

Git 배우기.

1st class

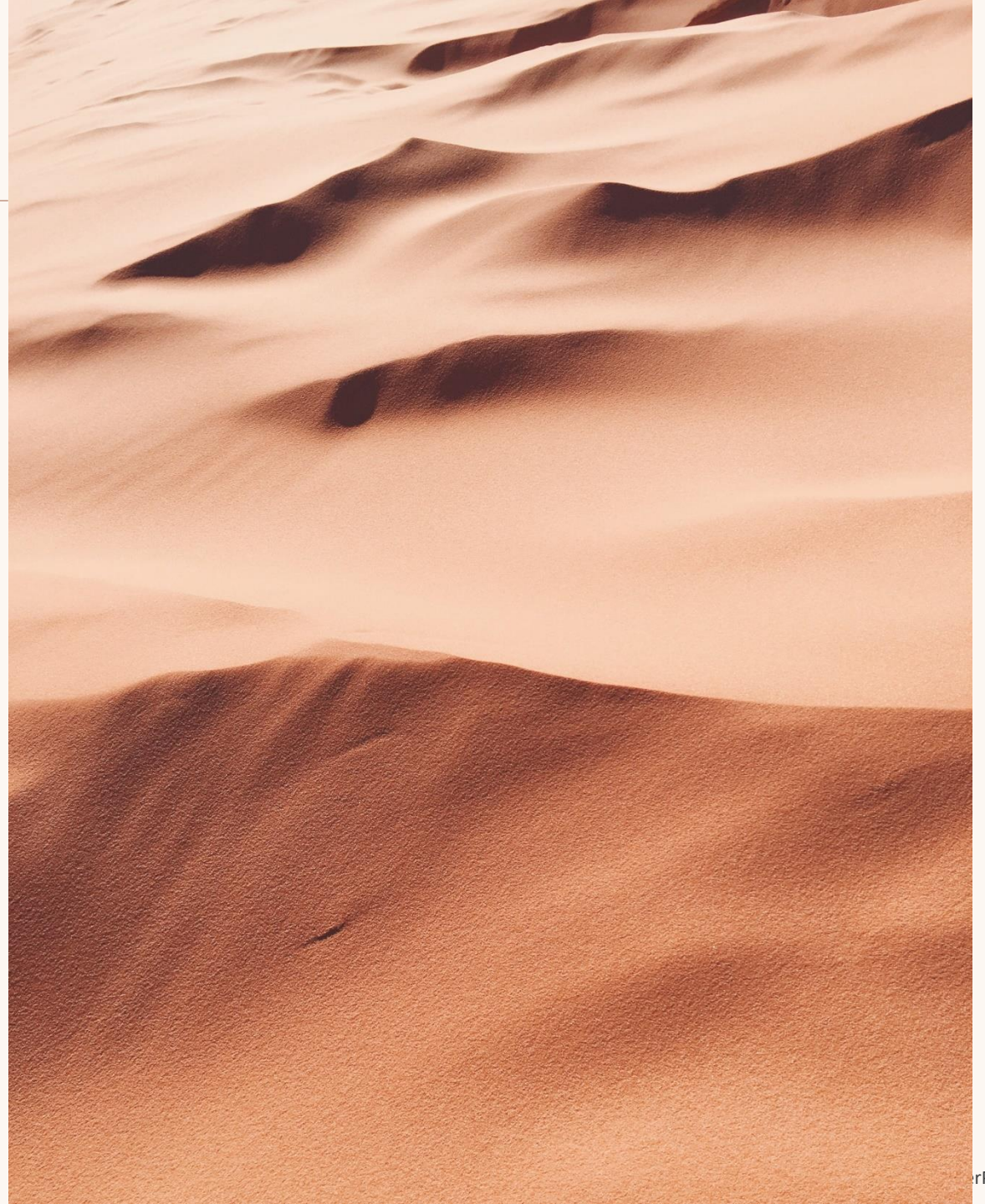
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목차

A table of contents.

1 GIT 설치, 기본 사용

2 GIT 버전 관리하기



GIT 설치, 기본 사용



Git Bash에서 git --version 체크

--퀴즈--

1. 홈 디렉토리로 이동
2. 새 디렉토리 'mine' 만들기
3. 'mine'으로 이동하기
4. 부모 디렉토리로 이동
5. 현재 경로 보기
6. 디렉토리 내용보기 (상세정보 보기, 숨김 파일까지 보기)
7. 하위 디렉토리 'mine' 삭제하기
8. 1.txt 생성하기
9. 1.txt 내용을 터미널에 출력
10. 터미널 창의 내용 지우기
11. 터미널 창 종료

GIT 설치, 기본 사용



GIT 버전 관리하기



git config 설정

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git config --global user.name "chan"
```

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git config --global user.email "miggari123@naver.com"
```

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=chan
user.email=miggari123@naver.com
```

GIT 버전 관리하기



깃 저장소 만들기

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회
$ git init
Initialized empty Git repository in C:/Users/migga/Desktop/AI경진대회/.git/

migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ ls
GIT/ 발표/

migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ ls -al
total 24
drwxr-xr-x 1 migga 197121 0 6월 21 21:28 ./
drwxr-xr-x 1 migga 197121 0 6월 21 21:28 ../
drwxr-xr-x 1 migga 197121 0 6월 21 21:28 .git/
drwxr-xr-x 1 migga 197121 0 6월 21 21:28 GIT/
drwxr-xr-x 1 migga 197121 0 6월 19 17:31 발표/
```

GIT 버전 관리하기



파일을 생성하고, git add

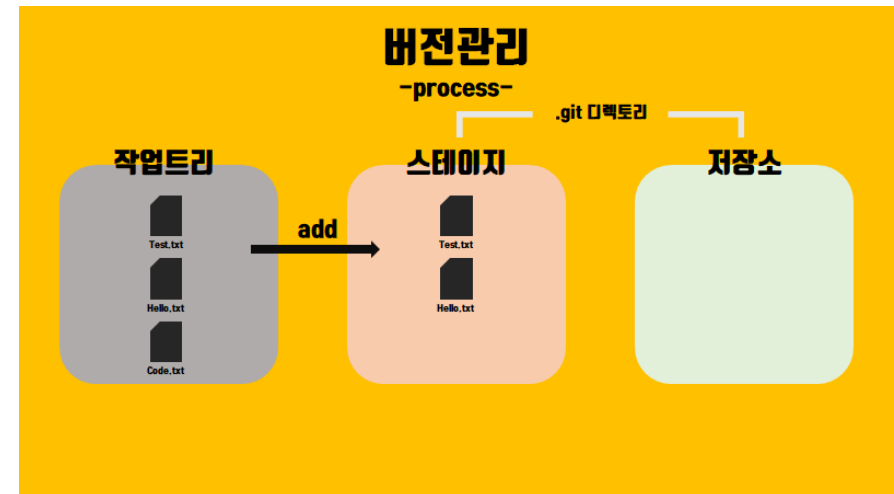
```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git add hello.txt
warning: in the working copy of 'hello.txt', LF will be replaced by CRLF the next time Git touches it

migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   hello.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        GIT/
        "\353\260\234\355\221\234/"
```



GIT 버전 관리하기



git commit

```

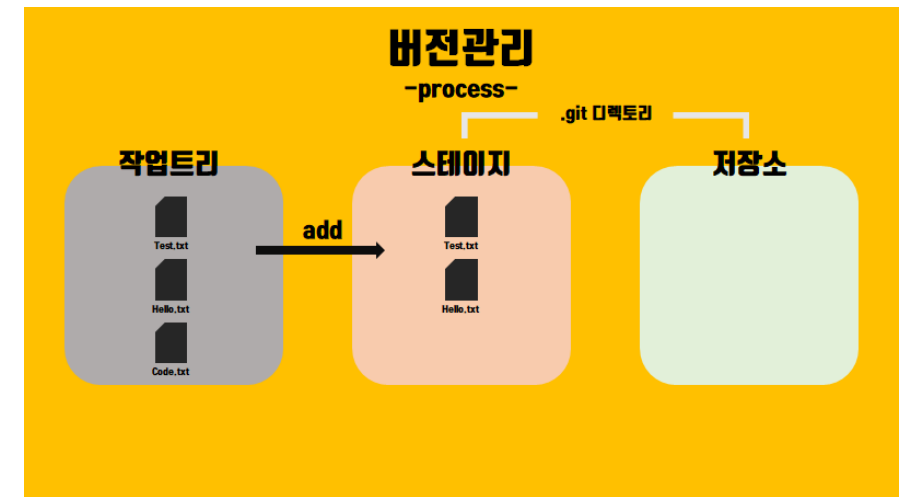
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git commit
[master (root-commit) 9182fcb] 1
 1 file changed, 1 insertion(+)
 create mode 100644 hello.txt

migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git add hello.txt
warning: in the working copy of 'hello.txt', LF will be replaced by CRLF

migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        GIT/
        "\353\260\234\355\221\234/"

migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git commit -m 'version2'
[master f522159] version2
 1 file changed, 1 insertion(+), 1 deletion(-)
  
```



GIT 버전 관리하기



한 번에 commit, 커밋 내역 확인하기

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git commit -am "version3"
warning: in the working copy of 'hello.txt', LF will be replaced by CRLF
[master b383cc6] version3
1 file changed, 2 insertions(+), 1 deletion(-)
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git log
commit b383cc627f4dd723733a3431de3a736030c127ad (HEAD -> master)
Author: chan <miggari123@naver.com>
Date: Thu Jun 22 01:40:45 2023 +0900

    version3

commit f522159c44808cf608f823e37c8fa4147abd32fd
Author: chan <miggari123@naver.com>
Date: Thu Jun 22 01:38:22 2023 +0900

    version2

commit 9182fcb752d6a21a345a69ca6d989900dc0c0f30
Author: chan <miggari123@naver.com>
Date: Thu Jun 22 01:36:18 2023 +0900
```

GIT 버전 관리하기



git log (커밋 로그)

GIT 해쉬

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
```

```
$ git log
```

```
commit b383cc627f4dd723733a3431de3a736030c127ad (HEAD -> master)
```

최신 버전

```
Author: chan <miggari123@naver.com>
```

```
Date: Thu Jun 22 01:40:45 2023 +0900
```

version3

commit 메시지

```
commit f522159c44808cf608f823e37c8fa4147abd32fd
```

```
Author: chan <miggari123@naver.com>
```

```
Date: Thu Jun 22 01:38:22 2023 +0900
```

version2

```
commit 9182fcb752d6a21a345a69ca6d989900dc0c0f30
```

```
Author: chan <miggari123@naver.com>
```

```
Date: Thu Jun 22 01:36:18 2023 +0900
```

GIT 버전 관리하기



git diff 사용하기 - 변경 상태 확인

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git diff
warning: in the working copy of 'hello.txt', LF will be replaced by CRLF the next time Git touches it
diff --git a/hello.txt b/hello.txt
index 5ac68d7..9236865 100644
--- a/hello.txt
+++ b/hello.txt
@@ -1,2 +1,3 @@
-hell world!
-hello world!
+hell word!
+hell word!
+hello world
```

```
migga@Vivobook_HC MINGW64 /c/Users/migga/Desktop/AI경진대회 (master)
$ git log --stat
commit b383cc627f4dd723733a3431de3a736030c127ad (HEAD -> master)
Author: chan <miggari123@naver.com>
Date: Thu Jun 22 01:40:45 2023 +0900

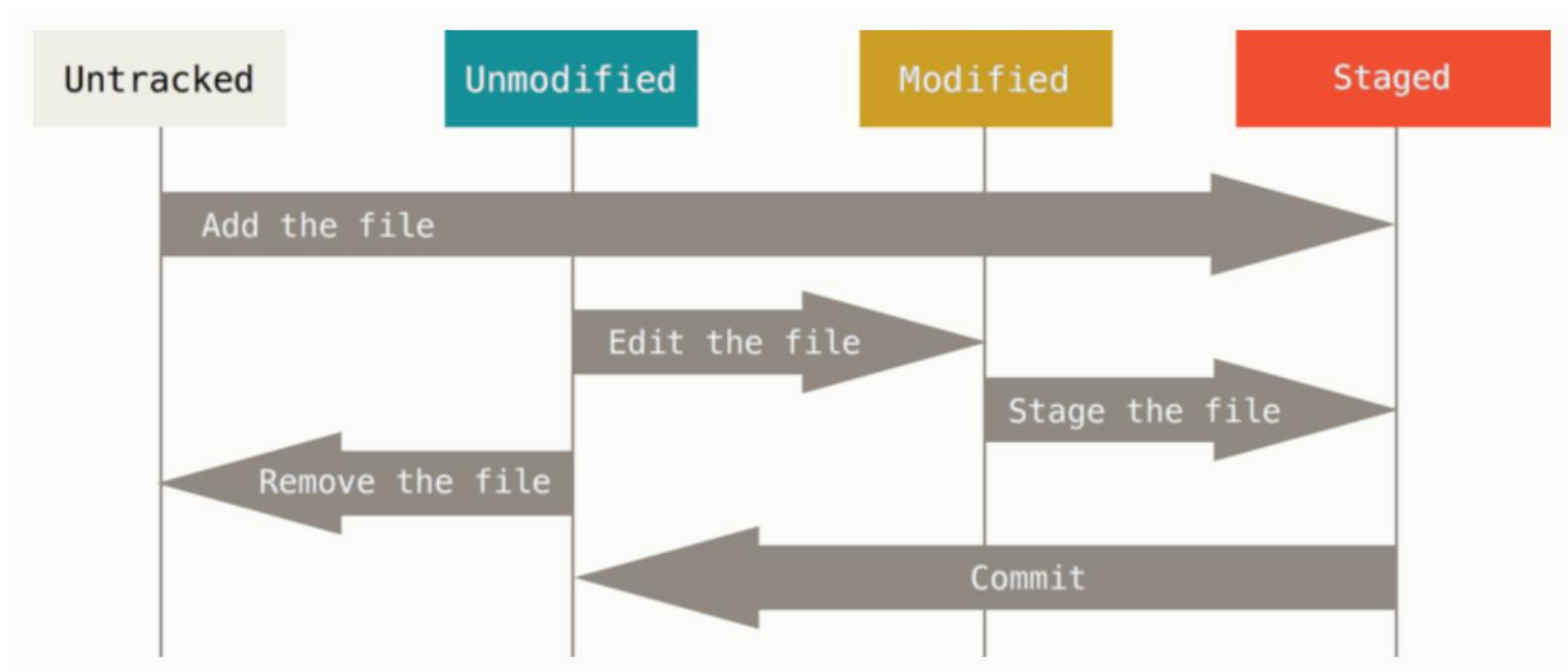
    version3

hello.txt | 3 ++-
1 file changed, 2 insertions(+), 1 deletion(-)
```

GIT 버전 관리하기



정리하기



GIT 버전 관리하기



퀴즈

1. 원래 커밋이 완료된 파일을 수정했다면 어느 상태인가?
2. 'Changes to be committed'의 안내문이 나왔다면, 현재 파일은 어디에 존재하는가?
3. git add가 사용되는 경우는 언제인가? (2가지)

꽃.