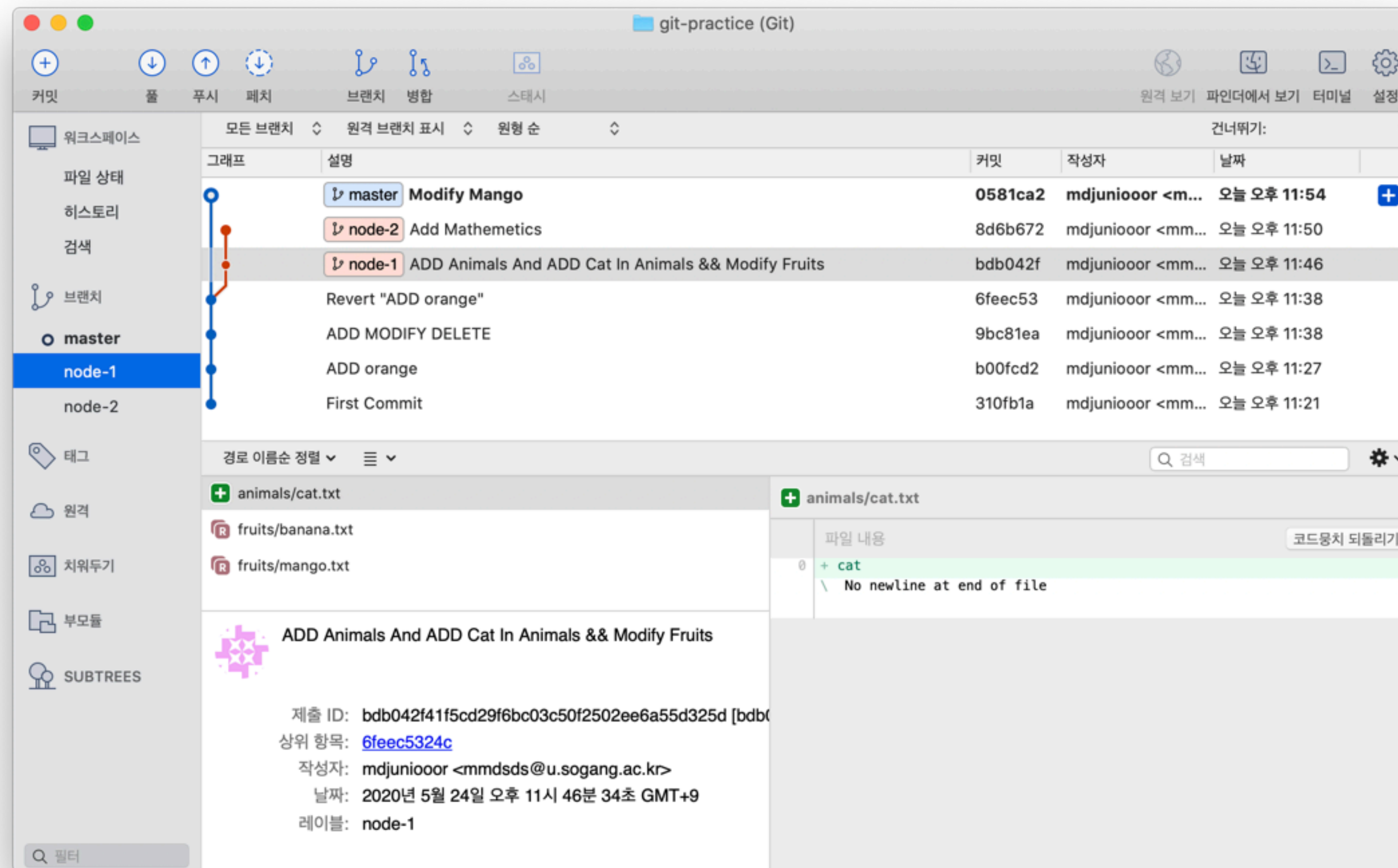


node-2



Git practice

Git practice branch



Git practice

Git practice merge

```
daeseong@mundaeseong-ui-MacBookPro: ~/projects/git-practice
-u, --update            update tracked files
--renormalize           renormalize EOL of tracked files (implies -u)
-N, --intent-to-add     record only the fact that the path will be added later
-A, --all              add changes from all tracked and untracked files
--ignore-removal        ignore paths removed in the working tree (same as --no-all)
--refresh              don't add, only refresh the index
--ignore-errors         just skip files which cannot be added because of errors
--ignore-missing        check if - even missing - files are ignored in dry run
--chmod (+|-)x         override the executable bit of the listed files

daeseong ~/projects/git-practice master + git commit -m "Modify Mango"
[master 0581ca2] Modify Mango
1 file changed, 1 insertion(+)
daeseong ~/projects/git-practice master git merge node-2
Merge made by the 'recursive' strategy.
 animals/cat.txt      | 1 +
 books/mathematics.txt | 1 +
 banana.txt => fruits/banana.txt | 0
 mango.txt => fruits/mango.txt   | 0
4 files changed, 2 insertions(+)
create mode 100644 animals/cat.txt
create mode 100644 books/mathematics.txt
rename banana.txt => fruits/banana.txt (100%)
rename mango.txt => fruits/mango.txt (100%)
daeseong ~/projects/git-practice master git log --graph --all --decorate
```

```
git log --graph --all --decorate
* commit 3e8ffa7a01166f787c1d72080b910dd1b44ab39b (HEAD -> master)
| Merge: 0581ca2 8d6b672
| Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
| Date: Sun May 24 23:56:36 2020 +0900
|
| Merge branch 'node-2'
|
* commit 8d6b672e302bea4c6158e4371d4978466212f801 (node-2)
| Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
| Date: Sun May 24 23:50:15 2020 +0900
|
| Add Mathematics
|
* commit bdb042f41f5cd29f6bc03c50f2502ee6a55d325d (node-1)
| Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
| Date: Sun May 24 23:46:34 2020 +0900
|
| ADD Animals And ADD Cat In Animals && Modify Fruits
|
* commit 0581ca248c708801e4980c1e23d2e302588dbfc1
| Author: mdjuniooor <mmdsds@u.sogang.ac.kr>
| Date: Sun May 24 23:54:06 2020 +0900
|
| Modify Mango
|
```


Git practice

Git practice merge

```
git log --graph --all --decorate
* commit 094b273542b9ec76847835cbd2345dcd3894b12d (HEAD -> master)
  Merge: 6f72c78 8d6b672
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:01:57 2020 +0900

    Merge branch 'node-2'

* commit 8d6b672e302bea4c6158e4371c4978466212f961 (node-2)
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:50:15 2020 +0900

    Add Mathematics

* commit 6f72c797346c46b407f2559b92978c939b76779
  Merge: 268ca8c bdb042f
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:01:30 2020 +0900

    Merge branch 'node-1'

* commit bdb042f41f5cd29f6bc03c50f2502ee6a55d325d (node-1)
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:46:34 2020 +0900

    ADD Animals And ADD Cat In Animals && Modify Fruits

* commit 268ca8c638990c3fe7ffc0131c57f63673d02595
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:00:52 2020 +0900

    Revert "Modify Mango"

    This reverts commit 0581ca248c708801e4980c1e23d2e302588dbfc1.

* commit 58cb56ad9c7b67ee15683461556c902e60289b4c
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:00:18 2020 +0900

    Revert "Revert "Modify Mango""

    This reverts commit f1cb9e4eddf1e820009ca208685355d6c2fd48a.

* commit ab4dbd7c911915006d425105798d70074e237419
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:00:04 2020 +0900

    Revert "Modify Mango"

    This reverts commit 0581ca248c708801e4980c1e23d2e302588dbfc1.

* commit 6ad9ecb0481ae2a116e934cccfb6c7c2f71ea7cb
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:50:15 2020 +0900

    Add Mathematics
```

Applying: Revert "Modify Mango"
daeseong ~/projects/git-practice master git log --graph --all --decorate

```
git log --graph --all --decorate
* commit d5c329a53bace5ed0bdcfcf2f3169c19f222d6e6 (HEAD -> master)
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:00:52 2020 +0900

    Revert "Modify Mango"

    This reverts commit 0581ca248c708801e4980c1e23d2e302588dbfc1.

* commit 32e47e7683aa24f6c5acbf1ab567a4a10603ef6
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:00:18 2020 +0900

    Revert "Revert "Modify Mango""

    This reverts commit f1cb9e4eddf1e820009ca208685355d6c2fd48a.

* commit e723a3fc9c3bc0a345518f6b9145fdf9209d3cc2
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Mon May 25 00:00:04 2020 +0900

    Revert "Modify Mango"

    This reverts commit 0581ca248c708801e4980c1e23d2e302588dbfc1.

* commit caacba64a5dd0203fe931d8c9d6bc108be075370
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:54:06 2020 +0900

    Modify Mango

* commit 8d6b672e302bea4c6158e4371c4978466212f961 (node-2)
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:50:15 2020 +0900

    Add Mathematics

* commit bdb042f41f5cd29f6bc03c50f2502ee6a55d325d (node-1)
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:46:34 2020 +0900

    ADD Animals And ADD Cat In Animals && Modify Fruits

* commit 6feec5324c2a576b0ea9155c736ed469857667f
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:38:47 2020 +0900

    Revert "ADD orange"

    This reverts commit b00fcd20786aa2de7178e1cbbde6033de19e51c6f.

* commit 9bc81eaf8f95cef511a0622f87f980ab5d050e8
  Author: mdjunioor <mmdsds@sogang.ac.kr>
  Date: Sun May 24 23:38:30 2020 +0900

    ADD MODIFY DELETE
```