

SETUP

```
Git config --global user.name "[firstname Last name]"
```

설명: set a name that is identifiable for credit when review version history

```
git config --global user.email "[valid-email]"
```

설명: set an email address that will be associated with each history marker

```
git config --global color.ui auto
```

설명: set automatic command line coloring for Git for easy reviewing

SETUP & INIT

```
git init
```

설명: initialize an existing directory as a Git repository

```
git clone [url]
```

설명: retrieve an entire repository from a hosted location via URL

STAGE & SNAPSHOT

```
git status
```

설명: show modified files in working directory, staged for your next commit

```
git add [file]
```

설명: add a file as it looks now to your next commit (stage)

```
git reset [file]
```

설명: unstage a file while retaining the changes in working directory

```
git diff diff
```

설명: of what is changed but not staged

```
git diff --staged
```

설명: diff of what is staged but not yet committed

```
git commit -m "[descriptive message]"
```

설명: commit your staged content as a new commit snapshot

BRANCH & MERGE

```
git branch
```

설명: list your branches. a * will appear next to the currently active branch

```
git branch [branch-name]
```

설명: create a new branch at the current commit

```
git checkout
```

설명: switch to another branch and check it out into your working directory

```
git merge [branch]
```

설명: merge the specified branch's history into the current one

```
git log
```

설명: show all commits in the current branch's history

Inspect & Compare

git log

설명 : show the commit history for the currently active branch

git log branchB..branchA

설명 : show the commits on branchA that are not on branchB

git log --follow [file]

설명 : show the commits that changed file, even across renames

git diff branchB...branchA

설명 : show the diff of what is in branchA that is not in branchB

git show [SHA]

설명 : show any object in Git in human-readable format

Tracking path Changes

git rm [file]

설명 : delete the file from project and stage the removal for commit

git mv [existing-path] [new-path]

설명 : change an existing file path and stage the move

git log --stat -M

설명 : show all commit logs with indication of any paths that moved

Ignoring patterns

logs/
*.notes
pattern*/

설명 : Save a file with desired patterns as .gitignore with either direct string matches or wildcard globs.

git config --global core.excludesfile [file]

설명 : system wide ignore pattern for all local repositories

Share & update

git remote add [alias] [url]

설명 : add a git URL as an alias

git fetch [alias]

설명 : fetch down all the branches from that Git remote

git merge [alias]/[branch]

설명 : merge a remote branch into your current branch to bring it up to date

git push [alias] [branch]

설명 : Transmit local branch commits to the remote repository branch

git pull

설명 : fetch and merge any commits from the tracking remote branch

Rewrite history

git rebase [branch]

설명 : apply any commits of current branch ahead of specified one

git reset --hard [commit]

설명 : clear staging area, rewrite working tree from specified commit

Temporary commits

git stash

설명 : Save modified and staged changes

git stash list

설명 : list stack-order of stashed file changes

git stash pop

설명 : write working from top of stash stack

git stash drop

설명 : discard the changes from top of stash stack