

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=lPrxhA4PLoA>)

```
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 ${GitFoler}  
$> 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  
  
stating area  
  
-> commit  
  
.git directgory  
git history  
  
-> push  
<- pull
```

```
remote

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

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: cmdver

PowerShell
$> code . ( ) //
```

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

Tip

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

Ref

, git

From:
<http://rwiki.requia.com/> -
2023.12



Permanent link:
<http://rwiki.requia.com/doku.php?id=wiki:3party:scm:git&rev=1630317235>

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