

Git...?

git



Git...?











is currently the most popular implementation of a distributed version control system.

우리가 가지고 있는 문서의 버전을 (분산) 관리하는 시스템

- Project1.pptx
- 🔁 Project2.pptx
- Project3.pptx
- Project4.pptx
- Project5.pptx
- Project6.pptx
- Project final.pptx
- Project final-1.pptx
- Project final -2.pptx
 Project final final fin Project final final.pptx
 - Project final final final.pptx

Project 진짜 final.pptx

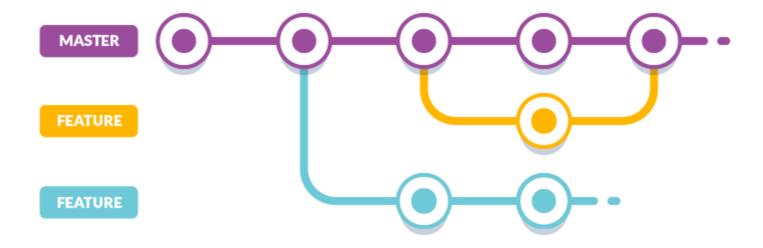
같은 이름으로 관리한다면...?

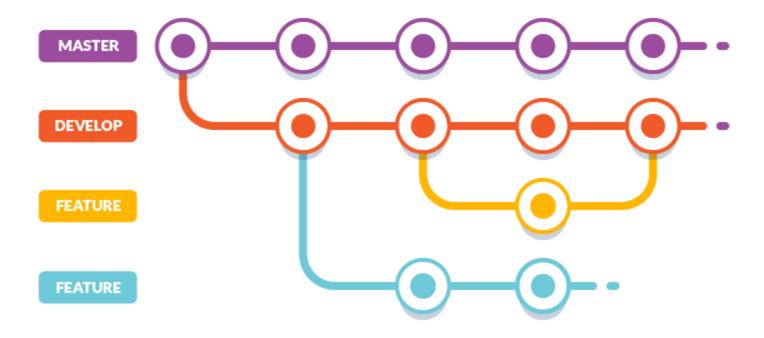
- Project.pptx 2017.06.01 17:00:00
- 📴 Project.pptx ……
- Project.pptx …
- Project.pptx
- Project.pptx
- Project.pptx
- Project.pptx
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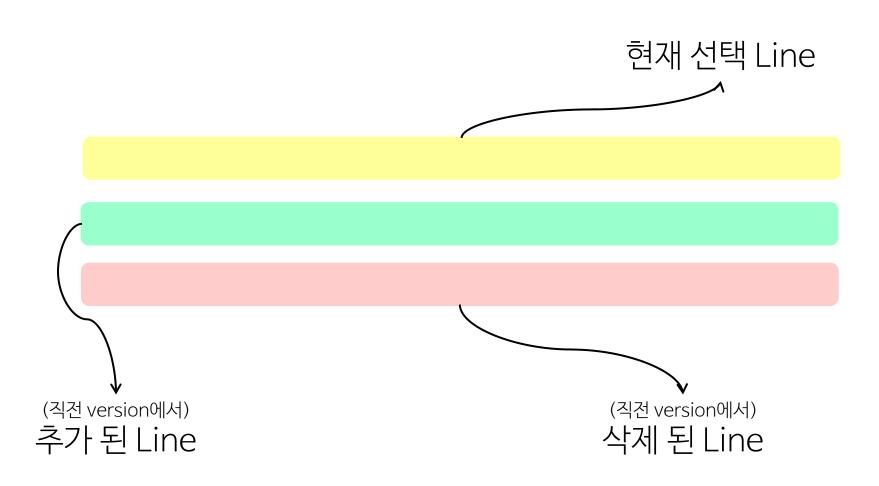
시간의 흐름에 따라 표현







어떻게 내용이 관리 될까?



```
94
            +- (RACSignal *)enqueueRequest:(NSURLRequest *)request fetchAllPages:(BOOL)fetchAllPages;
       95
           +
 82
       96
             // Enqueues a request to fetch information about the current user by accessing
 83
             // a path relative to the user object.
       97
 84
       98
             11
   岩
            @@ -241,11 +255,13 @@ - (id)initWithServer:(OCTServer *)server {
241
      255
               NSString *userAgent = self.class.userAgent;
242
      256
               if (userAgent != nil) [self setDefaultHeader:@"User-Agent" value:userAgent];
243
      200
244
               self.parameterEncoding = AFJSONParameterEncoding;
245
               [self setDefaultHeader:@"Accept" value:@"application/vnd.qithub.beta+json"];
246
247
               [AFHTTPRequestOperation addAcceptableStatusCodes:[NSIndexSet indexSetWithIndex:OCTClientNotModifiedStatusCode]]
      258
248

    [AFJSONRequestOperation addAcceptableContentTypes:[NSSet setWithObject:@"application/vnd.github.beta+json"]];

      259
               NSString *contentType = [NSString stringWithFormat:@"application/vnd.github.%@+json", OCTClientAPIVersion];
      260
      261
               [self setDefaultHeader:@"Accept" value:contentType];
      262
               [AFJSONRequestOperation addAcceptableContentTypes:[NSSet setWithObject:contentType]];
      263
      264
               self.parameterEncoding = AFJSONParameterEncoding;
249
      265
               [self registerHTTPOperationClass:AFJSONRequestOperation.class];
250
      266
251
      267
```

return self;

이걸 꼭 해야 하는가?

Project 난이도 Git System 난이도 Project 난이도

Git System 난이도 어떻게 사용 되는가?

Command List

Git 주요 개념

-저장소(Repository)
사용자가 변경한 모든 내용을 추적하는 공간.

-작업 트리

저장소를 바라보는 자신의 현재 시점. 소스 코드, 빌드 파일, 단위테스트 등 모든 파일

-커밋(commit)

내 로컬 저장소에 변경 내역을 저장하는 것

-푸시(push)

로컬 저장소의 내용을 서버 저장소에 전송하는 것

-브랜치(Branch)

독립적으로 어떤 작업을 진행하기 위해 분기시키는 것

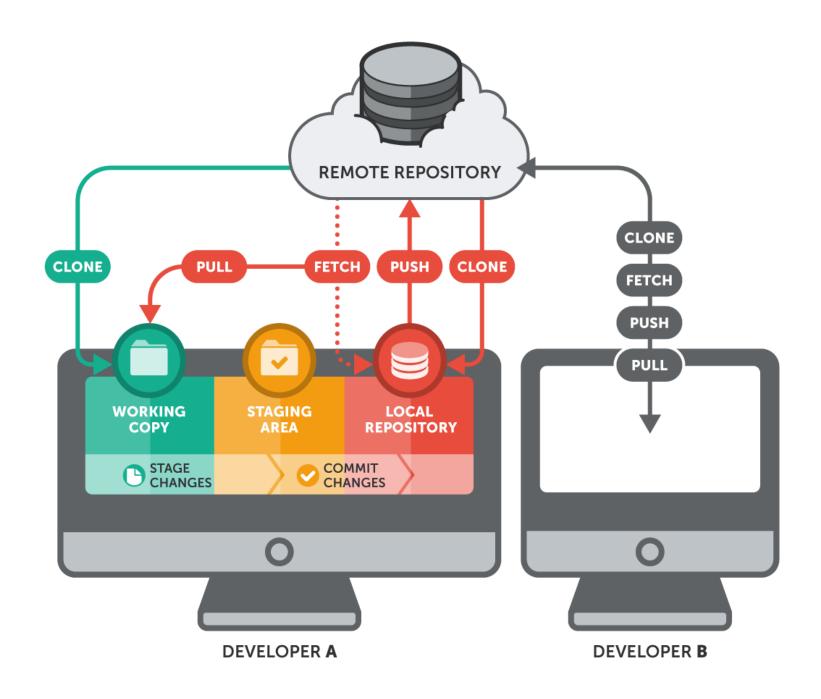
-합치기(Merger) 변기된 브랜치를 합치기 위한 작업.

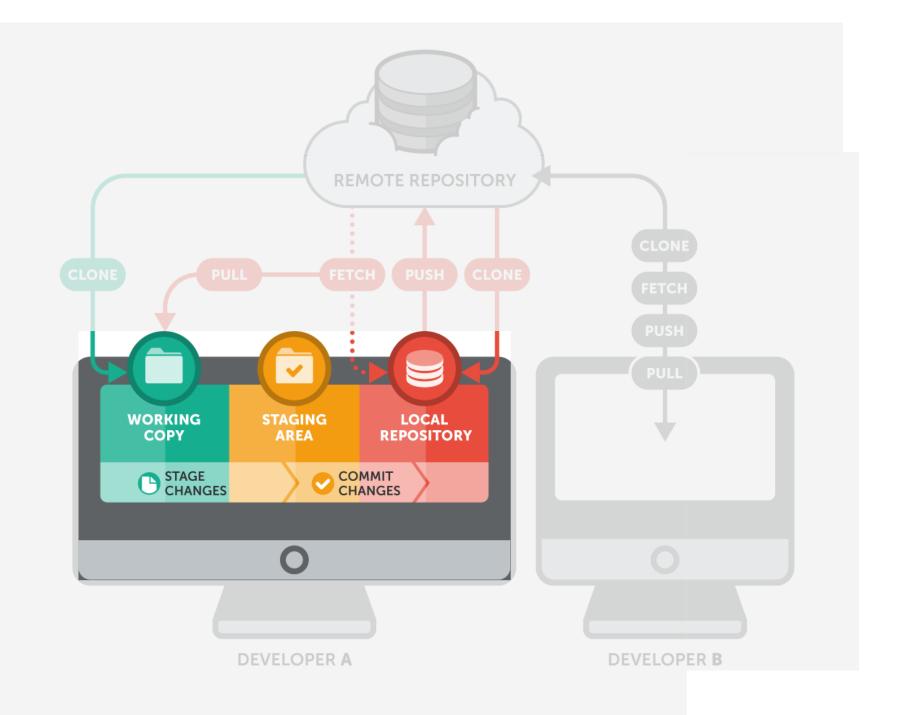
-III式l(fetch)

내 로컬 저장소에 서버 저장소 변경 이력을 다운 받는 것

-풀(pull)

내 소스코드에 로컬 저장소 기록을 변경하는 것





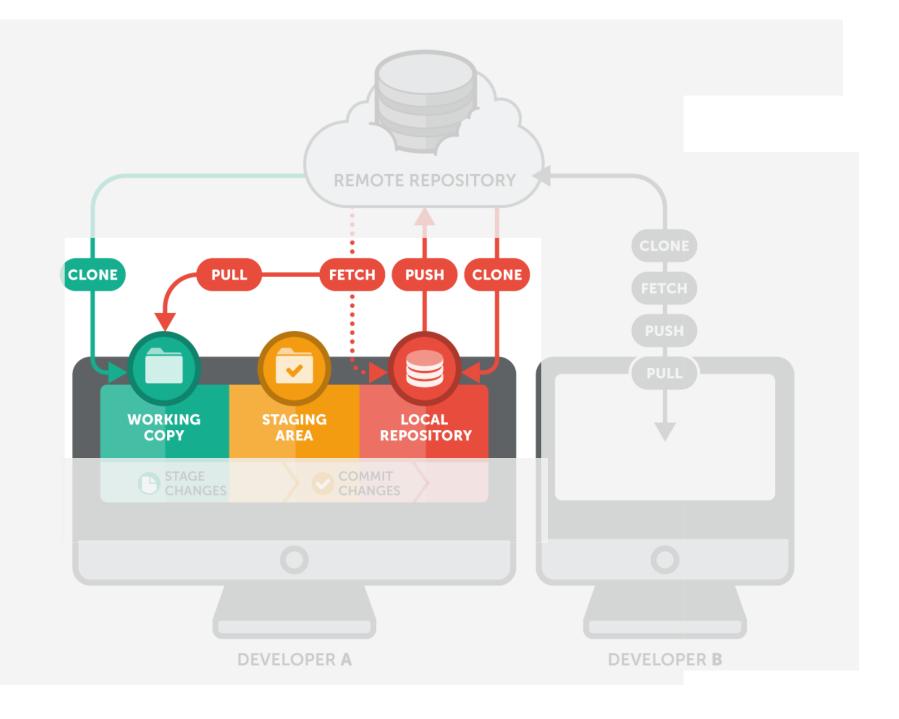
Repository flow

Work Space

Stage Area

Local Repository

Remote Repository



Command flow (local → remote)

Git init

Git add

Git commit

Git push

Command flow (remote → local)

Git clone

Git pull

복제

현재 상태를 가져오기

어떻게 사용하는가?

CLI (Command Line Interface) & GUI (Graphic User Interface)

CLI(Command Line Interface)

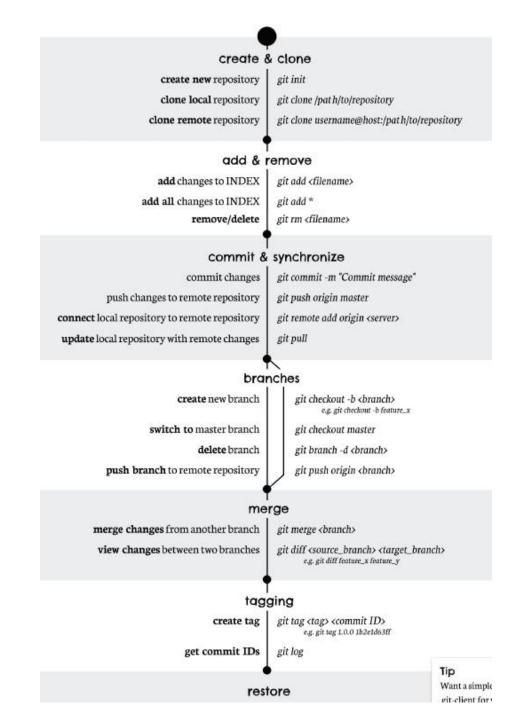
```
student@M5018 MINGW64 /c/dev/workspace (master)
$ git
usage: git [--version] [--help] [-C <path>] [-c name=value]
            [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
            [-p | --paginate | --no-pager] [--no-replace-objects] [--bare]
            [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           <command> [<args>]
These are common Git commands used in various situations:
start a working area (see also: git help tutorial)
              Clone a repository into a new directory
   clone
   init
              Create an empty Git repository or reinitialize an existing one
work on the current change (see also: git help everyday)
              Add file contents to the index
   add
              Move or rename a file, a directory, or a symlink
  reset
              Reset current HEAD to the specified state
              Remove files from the working tree and from the index
   rm
examine the history and state (see also: git help revisions)
   bisect
              Use binary search to find the commit that introduced a bug
              Print lines matching a pattern
   arep
              Show commit logs
   log
              Show various types of objects
   show
              Show the working tree status
   status
grow, mark and tweak your common history
              List, create, or delete branches
   branch
              Switch branches or restore working tree files
   checkout
              Record changes to the repository
   commit
              Show changes between commits, commit and working tree, etc.
   diff
              Join two or more development histories together
   merae
              Reapply commits on top of another base tip
   rebase
              Create, list, delete or verify a tag object signed with GPG
   taq
collaborate (see also: git help workflows)
   fetch
              Download objects and refs from another repository
              Fetch from and integrate with another repository or a local branch
   pull
   push
              Update remote refs along with associated objects
git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>' to read about a specific subcommand or concept.
```

Git init

Git remote add (alias) https://github.com/(id)/(remote_name).git

Git config --global user.name "name" Git config --global user.email "email address"

Git add



GUI (Graphic User Interface) 방식으로 하고 싶다면



Reference

- 누구나 쉽게 이해 할 수 있는 Git 입문 (원숭이도 한다는..)
 https://backlogtool.com/git-guide/kr/
- 생활코딩 Git (GUI) https://opentutorials.org/course/1492
- 생활코딩 지옥에서 온 Git https://opentutorials.org/course/2708
- Git Practice
 http://learnbranch.urigit.com/
- Github Flow https://ujuc.github.io/2015/12/16/git-flow-github-flow-gitlab-flow/
- Why the 'Git' name? https://m.blog.naver.com/PostView.nhn?blogId=onlysilence&logNo= 114191637&proxyReferer=https%3A%2F%2Fwww.google.co.kr%2F

Reference

- Git Workflow https://buddy.works/blog/5-types-of-git-workflows
- Git Setting
 http://insanehong.kr/post/create-repository/
- Git Workflow Diagram https://www.git-tower.com/learn/git/ebook/en/command-line/remote-repositories/introduction