

# Git

- description : GIT
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[GitHub](#)  
[GitLab](#)  
[GitBash](#)

## VCS (Version Control System)

Centralized Version Control: CVS, Subversion, Perforce \\  
 Distributed Version Control: git, mercurial, darcs \\  
 Server : github, bitbucket \\

## Git

- Linux Torvalds 2005
- , , , 가 , 가 ,
- , ( )  
 ◦ by ( <https://www.youtube.com/watch?v=Z9dvM7qgN9s> , <https://www.youtube.com/watch?v=IPrxhA4PLoA> )

```

1. git
   git OPTION
   https://git-scm.com/docs

2. git client
   Github Desktop - Github
   Sourcetree -
   GitKraken
   Git bash - Terminal

3. Download
   https://git-scm.com/download/

4.
   .gitconfig ( )
   $> git config --list
   $> git config --global -e // -e -> edit
  
```

```
$> git config --global core.editor "code --wait" // git editor ,
--wait -> foreground
$> git config --global user.name "Foo"
$> git config --global user.email "Bar@repia.com"

$> git config user.name
Foo
$> git config user.email
Bar@repia.com

$> git config core.autocrlf true // windows
$> git config core.autocrlf input // macOS

$> git status
$> git config --global alias.st status // status alias
$> git st
$> git --h
```

## 5.

```
$> cd projects
$> mkdir GitFolder
$> cd ${GitFolder}
$> git init // 1. , .git , master branch , .git

$> git config -h //
$> git status -h
$> git status -s // short
```

## 6. git workflow

```
working directory
  untracked (git )
  -> git add *
  -> git rm --cached *

  tracked (git )
  unmodified
  modified

<- checkout
-> git add

staging area

-> commit

.git directory
git history

-> push
<- pull
```

```

remote

7. ignore
tracking
$> echo *.log >.gitignoro

8. diff
$> git diff
diff --git a/c.txt b/c.txt
index a042389..f5be8ac 100644
--- a/c.txt
--- b/c.txt
@@ -1 +1,2 @@          // -          , +1
                        // stated, cached

hello world!
+add
(END)

$> git config --global -e
[diff]
  tool = vscode
[difftool "vscode"]
  cmd = code --wait --diff $LOCAL $REMOTE // 가
$> git difftool // vscode          가

9. commit
$> git commit -m "...." // -m -> message
$> git commit -am "...." // -a -> all, add

commit message
  commit 0, commit1, commit2, ... (X)
  Initialise project, Add LoginService module, Add UserRepository module,
Add Welcome page, Add About page, Add light theme, ...

, 가 , , ....

10. log
$> git log

11. source tree
Hunk
Line

x
macOS: iTerm21
Windows: cmdr

PowerShell
$> code . (          ) //

```

```
$> open . (macOS )
$> explorer . ( 가 )
```

- [\[Github\] Windows Git \( \)](#)

## Tip

URL gitbash

```
// git
//
$> git remote -v
# View existing remotes
origin https://github.com/user/sample.git (fetch)
origin https://github.com/user/sample.git (push)
//
$> git remote set-url origin https://github.com/user/new.git
//
$> git remote -v
# View existing remotes
origin https://github.com/user/new.git (fetch)
origin https://github.com/user/new.git (push)
$> git remote -v
```

[Git Repository](#)  
git remote get-url : url .

## Troubleshooting

Checkout conflict with files:

[Checkout conflict with files: \(ProjectName/source/file...\) Eclipse git pull , The current branch is not configured for pull](#)  
[Eclipse git pull , The current branch is not configured for pull](#)

remote: HTTP Basic: Access denied

git bash pull

```
$> git config --local --unset credential.helper
```

```
$> git config --global --unset credential.helper  
$> git config --system --unset credential.helper  
  
//
```

## Ref

- [URL](#)
  - [Git-workflow pdf](#)
- , [git](#), [heon](#)

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