# Git-1 (\*Week6\_lab\*)

# Git

A source version control system that allows you to keep track of the versions of the source code you write as you progress through development.

\*\*\*Version Control\*\*\* : Version control and branching exist in git.

1. \*\*Version Control\*\* : A system that records file changes over time and allows you to retrieve a version of a file at a specific point in time.

![Version control img](https://www.webinerds.com/hs-fs/hubfs/Imported\_Blog\_Media/A-Brief-Timeline-of-Version-Control-Systems-03-770.png?width=770&height=363&name=A-Brief-Timeline-of-Version-Control-Systems-03-770.png)

## \*Three ways to version control\*

\* Local

\* Centralize

\* \*\*Distributed\*\*

2. \*\*Branch\*\* : Branches are necessary when you want to work on multiple tasks independently.

![branch img]( https://woowabros.github.io/img/2017-10-30/git-flow\_overall\_graph.png)

\*\*\*Collaboration\*\*\* : You can view other people's work and edit history. You can also set rules for collaborating with each other.

\* Git configurations are stored in three levels

1. System level : --system option. Affects all uses and repositories on the system(administrative)

2. Global(user) level: --global option. Affects all repositories of a current user

3. Local level: --local option. Specific to the current repository

```sh

$ git config –list

credential.helper=osxkeychain

[user.email=donghyeon350@gmail.com](mailto:user.email=donghyeon350@gmail.com)

```

```sh

$ git config --list --show-origin  
file:/usr/local/etc/gitconfig credential.helper=osxkeychain

file:/Users/admindonghyeon/.gitconfig [user.email=donghyeon350@gmail.com](mailto:user.email=donghyeon350@gmail.com)

```

\* Initializing a Repository in an Exiting Directory

```sh

$ cd /Users/admindonghyeon/Documents/open\_sorce\_sw

$ git init

```

```sh  
$ git status

현재 브랜치 master

아직 커밋이 없습니다

추적하지 않는 파일:

(커밋할 사항에 포함하려면 "git add <파일>..."을 사용하십시오)

.DS\_Store

OpenSorce Linux CLI.docx

Photo/

Week 6\_Lab\_Git.docx

command\_history.txt

file\_list.txt

lab/

myscript.sh

pdf/

sorted\_word.txt

word.txt

~$ek 6\_Lab\_Git.docx

커밋할 사항을 추가하지 않았지만 추적하지 않는 파일이 있습니다 (추적하려면 "git

add"를 사용하십시오))

```

\* git add [file\_name]

```sh

$ git add file\_list.txt

$ git satus

현재 브랜치 master

아직 커밋이 없습니다

커밋할 변경 사항:

(스테이지 해제하려면 "git rm --cached <파일>..."을 사용하십시오)

새 파일: file\_list.txt

추적하지 않는 파일:

(커밋할 사항에 포함하려면 "git add <파일>..."을 사용하십시오)

.DS\_Store

OpenSorce Linux CLI.docx

Photo/

Week 6\_Lab\_Git.docx

command\_history.txt

lab/

myscript.sh

pdf/

sorted\_word.txt

word.txt

~$ek 6\_Lab\_Git.docx

```

---

\* \*\*\*nano file\_list.txt\*\*\* : You can modify the file in a terminal window.

\* \*\*\*git rm ---cached[file name]\*\*\* : You can remove files to commit.

\* \*\*\*Ignoring a file \*\*\* : .gitgnore file

\* \*\*\*Change branch name\*\*\*

```sh

$ git branch

\* master

$ git branch -m master main

$ git branch

\* main

```

\* Commit  
```sh

$ git commit -m "commit mesagge"

[main (최상위-커밋) 240870e] commit mesagge

1 file changed, 6 insertions(+)

create mode 100644 file\_list.txt

```