

GitHub

박현민

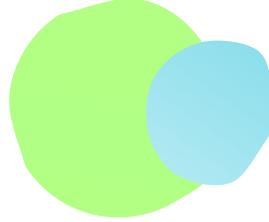
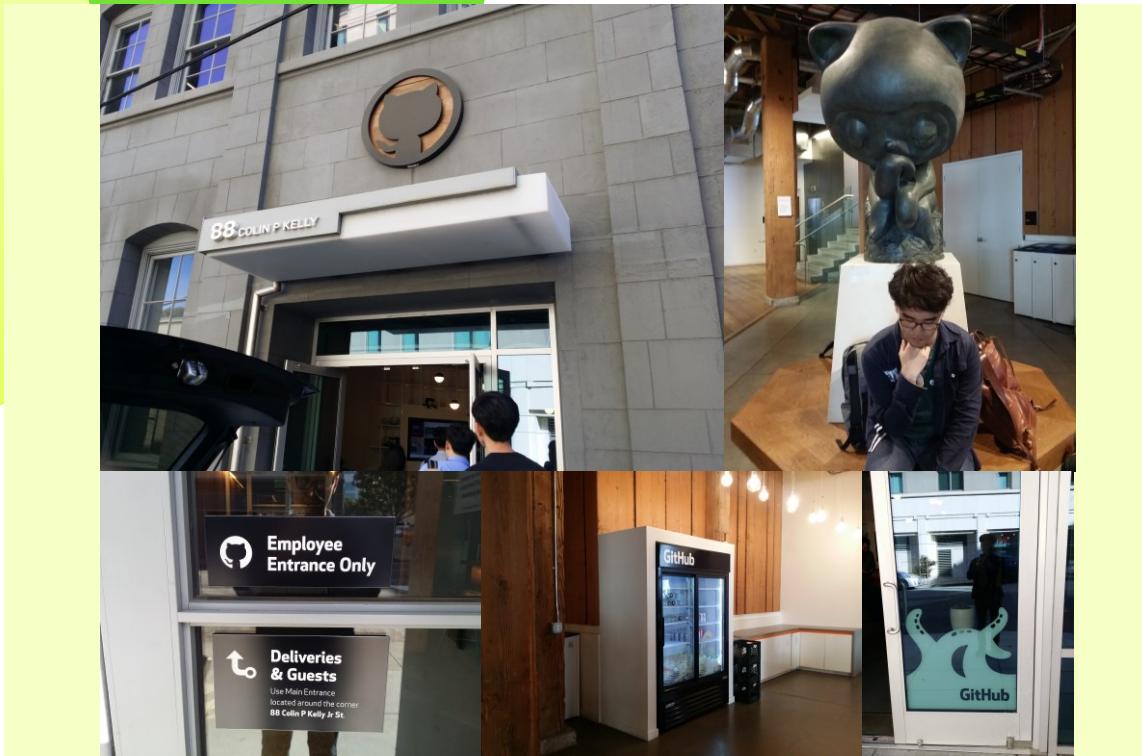


Table of Contents

- Me
- Git
 - 설치 및 환경 설정
 - 커맨드 및 실습
- GitHub
 - 가입
 - 기능 및 실습
 - GitHub Desktop
- Reference

Me



박현민

hyeonmin.park@kennysoft.kr

CV: <http://cv.kennysoft.kr>



The background features abstract, overlapping shapes in various colors (yellow, green, blue) against a white background.

Chapter 1

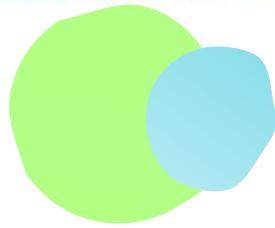
GIT

Git이란???



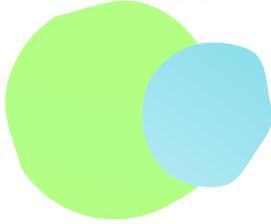
- 깃(Git /gɪt/[3])은 프로그램 등의 소스 코드 관리를 위한 분산 버전 관리 시스템이다. 기하학적 불변 이론을 바탕으로 설계됐고, 빠른 수행 속도에 중점을 두고 있는 것이 특징이다. 최초에는 리눅스 토르발스가 리눅스 커널 개발에 이용하려고 개발하였으며, 현재는 다른 곳에도 널리 사용되고 있다.
- 깃의 작업 폴더는 모두, 전체 기록과 각 기록을 추적할 수 있는 정보를 포함하고 있으며, 완전한 형태의 저장소이다. 네트워크에 접근하거나 중앙 서버에 의존하지 않는다.
- 현재 주니오 하마노(Junio Hamano)가 소프트웨어 관리를 감독하고 있다. 깃은 GNU 일반 공중 사용 허가서 v2 하에 배포되는 자유 소프트웨어이다.
- 역사[편집]
- 깃의 개발은 리눅스 커널의 수많은 개발자들이 한때 자신들의 프로젝트의 유지보수를 위해 사용하였던 자유 소스 관리 시스템(SCM)인 비트키퍼에 대한 접근을 포기한 이후인 2005년 4월에 시작되었다.[4]

Git이란?



DVCS: 분산 버전 관리 시스템
(Distributed Version Control System)

Git이란? (Cont'd)



- 분산

모든 곳에 동일한 내용이 분산되어 보관

- 버전 관리

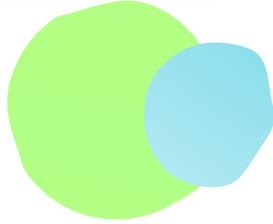
각 버전의 히스토리를 가지고 있으며 과거 상태로 복구 가능

Why Git?

■ When I was young...

이름	수정한 날짜	유형	크기
110528.zip	2015-04-20 노간...	압축(ZIP) 파일	4,590KB
110625_경원대_java.zip	2015-04-20 오전...	압축(ZIP) 파일	4,361KB
ANDROID 화장 - KENNYCAMERA Import.hwp	2015-04-20 오전...	한컴오피스 2018 ...	1,342KB
AVR FPGA Line Tracer (Source).show	2012-12-08 오전...	한컴오피스 2018 ...	681KB
AVR과 FPGA 연동하기.show	2013-01-12 오전...	한컴오피스 2018 ...	669KB
AVR과 FPGA를 이용한 라인트레이서 (가천대 Script v2).hwp	2013-02-02 오전...	한컴오피스 2018 ...	16KB
AVR과 FPGA를 이용한 라인트레이서 (가천대 논문 BETA).hwp	2013-01-26 오후...	한컴오피스 2018 ...	4,946KB
AVR과 FPGA를 이용한 라인트레이서 (Script).hwp	2013-02-01 오후...	한컴오피스 2018 ...	24KB
AVR과 FPGA를 이용한 라인트레이서 (충남대 논문 제출본).hwp	2013-01-14 오후...	한컴오피스 2018 ...	2,501KB
AVR과 FPGA를 이용한 라인트레이서 (포스터 v1).pptx	2013-01-26 오후...	Microsoft PowerP...	2,267KB
AVR과 FPGA를 이용한 라인트레이서 (포스터 v2).pptx	2013-01-28 오전...	Microsoft PowerP...	2,717KB
AVR과 FPGA를 이용한 라인트레이서 (포스터 v3).pptx	2013-01-28 오후...	Microsoft PowerP...	2,642KB
AVR과 FPGA를 이용한 라인트레이서 v1.pptx	2013-01-16 오전...	Microsoft PowerP...	1,909KB
AVR과 FPGA를 이용한 라인트레이서 v2.show	2013-01-17 오후...	한컴오피스 2018 ...	2,258KB
AVR과 FPGA를 이용한 라인트레이서 v3.show	2013-01-18 오전...	한컴오피스 2018 ...	2,188KB
AVR과 FPGA를 이용한 라인트레이서 v4.pptx	2013-01-26 오후...	Microsoft PowerP...	2,279KB
AVR과 FPGA를 이용한 라인트레이서 v5.pptx	2013-02-01 오후...	Microsoft PowerP...	15,171KB
AVR과 FPGA를 이용한 라인트레이서 v6.pptx	2013-02-01 오후...	Microsoft PowerP...	15,170KB
AVR과 FPGA를 이용한 라인트레이서 v7.pptx	2013-02-01 오후...	Microsoft PowerP...	15,473KB
AVR과 FPGA를 이용한 라인트레이서 v8.pptx	2013-02-02 오전...	Microsoft PowerP...	15,425KB
AVR과 FPGA를 이용한 라인트레이서 v9.pptx	2013-02-02 오전...	Microsoft PowerP...	14,527KB
AVR과 FPGA를 이용한 라인트레이서 v10 (FINAL).pptx	2013-02-27 오후...	Microsoft PowerP...	14,527KB
AVR과 FPGA를 이용한 라인트레이서.pptx	2015-04-20 오전...	Microsoft PowerP...	1,912KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (김민재 BETA).pptx	2013-01-12 오전...	Microsoft PowerP...	111KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (김민재).hwp	2013-01-13 오후...	한컴오피스 2018 ...	1,089KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (김민재).pptx	2013-01-15 오후...	Microsoft PowerP...	883KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (박현민 BETA).hwp	2013-01-12 오후...	한컴오피스 2018 ...	767KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (박현민).hwp	2013-01-14 오전...	한컴오피스 2018 ...	1,273KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (박유민).pptx	2013-01-15 오전...	Microsoft PowerP...	331KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (이성록).pptx	2013-01-15 오후...	Microsoft PowerP...	505KB
AVR과 FPGA를 이용한 지능형 로봇(라인트레이서) 설계 (조유현).pptx	2013-01-15 오후...	Microsoft PowerP...	958KB
CD.zip	2012-11-03 오후...	압축(ZIP) 파일	125,376KB
Line_Tracer.c	2007-11-09 오후...	C Source file	5KB
경원대영재교육원로고.jpg	2014-04-20 오후...	JPG 파일	124KB
과학영재교육원 15회 뉴스레터.PDF	2014-04-16 오후...	Adobe Acrobat 문서	4,714KB

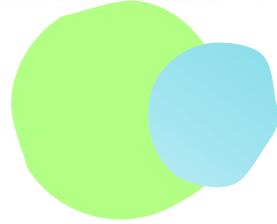
Why Git? (*Cont'd*)



버전이 올라가도 동일한 파일을 계속 복사하는 것은 낭비

수정 이유도 함께 저장 가능

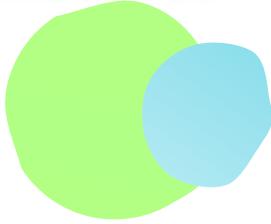
Why Git? (2)



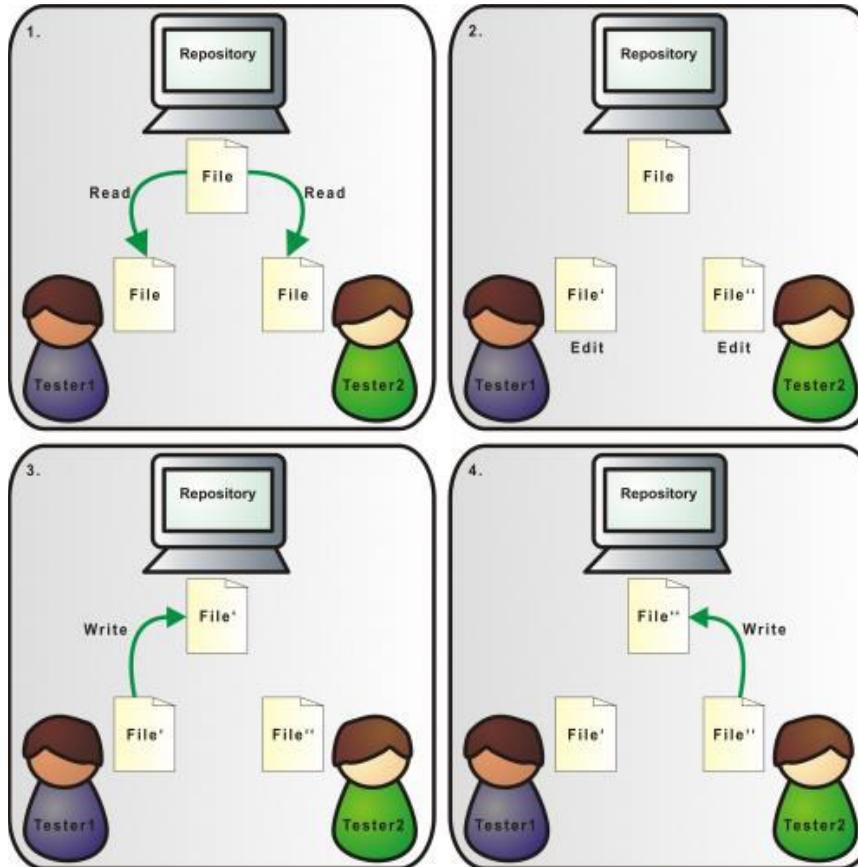
- 백업



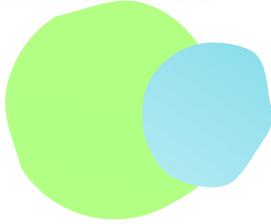
Why Git? (3)



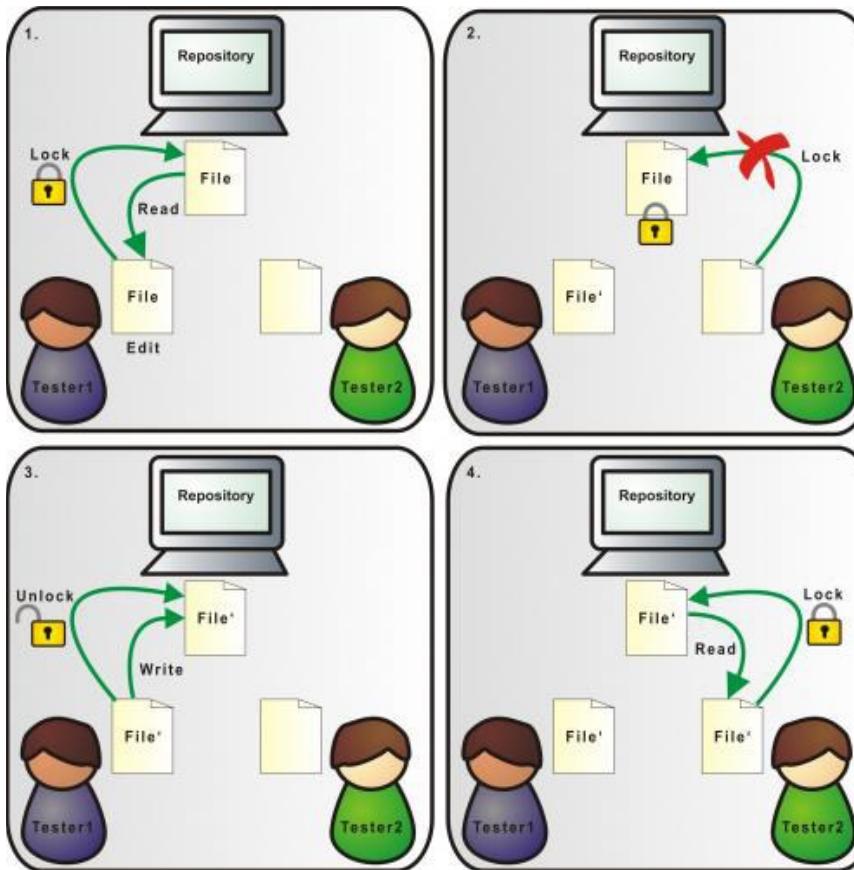
- 협업: Overwritten problem



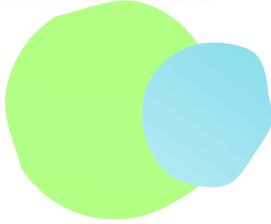
Why Git? (3) (Cont'd)



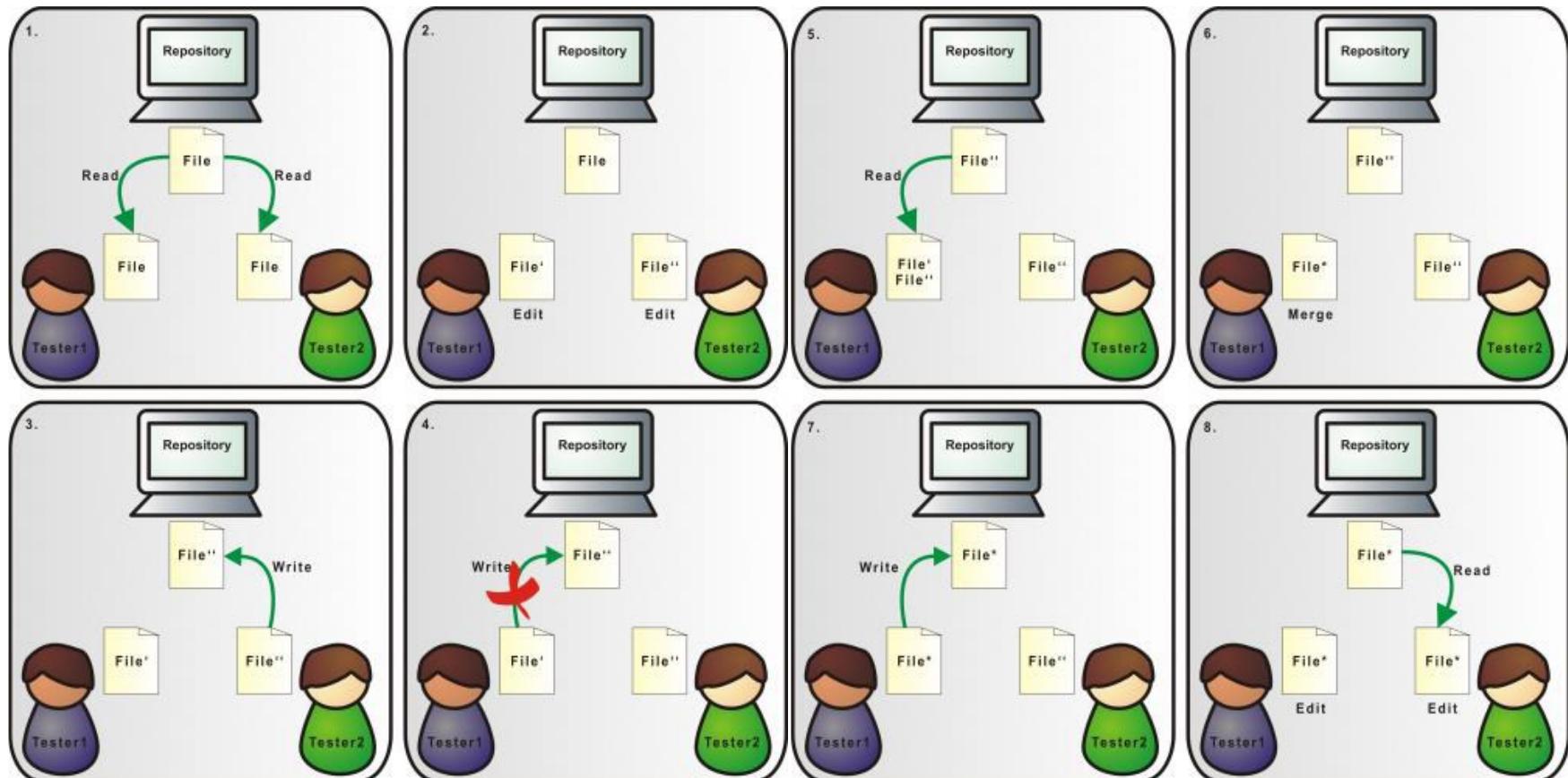
- 협업: Lock-Modify-Unlock approach



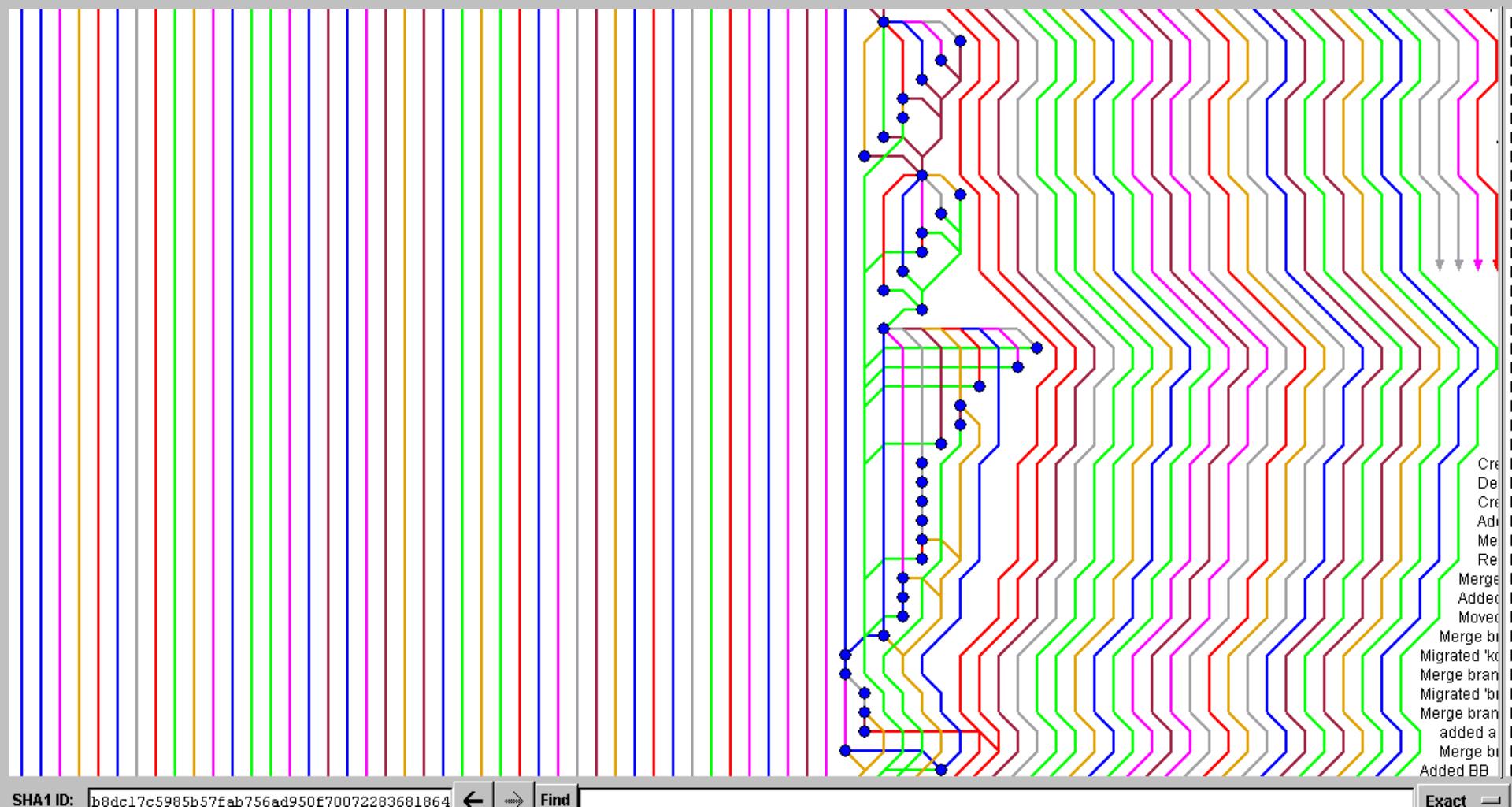
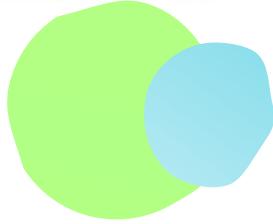
Why Git? (3) (Cont'd)



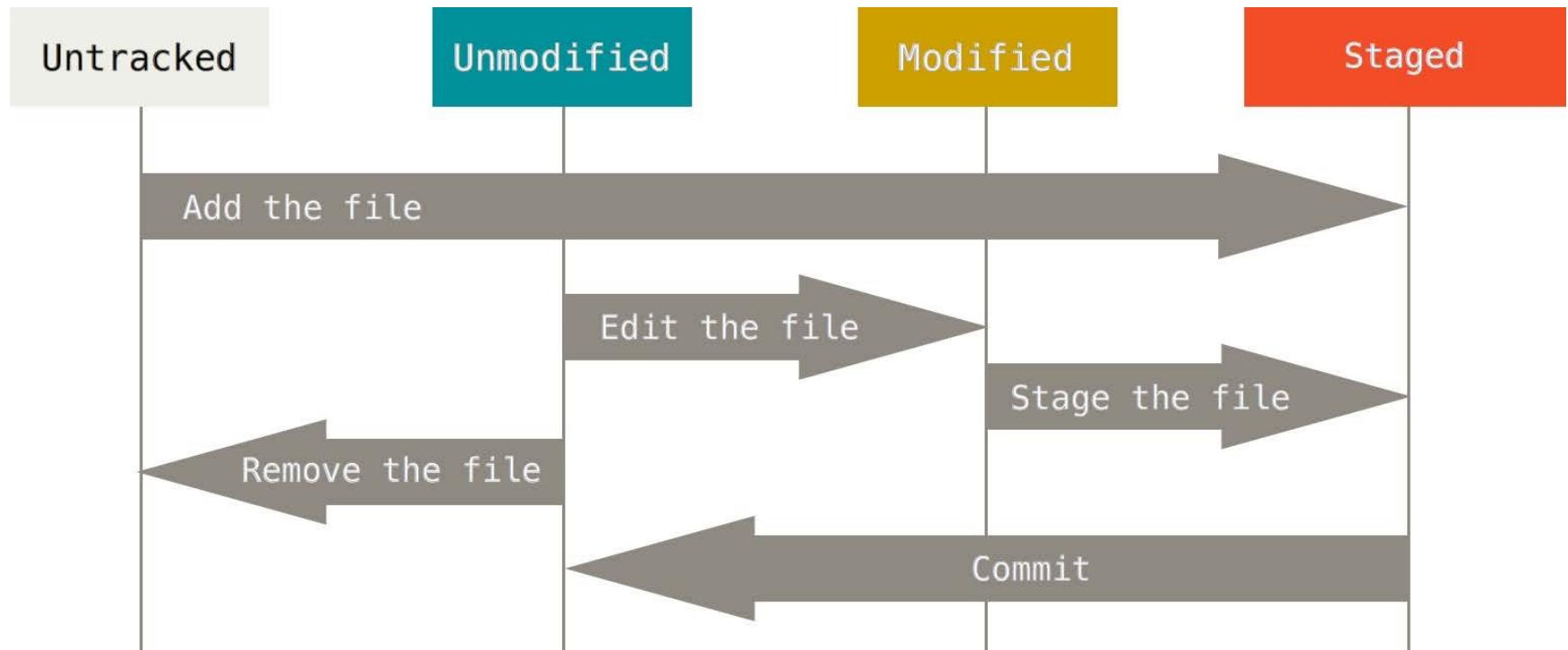
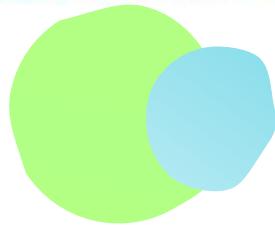
- 협업: Copy-Modify-Merge approach



Don't be afraid



기본 개념

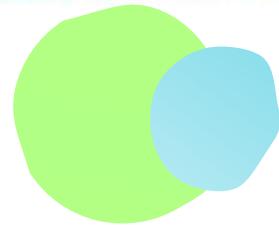




Chapter 1-1

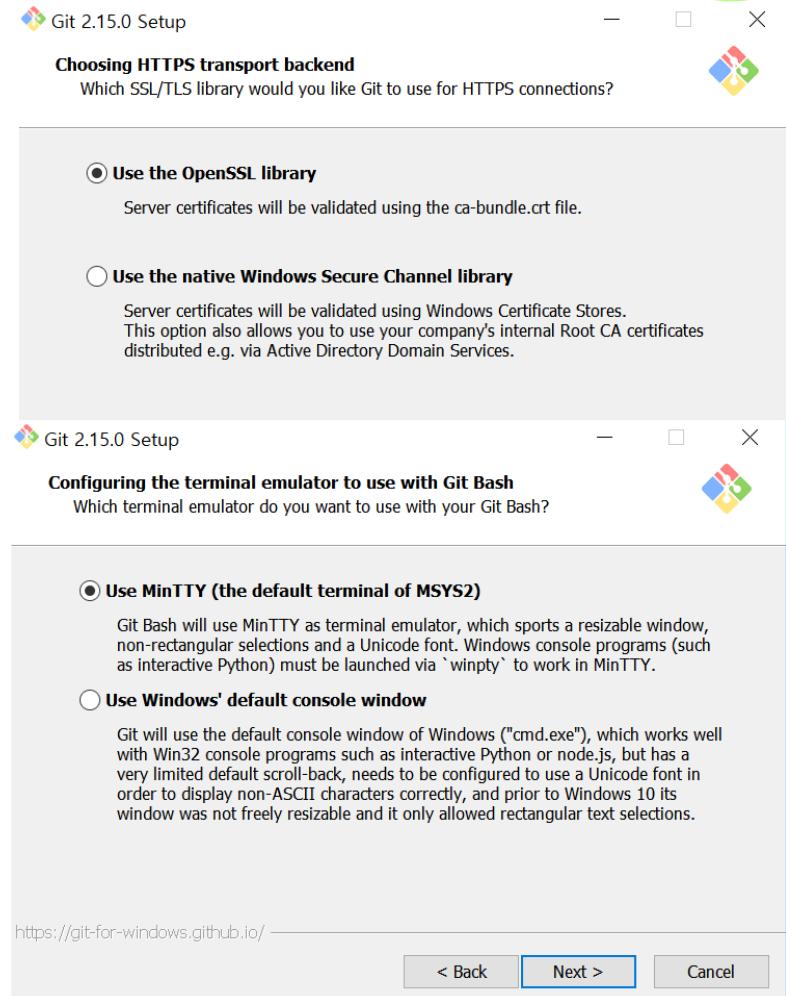
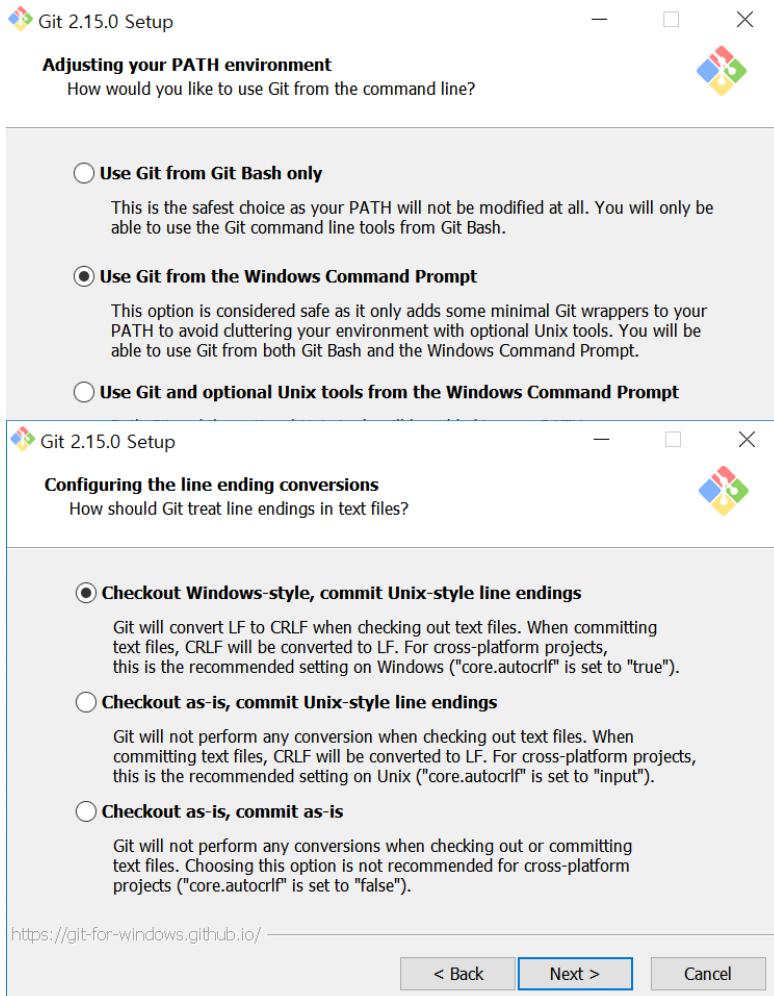
Git: 설치 및 환경 설정

git-for-windows 설치

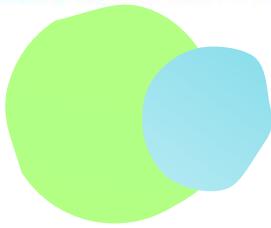


<https://git-scm.com/download/win>

git-for-windows 설치 (Cont'd)



환경 설정



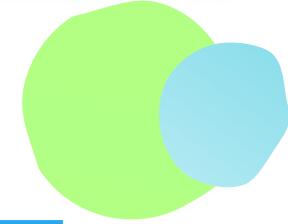
git config 커맨드를 통해 진행

이제부터 cmd를 사용한다.

(n): git 명령어 설명

[n]: 실습 (따라해보기)

(0) config



```
C:\Users\525hm\Desktop\github-hol>git config --global --list
user.name=KENNYSOFT
user.email=hyeonmin.park@kennysoft.kr
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
rerere.enabled=true
rerere.autoupdate=true
credential.helper=wincred

C:\Users\525hm\Desktop\github-hol>git config --list
core.symlinks=true
core.autocrlf=false
core.fscache=true
color.diff=auto
color.status=auto
color.branch=auto
color.interactive=true
help.format=html
sendemail.smtpserver=/bin/msmtp.exe
```

설정이 저장되는 곳은 --global 또는 저장소

--list로 저장된 값 확인

속성 설정: (속성 이름) (속성 값)

[0] 계정 정보 설정

- git config --global user.name "Hyeonmin Park"
- git config --global user.email "hyeonmin.park@kennyssoft.kr"

이름과 이메일을 자기 것으로 수정!

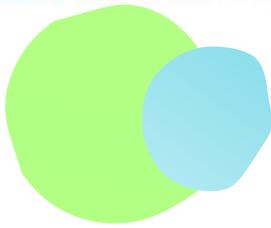
도용 가능성 ⇒ GPG



Chapter 1-2

GIT: 커맨드 및 실습

Providing



<https://gist.github.com/KENNYSOFT/4cf28c5d09382553e18c8eae11f134e7>

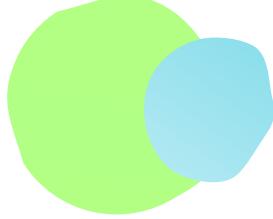
(1) init

```
C:\#WINDOWS#system32#cmd.exe
C:\#Users\525hm\Desktop\github-hol>git init
Initialized empty Git repository in C:/Users/525hm/Desktop/github-hol/.git/
C:\#Users\525hm\Desktop\github-hol>
```

File Explorer View:

이름	수정한 날짜	유형	크기
hooks	2018-07-11 오전...	파일 폴더	
info	2018-07-11 오전...	파일 폴더	
objects	2018-07-11 오전...	파일 폴더	
refs	2018-07-11 오전...	파일 폴더	
config	2018-07-11 오전...	파일	1KB
description	2018-07-11 오전...	파일	1KB
HEAD	2018-07-11 오전...	파일	1KB

(2) status



```
C:\WINDOWS\system32\cmd.exe
C:\Users\525hm\Desktop\github-hol>git init
Initialized empty Git repository in C:/Users/525hm/Desktop/github-hol/.git/
C:\Users\525hm\Desktop\github-hol>git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
C:\Users\525hm\Desktop\github-hol>
```

(2) status (*Cont'd*)

```
C:\WINDOWS\system32\cmd.exe
nothing to commit (create/copy files and use "git add" to track)
C:\Users\525hm\Desktop\github-hol>echo "# GitHub-HoL" > README.md
C:\Users\525hm\Desktop\github-hol>dir
C 드라이브의 블루프: Windows 10
블루프 일련 번호: 0EE8-1F09

C:\Users\525hm\Desktop\github-hol 디렉터리

2018-07-11 오전 10:43 <DIR> .
2018-07-11 오전 10:43 <DIR> ..
2018-07-11 오전 10:43 17 README.md
               1개 파일           17 바이트
               2개 디렉터리   2,639,568,896 바이트 남음

C:\Users\525hm\Desktop\github-hol>git status
On branch master

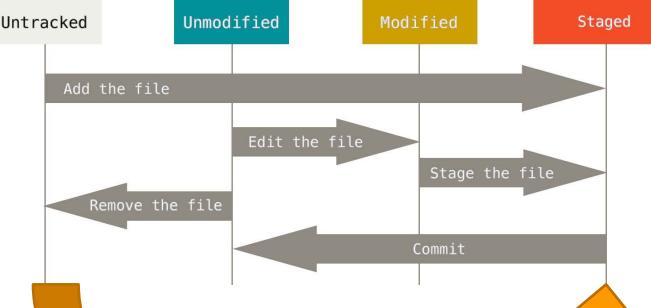
No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    README.md

nothing added to commit but untracked files present (use "git add" to track)
C:\Users\525hm\Desktop\github-hol>
```

(3) add



```
C:\WINDOWS\system32\cmd.exe
2018-07-11 오전 10:43           17 README.md
          1개 파일           17 바이트
          2개 디렉터리   2,639,568,896 바이트 남음

C:\Users\525hm\Desktop\github-hol>git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    README.md

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\525hm\Desktop\github-hol>git add README.md

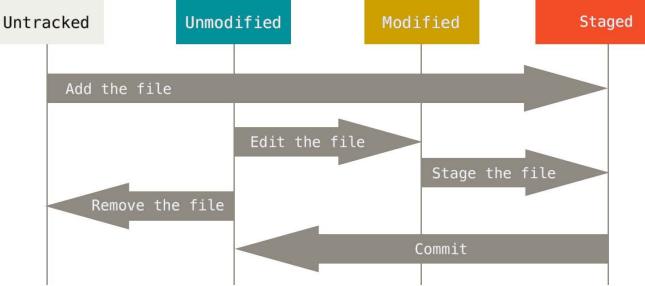
C:\Users\525hm\Desktop\github-hol>git status
On branch master

No commits yet

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

    new file:   README.md

C:\Users\525hm\Desktop\github-hol>
```



(3) add (Cont'd)

```

C:\WINDOWS\system32\cmd.exe
C:\Users\525hm\Desktop\github-hol>echo "# GitHub: Hands-On Lab" > README.md 내용 조금 수정
C:\Users\525hm\Desktop\github-hol>git status
On branch master

No commits yet

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

    new file: README.md

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified: README.md

C:\Users\525hm\Desktop\github-hol>git add .
편하게 모든 파일을 추가할 수 있다.

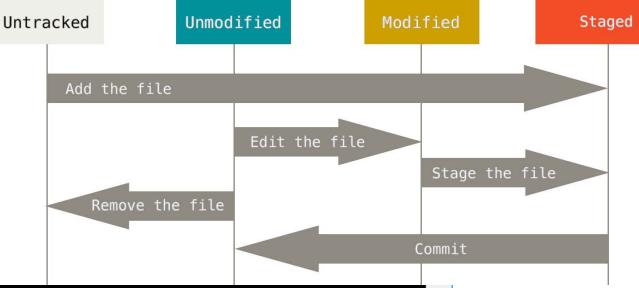
C:\Users\525hm\Desktop\github-hol>git status
On branch master

No commits yet

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

    new file: README.md

```



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

    new file: README.md
```

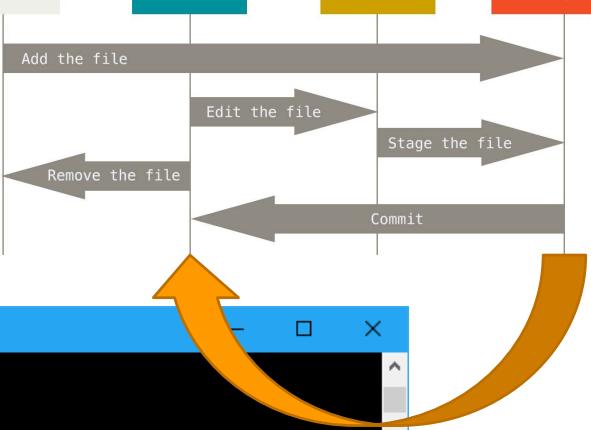
```
C:\Users\525hm\Desktop\github-hol>git status -s
A README.md
```

```
C:\Users\525hm\Desktop\github-hol>echo "# GitHub: Hands-On Lab (7/12)" > README.md
```

```
C:\Users\525hm\Desktop\github-hol>git status -s
AM README.md
```

```
C:\Users\525hm\Desktop\github-hol>
```

- [Staging area의 상태][Working tree의 상태] 파일 이름
 - ??: untracked files
 - A : new files that have been added to the staged area
 - M : modified and staged
 - M: modified but not yet staged
 - MM: modified, staged, and then modified again



```
C:\WINDOWS\system32\cmd.exe
```

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

```
    new file: README.md
```

```
Changes not staged for commit:
```

```
(use "git add <file>..." to update what will be committed)  
(use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified: README.md
```

```
C:\Users\525hm\Desktop\github-hol>git add .
```

```
C:\Users\525hm\Desktop\github-hol>git status  
On branch master
```

```
No commits yet
```

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

```
    new file: README.md
```

```
C:\Users\525hm\Desktop\github-hol>git commit -m "Initial commit"  
[master (root-commit) 36a4413] Initial commit  
1 file changed, 1 insertion(+)  
create mode 100644 README.md
```

-m 옵션은 필수는 아니지만 매우 강력히 추천한다.

(5) log

```
C:\WINDOWS\system32\cmd.exe
modified: README.md

C:\Users\525hm\Desktop\github-hol>git add .
C:\Users\525hm\Desktop\github-hol>git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file: README.md

C:\Users\525hm\Desktop\github-hol>git commit -m "Initial commit"
[master (root-commit) 36a4413] Initial commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

C:\Users\525hm\Desktop\github-hol>git log
commit 36a441373c04eebbd3a5b730eec55d4181bc8c2d (HEAD -> master)
Author: KENNYSOFT <hyeonmin.park@kennysoft.kr>
Date:   Wed Jul 11 11:13:17 2018 +0900

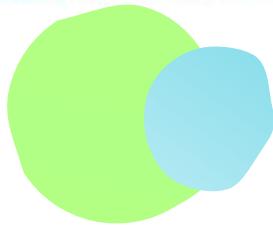
  Initial commit

C:\Users\525hm\Desktop\github-hol>
```

[1] 저장소 초기화 및 첫 커밋 만들기

- md github-hol
- cd github-hol
- git init
- echo "# github-hol" > README.md
- git status
- git add README.md
- echo "# GitHub: Hands-On Lab (7/12)" > README.md
- git status
- git status -s
- git add .
- git status
- git commit -m "Initial commit"
- git log

(6) diff



```
C:\> C:\WINDOWS\system32\cmd.exe
+ "# GitHub: Hands-On Lab (7/12)" ^M
C:\>Users\525hm\Desktop\github-hol>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)

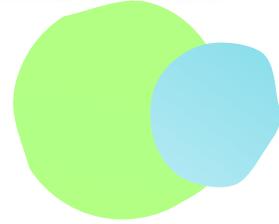
    msptestapp/

no changes added to commit (use "git add" and/or "git commit -a")

C:\>Users\525hm\Desktop\github-hol>git diff
diff --git a/README.md b/README.md
index d0a059a..2b947ac 100644
--- a/README.md
+++ b/README.md
@@ -1 +1,3 @@
- "# GitHub: Hands-On Lab (7/12)"
+ "# GitHub: Hands-On Lab (7/12)" ^M
+ ^M
+ w/ PaaS Source Code
\ No newline at end of file
C:\>Users\525hm\Desktop\github-hol>
```

echo를 잘못 사용했다.
설명 추가

[2] 새로운 커밋 만들기



- Level2 폴더 내의 README.md와 msptestapp 폴더를 저장소로 복사한다. (README.md는 덮어쓰기)
- git status
- git diff
- git add .
- git status
- git commit -m "Add readme"
- git log

```
on C:\WINDOWS\system32\cmd.exe
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
    modified:   README.md
msptestapp/
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    msptestapp/
no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\525hm\Desktop\github-hol>git add .
C:\Users\525hm\Desktop\github-hol>git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
    modified:   README.md
    new file:   msptestapp/README.md
C:\Users\525hm\Desktop\github-hol>git commit -m "Add readme"
[master 015fbef] Add readme
 2 files changed, 15 insertions(+), 1 deletion(-)
 create mode 100644 msptestapp/README.md
C:\Users\525hm\Desktop\github-hol>
```

(5) log --oneline

```
C:\WINDOWS\system32\cmd.exe
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 14:16:24 2018 +0900

    Add dependency: jquery

commit ba26a5fa11217b5c2d9f5270b002b428ef88fdf7
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 14:16:05 2018 +0900

    Add dependency: bootstrap

commit 015fbe5d3241758226289f9a6f234840daa6341f
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 11:48:59 2018 +0900

    Add readme

commit 36a441373c04eebbd3a5b730eec55d4181bc8c2d
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 11:13:17 2018 +0900

    Initial commit

D:\KLU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의\github-hol>git log --oneline
7224ee0 (HEAD -> master) Add dependency: jquery
ba26a5f Add dependency: bootstrap
015fbe5 Add readme
36a4413 Initial commit

D:\KLU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의\github-hol>
```

[3] 또 커밋 만들기

- Level3 폴더 내의 msptestapp\bootstrap-3.3.5-dist 폴더를 저장소로 복사한다.
 - git add .
 - git commit -m "Add dependency: bootstrap"
 - Level3 폴더 내의 msptestapp\js 폴더를 저장소로 복사한다.
 - git add .
 - git commit -m "Add dependency: jquery"
 - git log --oneline

```
C:\>Windows\system32\cmd.exe C:\>Windows\system32\cmd.exe
create mode 100644 msptestapp\bootstrap-3.3.5-dist\css\bootstrap.css.map
create mode 100644 msptestapp\bootstrap-3.3.5-dist\css\bootstrap.min.css
create mode 100644 msptestapp\bootstrap-3.3.5-dist\fnts\lyphicons-half1.fnt
create mode 100644 msptestapp\bootstrap-3.3.5-dist\fnts\lyphicons-half1.ttf
create mode 100644 msptestapp\bootstrap-3.3.5-dist\fnts\lyphicons-half1.woff
create mode 100644 msptestapp\bootstrap-3.3.5-dist\fnts\lyphicons-half1.woff2
create mode 100644 msptestapp\bootstrap-3.3.5-dist\js\bootstrap.js
create mode 100644 msptestapp\bootstrap-3.3.5-dist\js\bootstrap.min.js
create mode 100644 msptestapp\bootstrap-3.3.5-dist\js\npm.js

D:\>UMGrade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git add .
D:\>UMGrade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git commit -m "Initial commit"
[master 7224e00] Add dependency: jquery
 1 file changed, 5 insertions(+)
create mode 100644 msptestapp\js\jquery-1.11.3.min.js

D:\>UMGrade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git log
commit 7224e0095227516d1483cb9f4a05f68cf9698 (HEAD -> master)
Author: KENNYSOFT <hyeonmin.park@kennysoft.kr>
Date:   Wed Jul 11 14:16:24 2018 +0900

    Add dependency: jquery

commit be2a5fa11217b5c2d9f527002b429ef80fdf7
Author: KENNYSOFT <hyeonmin.park@kennysoft.kr>
Date:   Wed Jul 11 14:16:05 2018 +0900

    Add dependency: bootstrap

commit 015fb5e0d2417592289f9a6f234840da6941f
Author: KENNYSOFT <hyeonmin.park@kennysoft.kr>
Date:   Wed Jul 11 11:48:59 2018 +0900

    Add readme

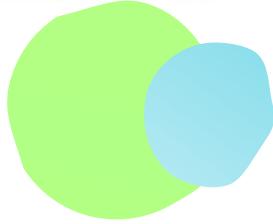
commit 36a44137c04eebbd0a5b730eecc55d4181bc82d
Author: KENNYSOFT <hyeonmin.park@kennysoft.kr>
Date:   Wed Jul 11 11:13:17 2018 +0900

    Initial commit

D:\>UMGrade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git log --oneline
7224e0095227516d1483cb9f4a05f68cf9698 [HEAD -> master] Add dependency: jquery
be2a5fa11217b5c2d9f527002b429ef80fdf7 Add dependency: bootstrap
015fb5e0d2417592289f9a6f234840da6941f Add dependency: jquery
36a44137c04eebbd0a5b730eecc55d4181bc82d Initial commit

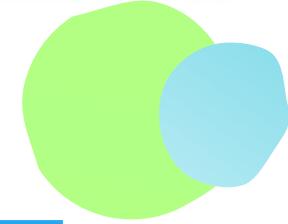
D:\>UMGrade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

[4] 계속 커밋 만들기



- Level4 폴더 내의 msptestapp 폴더를 저장소로 복사한다.
- git add .
- git commit -m "Add implementation"
- msptestapp\ajax\db_connection.php 파일을 열고 6번째 줄의 \$password 값을 "password1234" 등 임의로 변경한다.

현재 시나리오



```
C:\WINDOWS\system32\cmd.exe
    msptestapp/index.php
    msptestapp/js/script.js

nothing added to commit but untracked files present (use "git add" to track)

D:\KU\Grade 3 (2018)\MSP\ 코딩봉사단 강의\github-hol>git add .

D:\KU\Grade 3 (2018)\MSP\ 코딩봉사단 강의\github-hol>git commit -m "Add implementation"
[master 3e65aff] Add implementation
 8 files changed, 381 insertions(+)
 create mode 100644 msptestapp/ajax/addRecord.php
 create mode 100644 msptestapp/ajax/db_connection.php
 create mode 100644 msptestapp/ajax/deleteUser.php
 create mode 100644 msptestapp/ajax/readRecords.php
 create mode 100644 msptestapp/ajax/readUserDetails.php
 create mode 100644 msptestapp/ajax/updateUserDetails.php
 create mode 100644 msptestapp/index.php
 create mode 100644 msptestapp/js/script.js

D:\KU\Grade 3 (2018)\MSP\ 코딩봉사단 강의\github-hol>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

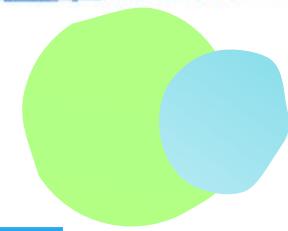
    modified:   msptestapp/ajax/db_connection.php

no changes added to commit (use "git add" and/or "git commit -a")
D:\KU\Grade 3 (2018)\MSP\ 코딩봉사단 강의\github-hol>
```

내 비밀번호를 입력했으니 저 파일은 커밋하면 안 되겠군!

깃에서 파일을 지워버리자.

(7) rm



```
C:\WINDOWS\system32\cmd.exe
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git add .
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git commit -m "Add implementation"
[master 3e65aff] Add implementation
 8 files changed, 381 insertions(+)
create mode 100644 msptestapp/ajax/addRecord.php
create mode 100644 msptestapp/ajax/db_connection.php
create mode 100644 msptestapp/ajax/deleteUser.php
create mode 100644 msptestapp/ajax/readRecords.php
create mode 100644 msptestapp/ajax/readUserDetails.php
create mode 100644 msptestapp/ajax/updateUserDetails.php
create mode 100644 msptestapp/index.php
create mode 100644 msptestapp/js/script.js

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   msptestapp/ajax/db_connection.php

no changes added to commit (use "git add" and/or "git commit -a")

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git rm msptestapp\ajax\db_connection.php
error: the following file has local modifications:
  msptestapp/ajax/db_connection.php
(use --cached to keep the file, or -f to force removal)

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

로컬 변경점이 있어서 파일을 삭제할 수 없다고 한다.

일단 -f 옵션을 줘서 지워보자.

(7) rm (Cont'd)



```
C:\WINDOWS\system32\cmd.exe
[master 3e65aff] Add implementation
 8 files changed, 381 insertions(+)
 create mode 100644 msptestapp/ajax/addRecord.php
 create mode 100644 msptestapp/ajax/db_connection.php
 create mode 100644 msptestapp/ajax/deleteUser.php
 create mode 100644 msptestapp/ajax/readRecords.php
 create mode 100644 msptestapp/ajax/readUserDetails.php
 create mode 100644 msptestapp/ajax/updateUserDetails.php
 create mode 100644 msptestapp/index.php
 create mode 100644 msptestapp/js/script.js

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   msptestapp/ajax/db_connection.php

no changes added to commit (use "git add" and/or "git commit -a")

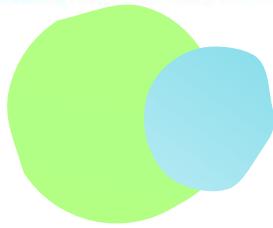
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git rm msptestapp\ajax\db_connection.php
error: the following file has local modifications:
  msptestapp/ajax/db_connection.php
(use --cached to keep the file, or -f to force removal)

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git rm -f msptestapp\ajax\db_connection.php
rm 'msptestapp/ajax/db_connection.php'

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

진짜 파일도 같이 지워졌다!

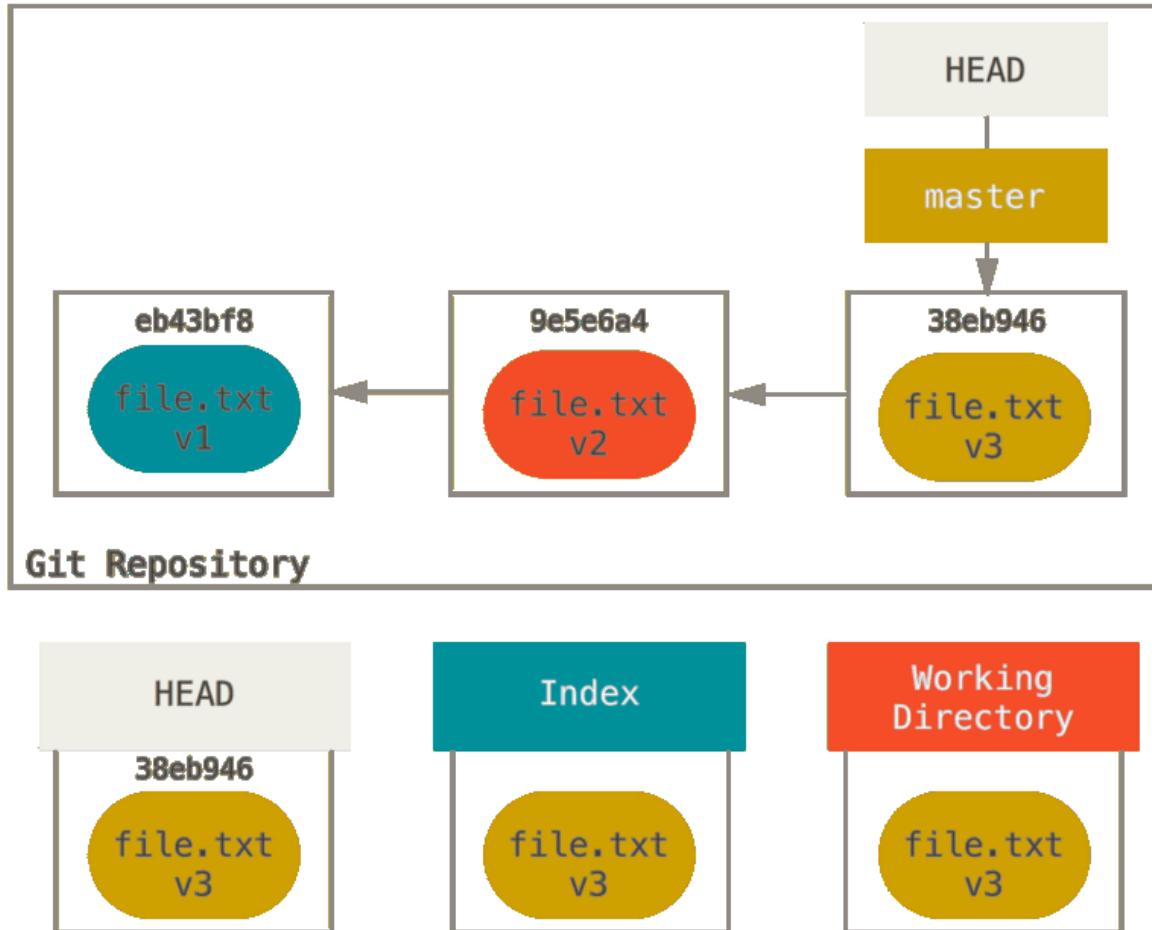
파일 복구



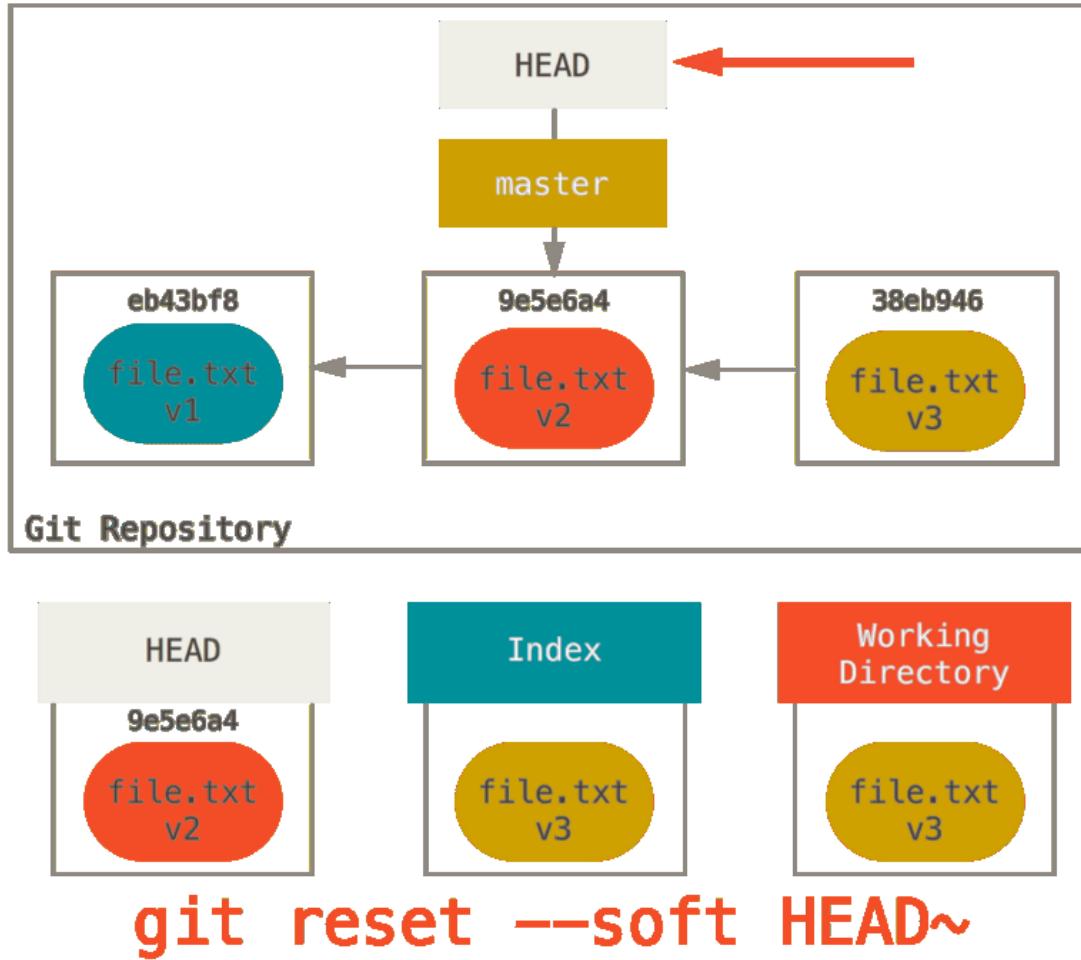
최근 커밋의 상태로 돌아가보자.

이후 슬라이드에서 file.txt는 db_connection.php,
v3은 삭제된 상태라고 생각하면 된다.

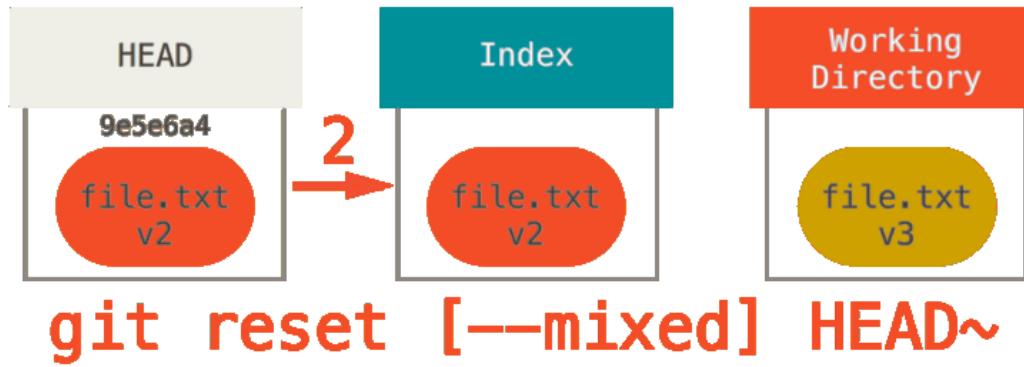
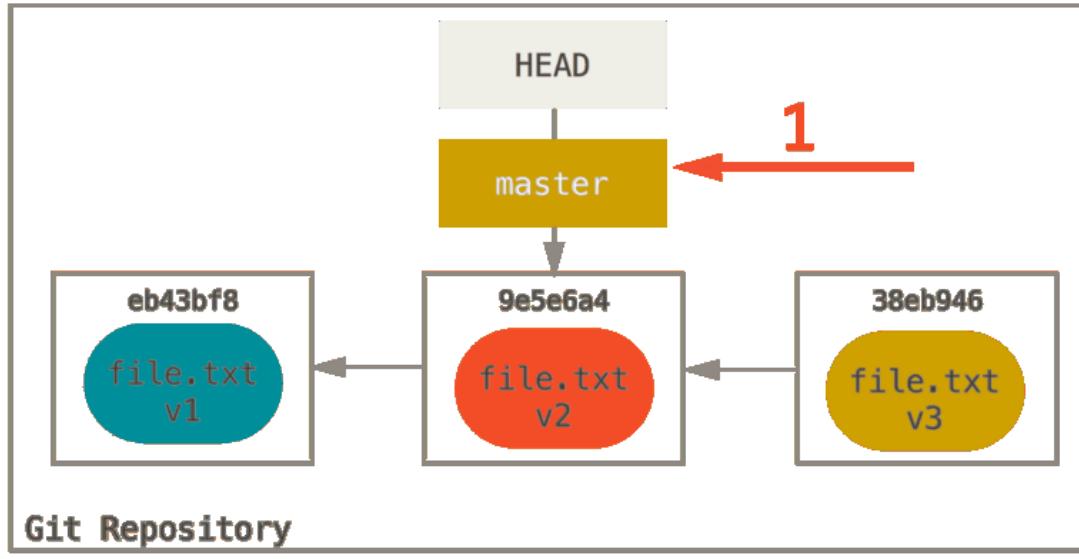
파일 상태 예시



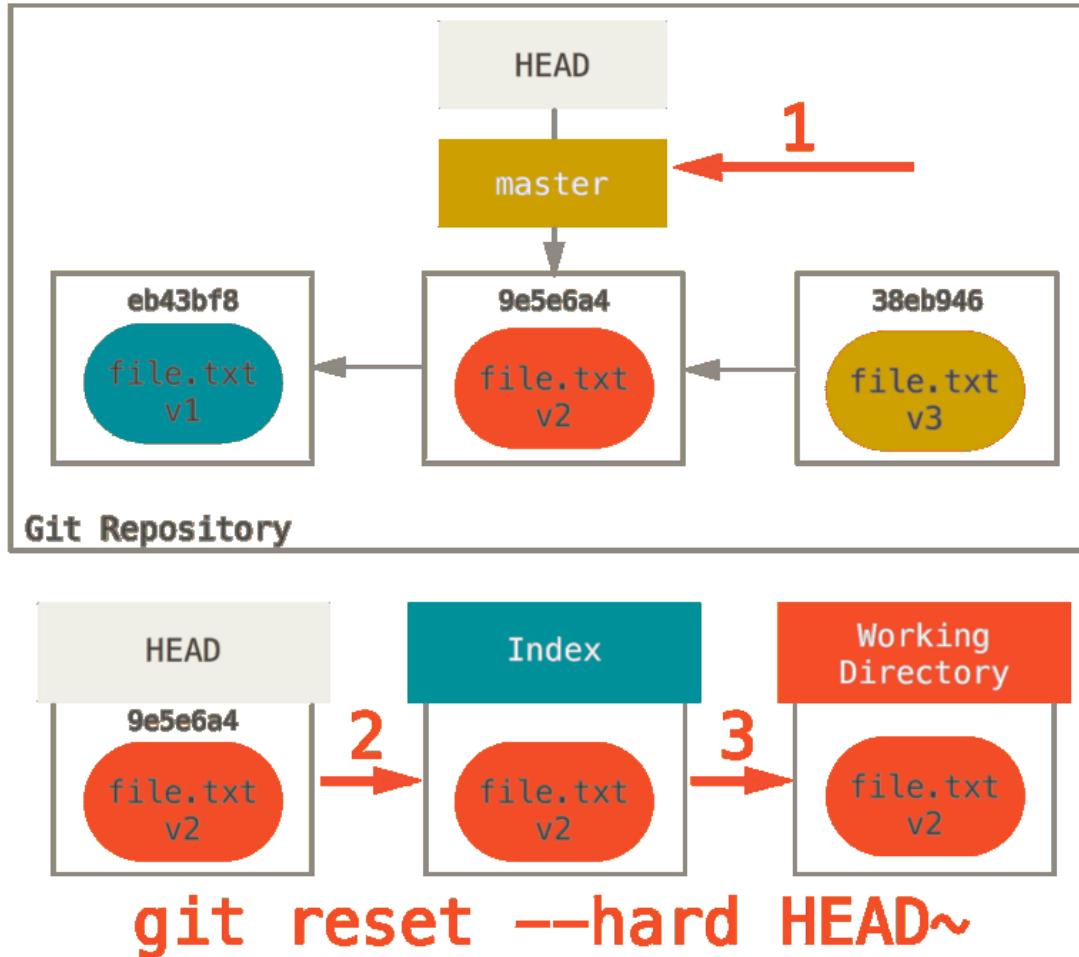
(8) reset --soft



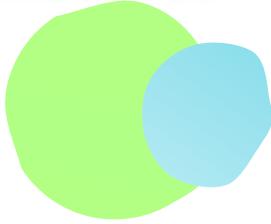
(8) reset [--mixed]



(8) reset --hard



(7) rm --cached



```
C:\WINDOWS\system32\cmd.exe
--- a/msptestapp/ajax/db_connection.php
+++ b/msptestapp/ajax/db_connection.php
@@ -3.7 +3.7 @@
// Connection variables
$host = ""; // MySQL host name eg. localhost
$user = ""; // MySQL user. eg. root ( if your on localserver )
$password = ""; // MySQL user password (if password is not set for your root user then keep it empty )
+$password = "password1234"; // MySQL user password (if password is not set for your root user then keep it empty )
$database = "test"; // MySQL Database name

// Connect to MySQL Database

D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   msptestapp/ajax/db_connection.php

no changes added to commit (use "git add" and/or "git commit -a")

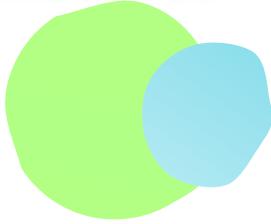
D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git rm --cached msptestapp\ajax\db_connection.php
rm 'msptestapp/ajax/db_connection.php'

D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git diff

D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git status -s
D msptestapp/ajax/db_connection.php
?? msptestapp/ajax/db_connection.php
```

Index에서만 파일을 삭제한다.

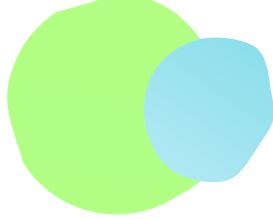
.gitignore



특정 경로의 파일, 폴더 및 하위 내용, 확장자 등을
Index로 올리지 않고 싶을 때 사용

저장소 루트에 .gitignore라는 파일을 만들어 사용
(윈도 탐색기에서는 이름이 없는 파일을 만들 수 없으니
cmd에서 만들어야 한다.)

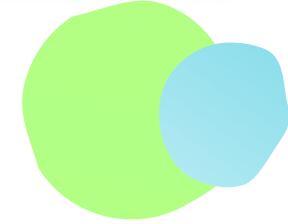
.gitignore (Cont'd)



```
C:\WINDOWS\system32\cmd.exe - vi .gitignore
msptestapp/ajax/db_connection.php
^Z
^.gitignore" 1L, 340 written
```

\가 아니라 /를 사용해야 함에 유의하여라.

.gitignore (Cont'd)



```
C:\WINDOWS\system32\cmd.exe
rm 'msptestapp/ajax/db_connection.php'
rm 'msptestapp/ajax/deleteUser.php'
rm 'msptestapp/ajax/readRecords.php'
rm 'msptestapp/ajax/readUserDetails.php'
rm 'msptestapp/ajax/updateUserDetails.php'
rm 'msptestapp/bootstrap-3.3.5-dist/css/bootstrap-theme.css'
rm 'msptestapp/bootstrap-3.3.5-dist/css/bootstrap-theme.css.map'
rm 'msptestapp/bootstrap-3.3.5-dist/css/bootstrap-theme.min.css'
rm 'msptestapp/bootstrap-3.3.5-dist/css/bootstrap.css'
rm 'msptestapp/bootstrap-3.3.5-dist/css/bootstrap.css.map'
rm 'msptestapp/bootstrap-3.3.5-dist/css/bootstrap.min.css'
rm 'msptestapp/bootstrap-3.3.5-dist/fonts/glyphicons-halflings-regular.eot'
rm 'msptestapp/bootstrap-3.3.5-dist/fonts/glyphicons-halflings-regular.svg'
rm 'msptestapp/bootstrap-3.3.5-dist/FONTS/glyphicons-halflings-regular.ttf'
rm 'msptestapp/bootstrap-3.3.5-dist/fonts/glyphicons-halflings-regular.woff'
rm 'msptestapp/bootstrap-3.3.5-dist/fonts/glyphicons-halflings-regular.woff2'
rm 'msptestapp/bootstrap-3.3.5-dist/js/bootstrap.js'
rm 'msptestapp/bootstrap-3.3.5-dist/js/bootstrap.min.js'
rm 'msptestapp/bootstrap-3.3.5-dist/js/npm.js'
rm 'msptestapp/index.php'
rm 'msptestapp/js/jquery-1.11.3.min.js'
rm 'msptestapp/js/script.js'

D:\KU\Grade 3 (2018)\MSP\ [18.07.12] 코딩봉사단 강의\github-hol>git add .
D:\KU\Grade 3 (2018)\MSP\ [18.07.12] 코딩봉사단 강의\github-hol>git status -s
A .gitignore
D msptestapp/ajax/db_connection.php

D:\KU\Grade 3 (2018)\MSP\ [18.07.12] 코딩봉사단 강의\github-hol>
```

파일이 있음에도 Deleted라고 인식된다.

단 이미 Staged인 경우 계속 추적되므로

rm --cached -r . 이후 add . 과정이 필요하다.

[5] 파일 삭제, 복구, .gitignore

- git rm -f msptestapp\ajax\db_connection.php
- 파일이 실제로 삭제된 것 확인
- git reset --hard HEAD
- msptestapp\ajax\db_connection.php 파일을 열고 6번째 줄의 \$password 값을 "password1234" 등의 임의로 변경한다.
- Level5 폴더 내의 .gitignore 파일을 저장소로 복사한다.
- git add .
- git status
- git rm --cached -r .
- git add .
- git status

(9) stash

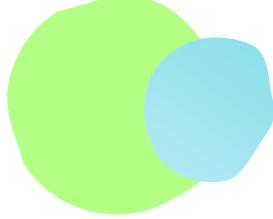
현재 Index를 임시로 저장하고
가장 최근 커밋의 상태로 되돌림 (reset --hard과 같은 결과)

stash list: 저장된 상태들 목록 보기

stash pop: 저장된 상태로 되돌리고 그 상태 삭제
(stash apply를 할 경우 임시 저장된 상태가 계속 남아있어
나중에 꼬일 수 있음)

[6] stash 써 보기

- git commit -m "Ignore db connectoin info"
- git rm .gitignore
- git status
- git stash
- git status
- git stash list
- git stash pop
- git reset --hard HEAD



```
C:\WINDOWS\system32\cmd.exe
msptestapp/ajax/db_connection.php

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의#github-hol>git stash
Saved working directory and index state WIP on master: c5d0339 Ignore db connection information

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의#github-hol>git stash list
stash@{0}: WIP on master: c5d0339 Ignore db connection information

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의#github-hol>git stash pop
Removing .gitignore
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    deleted:   .gitignore

Untracked files:
  (use "git add <file>..." to include in what will be committed)

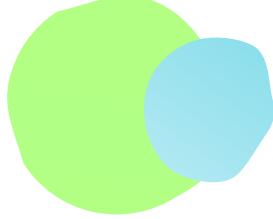
    msptestapp/ajax/db_connection.php

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (82e6f8cdbeef744141f0b64b3db65958f1a537b6)

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의#github-hol>git reset --hard HEAD
HEAD is now at c5d0339 Ignore db connection information

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의#github-hol>
```

(4) commit --amend



```
C:\WINDOWS\system32\cmd.exe - git log
commit ef71038d5c5a5a4f0534f161fa0f2d6437bee8f8 (HEAD -> master)
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 17:15:09 2018 +0900

    Ignore db connectoin info  connectoin? 오타!

commit 3e65aff949c8c9802971e2de462d75edf6f6929e
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 14:32:13 2018 +0900

    Add implementation

commit 7224ee0b992275216d1483cb964a0e5f68cf9698
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 14:16:24 2018 +0900

    Add dependency: jquery

commit ba26a5fa11217b5c2d9f5270b002b428ef88fdf7
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 14:16:05 2018 +0900

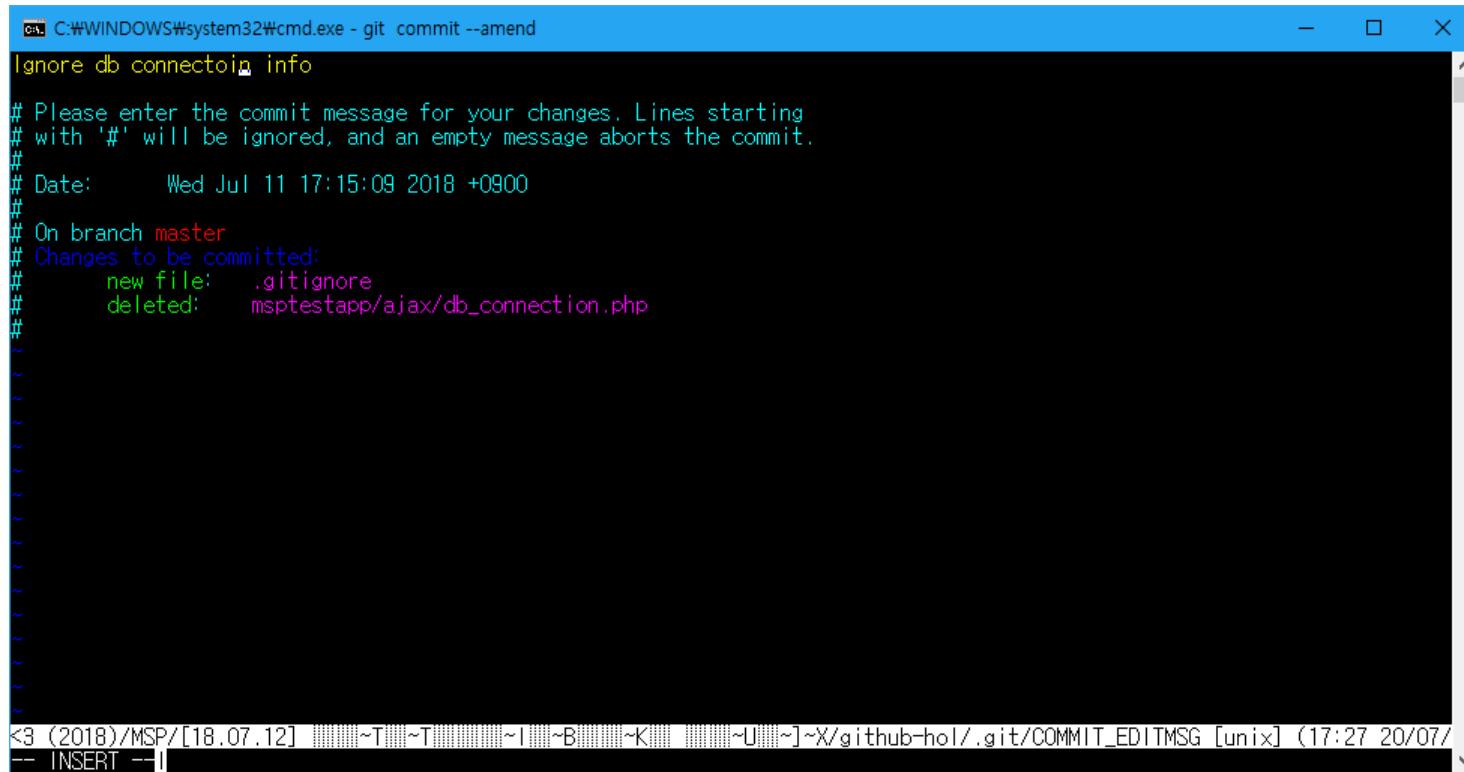
    Add dependency: bootstrap

commit 015fbe5d3241758226289f9a6f234840daa6341f
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 11:48:59 2018 +0900

    Add readme
```

오타 하나 고치자고 reset, commit을 다시 하기에는 귀찮다

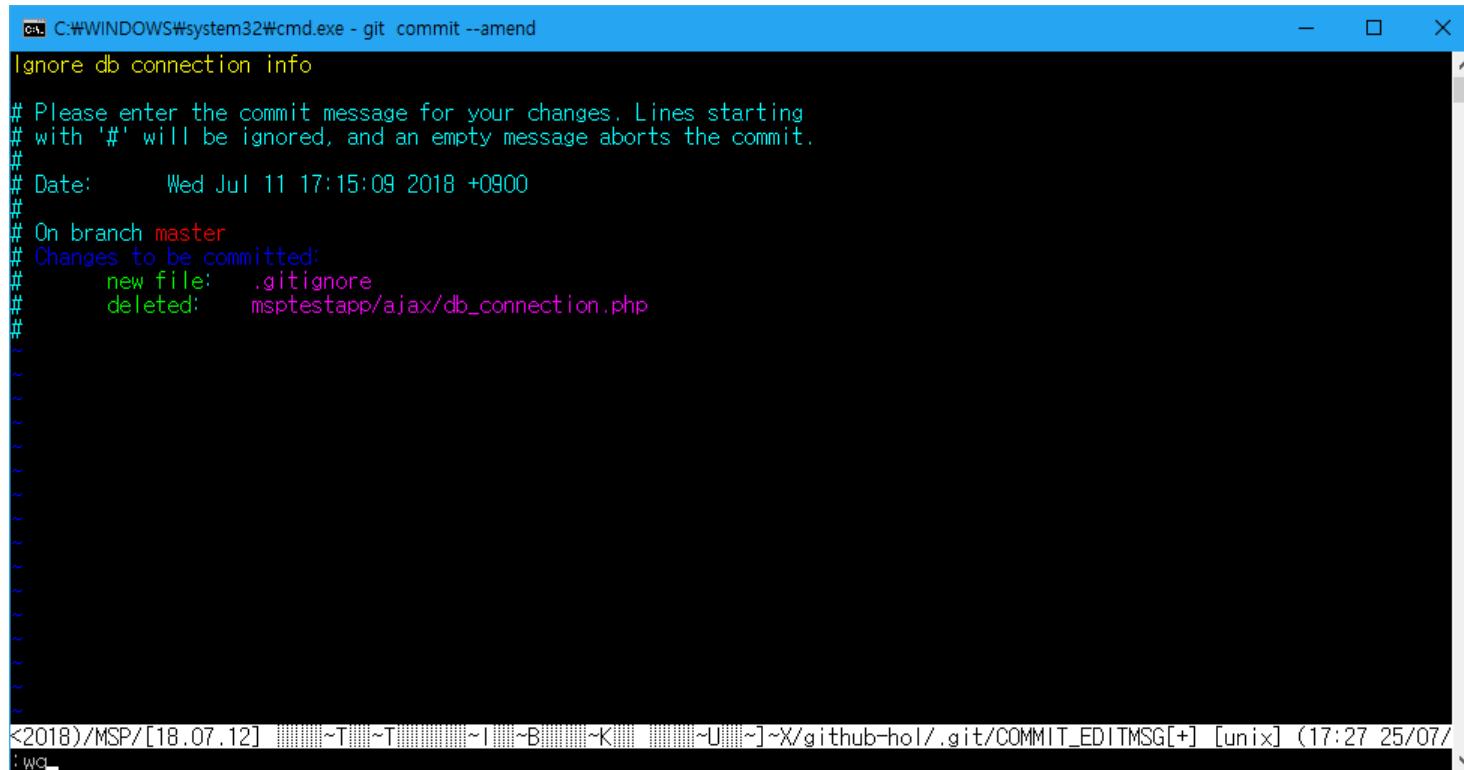
(4) commit --amend (*Cont'd*)



vi로 잘못된 부분 수정 후 저장하고 나가면 완료

수정 모드: i, 삭제: Esc X, 저장하고 나가기: Esc :wq

(4) commit --amend (*Cont'd*)



vi로 잘못된 부분 수정 후 저장하고 나가면 완료
수정 모드: i, 삭제: Esc X, 저장하고 나가기: Esc :wq

[7] 커밋 메시지 바꾸기

- git commit --amend
- vi로 내용을 수정한다.
- git log

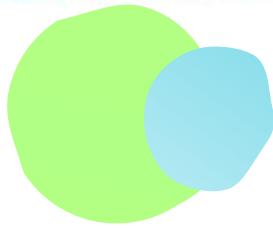
```
C:\#WINDOWS\system32#cmd.exe
D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git log --oneline
b63fed9 (HEAD -> master) Ignore db connectoin info
3e65aff Add implementation
7224ee0 Add dependency: jquery
ba26a5f Add dependency: bootstrap
015fbe5 Add readme
36a4413 Initial commit

D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git commit --amend
[master b5b1ee3] Ignore db connection info
Date: Wed Jul 11 17:15:09 2018 +0900
2 files changed, 1 insertion(+), 15 deletions(-)
create mode 100644 .gitignore
delete mode 100644 msptestapp/ajax/db_connection.php

D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git log --oneline
b5b1ee3 (HEAD -> master) Ignore db connection info
3e65aff Add implementation
7224ee0 Add dependency: jquery
ba26a5f Add dependency: bootstrap
015fbe5 Add readme
36a4413 Initial commit

D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

(10) rebase --interactive



현 상황의 base, 즉 이전 커밋들을 조정

본래 rebase는 브랜치 간 작업에서 빛을 발하지만
일단 예전 커밋 메시지를 바꾸기 위해
interactive 모드를 사용해 보자.

(10) rebase --interactive (*Cont'd*)

```
git C:\WINDOWS\system32\cmd.exe - git rebase --interactive HEAD~2
pick 3eB5aff Add implementation
pick b5b1ee3 Ignore db connection info

# Rebase 7224ee0..b5b1ee3 onto 7224ee0 (2 commands)
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out
#
#
#
#
<[18.07.12] ~T~T~I~B~K~U~]~X/github-hol/.git/rebase-merge/git-rebase-todo [unix] (21:24 11/07
/2018)1,1 ALL
```

(10) rebase --interactive (*Cont'd*)

```
git C:\WINDOWS\system32\cmd.exe - git rebase --interactive HEAD~2
edit 3eB5aff Add implementation
pick b5b1ee3 Ignore db connection info

# Rebase 7224ee0..b5b1ee3 onto 7224ee0 (2 commands)
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out
#
#
#
#
#
<07.12] ~T~T~I~B~K~U~]~X/github-hol/.git/rebase-merge/git-rebase-todo[+] [unix] (21:24 41/04
:wq
```

(10) rebase --interactive (Cont'd)

```
C:\WINDOWS\system32\cmd.exe
On branch master
nothing to commit, working tree clean

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의>git rebase --interactive HEAD~2
error: The following untracked working tree files would be overwritten by merge:
    msptestapp/ajax/db_connection.php
Please move or remove them before you merge.
Aborting
Could not apply 3e65aff... Add implementation

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의>git status
interactive rebase in progress; onto 7224ee0
Last command done (1 command done):
  edit 3e65aff Add implementation
Next commands to do (2 remaining commands):
  edit 3e65aff Add implementation
  pick b5b1ee3 Ignore db connection info
  (use "git rebase --edit-todo" to view and edit)
You are currently editing a commit while rebasing branch 'master' on '7224ee0'.
  (use "git commit --amend" to amend the current commit)
  (use "git rebase --continue" once you are satisfied with your changes)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    msptestapp/ajax/

nothing added to commit but untracked files present (use "git add" to track)
D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의>
```

오류 발생!
.gitignore 때문에 그렇다.

(10) rebase --interactive (Cont'd)

```
C:\WINDOWS\system32\cmd.exe
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git rebase --continue
Stopped at 3e65aff... Add implementation
You can amend the commit now, with

  git commit --amend

Once you are satisfied with your changes, run

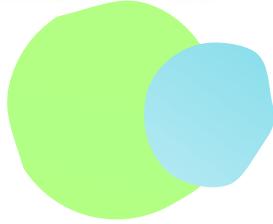
  git rebase --continue

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git commit --amend
[detached HEAD b7b16c1] Implement service
Date: Wed Jul 11 14:32:13 2018 +0900
8 files changed, 381 insertions(+)
create mode 100644 msptestapp/ajax/addRecord.php
create mode 100644 msptestapp/ajax/db_connection.php
create mode 100644 msptestapp/ajax/deleteUser.php
create mode 100644 msptestapp/ajax/readRecords.php
create mode 100644 msptestapp/ajax/readUserDetails.php
create mode 100644 msptestapp/ajax/updateUserDetails.php
create mode 100644 msptestapp/index.php
create mode 100644 msptestapp/js/script.js

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git rebase --continue
Successfully rebased and updated refs/heads/master.

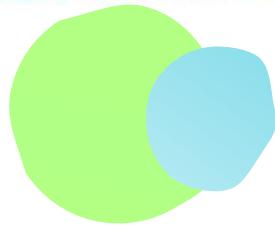
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

[8] 예전 커밋 메시지 바꾸기



- git rebase --interactive HEAD~2
- 첫째 줄의 pick을 edit으로 바꾸고 저장한다.
- 에러가 발생하는 것을 확인하고 msptestapp\ajax 폴더를 삭제한다.
- git rebase --continue
- "Stopped at *b5b1ee3... Add implementation*" 문구를 확인한다.
- git commit --amend
- 커밋 메시지를 "Implement service"로 바꾸고 저장한다.
- git rebase --continue

브랜치

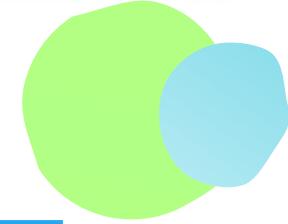


가지치기

코드를 통째로 복사하고 나서

원래 코드와는 상관없이 독립적으로 개발 진행

(11) branch



```
C:\WINDOWS\system32\cmd.exe
D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git status
On branch master
nothing to commit, working tree clean

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch
* master

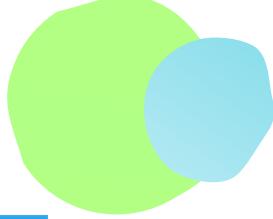
D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch query-add

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch
* master
  query-add

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>
```

현재 커밋을 가리키는 새로운 브랜치 만들기

(11) Branch -d



```
C:\WINDOWS\system32\cmd.exe
D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git status
On branch master
nothing to commit, working tree clean

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch
* master

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch query-add
D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch
* master
  query-add
    query-adddx

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch query-adddx
D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch
* master
  query-add
    query-adddx

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch -d query-adddx
Deleted branch query-adddx (was b78e63d).

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>git branch
* master
  query-add

D:\KU\Grade 3 (2018)\MSP[18.07.12] 코딩 봉사단 강의\github-hol>
```

필요 없는 브랜치 삭제

(12) checkout

```
C:\WINDOWS\system32\cmd.exe
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch
* master
  query-add

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch query-adddx
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch
* master
  query-add
  query-adddx

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch -d query-adddx
Deleted branch query-adddx (was b78e63d).

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch
* master
  query-add

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git checkout query-add
Switched to branch 'query-add'

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch
  master
* query-add

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git status
On branch query-add
nothing to commit, working tree clean

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

해당 브랜치로 이동

(12) checkout -b



```
C:\WINDOWS\system32\cmd.exe
query-add
query-adddx

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch -d query-adddx
Deleted branch query-adddx (was b78e63d).

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch
* master
  query-add

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git checkout query-add
Switched to branch 'query-add'

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch
  master
* query-add

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git status
On branch query-add
nothing to commit, working tree clean

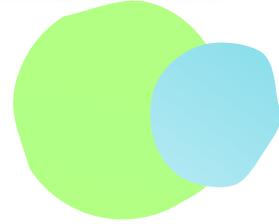
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git checkout -b query-delete
Switched to a new branch 'query-delete'

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>git branch
  master
  query-add
* query-delete

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

브랜치를 만들면서 이동

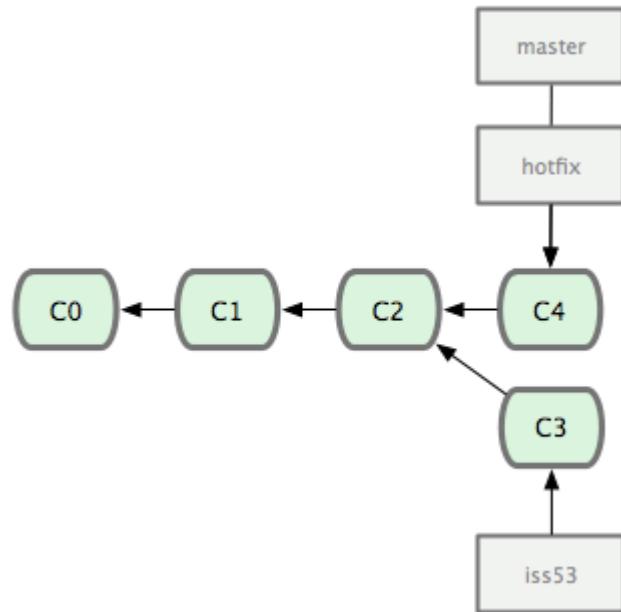
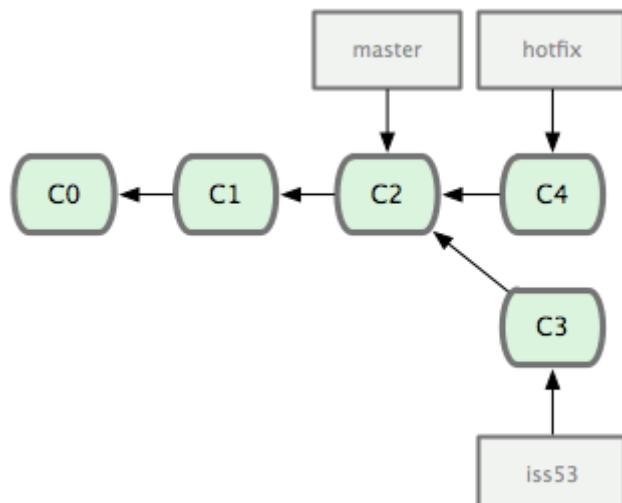
[9] 브랜치 옮겨다니며 작업하기



- git branch query-add
- git checkout query-add
- msptestapp\ajax\addRecord.php:L12 \$query 값을 "INSERT VALUES INTO DB" 등 임의로 변경한다.
- git commit -a -m "query: implement add"
- git checkout master
- git checkout -b query-delete
- msptestapp\ajax\deleteUser.php:L12 \$query 값을 "DELETE FROM DB" 등 임의로 변경한다.
- git commit -a -m "query: implement delete"
- git checkout master
- git checkout -b query-delete-2
- msptestapp\ajax\deleteUser.php:L12 \$query 값을 "DROP DB" 등 임의로 변경한다.
- git commit -a -m "query: implement delete with drop"
- git checkout master
- **git branch**

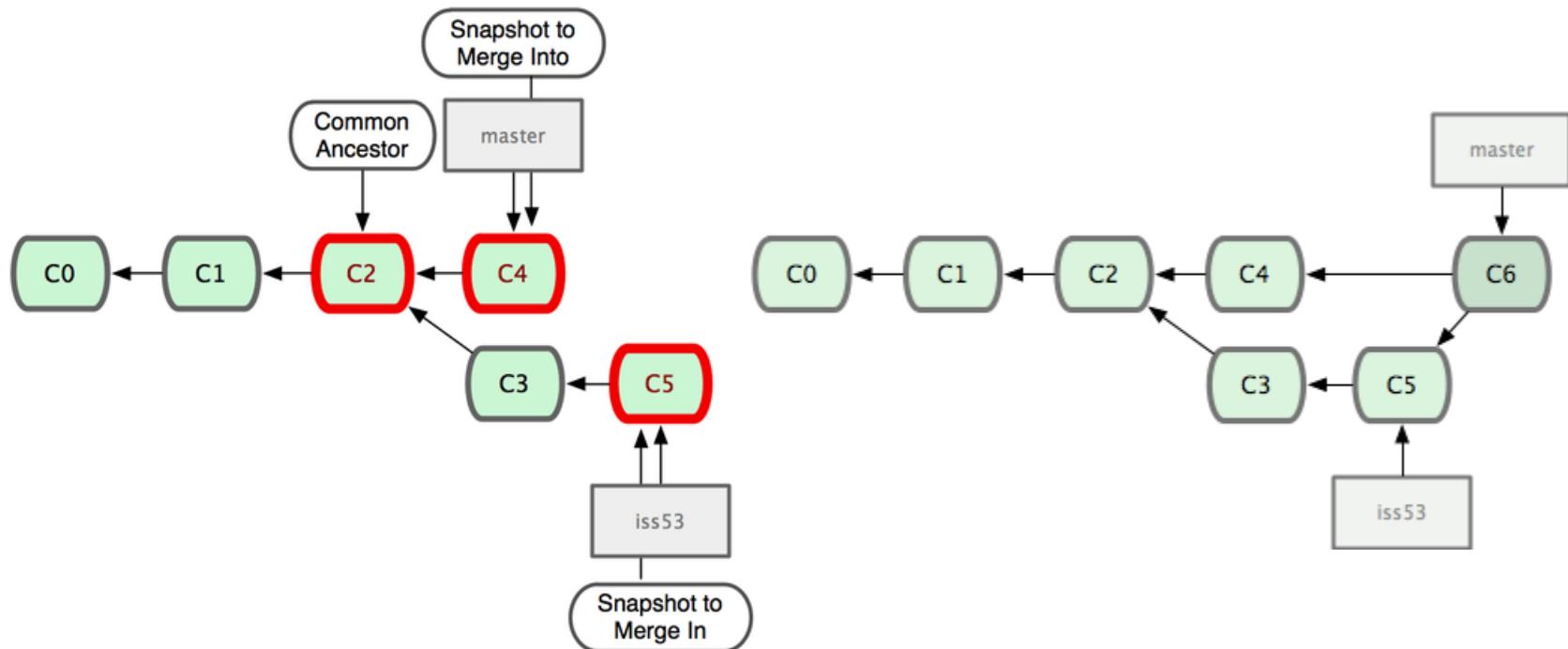
(13) merge

- Fast-forward

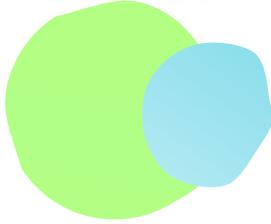


(13) merge

- Non-fast-forward: 3-way merge



Conflict



병합을없앱시다(병합은나의원수)

우리가 2년 동안코드를 작성했는데

없黢 병합 작업이 충돌을발

생시켰습니다 병합을죽입시다코

드는 아주좋았습니다 코드

는아직않뻗었는데싸가지엄는

병합이 터뜨렸습니다 조심하십시오

개미를죽입시다(개미는나의원수)
우리가 2년 동안달팽이를키웠는데
없잖봉개 미새끼가 달팽이를죽였습니다
개미를죽였습니다 달팽이는 아주착했습니다.
만약아직안죽었는데씨가지어는
불개미가죽었었습니다 조심하십시오

Conflict (*Cont'd*)

<<<<<< HEAD

(현재 HEAD에 있는 내용)

=====

(병합하고자 하는 브랜치에서 위와 충돌하는 내용)

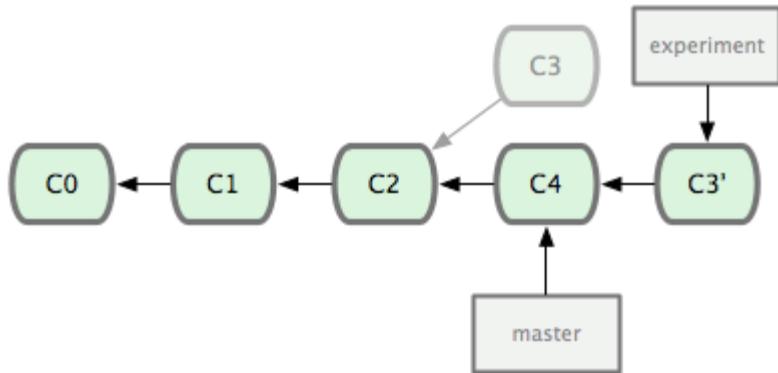
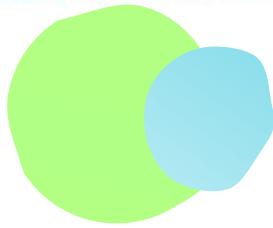
>>>>> query-delete-2

읽어보고 알아서 잘 해결 후 git add

변경하지 않으면 저 내용이 그대로 들어간다.

그 예시는 결과 저장소에서 볼 수 있다.

(10) rebase



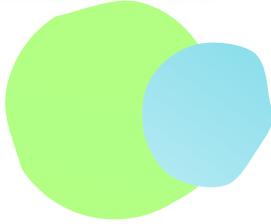
C3의 base를 C2에서 C4로 변경
로그가 깔끔해지는 장점이 있다.

[10] 병합, 충돌 해결하기

- git merge query-add
- Fast-forward로 병합됨을 확인한다.
- git checkout query-delete
- git rebase master
- git checkout master
- git merge query-delete
- Fast-forward로 병합됨을 확인한다.
- git merge query-delete-2
- 충돌이 발생함을 확인하고, msptestapp\ajax\deleteUser.php:L12-16을 1줄로 만들며 \$query의 값을 "DELETE FROM DB or DROP DB" 등 임의로 변경한다.
- git add .
- git commit
- 커밋 메시지를 확인하고 vi에서 나온다.
- git log --oneline --graph

```
D:\KKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의>git log --oneline --graph
* 5fb2dd1 (HEAD -> master) Merge branch 'query-delete-2'
|#
| * a891950 (query-delete-2) query: implement delete with drop
| * cc65a8b (query-delete) query: implement delete
| * fc5fbfb6 (query-add) query: implement add
|/
* b78e63d Ignore db connection info
* b7b16c1 Implement service
```

(14) tag



```
C:\WINDOWS\system32\cmd.exe
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>git log --oneline --graph
* 5fb2dd1 (HEAD -> master) Merge branch 'query-delete-2'
|\
| * a891950 (query-delete-2) query: implement delete with drop
| * cc65a8b (query-delete) query: implement delete
| * fc56fb6 (query-add) query: implement add
|
* b78e63d Ignore db connection info
* b7b16c1 Implement service
* 28cd858 Add dependency: jquery
* ba26a5f Add dependency: bootstrap
* 015fbe5 Add readme
* 36a4413 Initial commit

D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>git tag
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>git tag
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>git tag v0.1 b78e63d
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>git tag
v0.1
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>git tag v0.2
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>git tag
v0.1
v0.2
D:\KU\Grade 3 (2018)\MSPW[18.07.12] 코딩 봉사단 강의\github-hol>
```

커밋에 태그 붙이기

(15) reflog



```
C:\WINDOWS\system32\cmd.exe
b78e63d (HEAD -> master) HEAD@{0}: rebase -i (finish): returning to refs/heads/master
b78e63d (HEAD -> master) HEAD@{1}: rebase -i (pick): Ignore db connection info
b7b16c1 HEAD@{2}: commit (amend): Implement service
90f8832 HEAD@{3}: rebase -i (edit): Add implementation
28cd358 HEAD@{4}: commit (amend): Add dependency: jquery
7224ee0 HEAD@{5}: rebase -i (start): checkout HEAD~2
b5b1ee3 HEAD@{6}: rebase -i (abort): updating HEAD
b5b1ee3 HEAD@{7}: rebase: aborting
7224ee0 HEAD@{8}: rebase -i (start): checkout HEAD~2
b5b1ee3 HEAD@{9}: commit (amend): Ignore db connection info
8c3fed9 HEAD@{10}: commit (amend): Ignore db connectoin info
fdd2dbb HEAD@{11}: commit (amend): Ignore db connection info
ef71038 HEAD@{12}: commit (amend): Ignore db connectoin info
75c94c6 HEAD@{13}: commit (amend): Ignore db connection info
c5d0339 HEAD@{14}: reset: moving to HEAD
c5d0339 HEAD@{15}: reset: moving to HEAD
c5d0339 HEAD@{16}: commit: Ignore db connection information
3e65aff HEAD@{17}: reset: moving to HEAD
3e65aff HEAD@{18}: reset: moving to HEAD
3e65aff HEAD@{19}: reset: moving to HEAD
3e65aff HEAD@{20}: reset: moving to HEAD
3e65aff HEAD@{21}: reset: moving to HEAD
3e65aff HEAD@{22}: reset: moving to HEAD
3e65aff HEAD@{23}: commit: Add implementation
7224ee0 HEAD@{24}: commit: Add dependency: jquery
ba26a5f HEAD@{25}: commit: Add dependency: bootstrap
015fbe5 HEAD@{26}: commit: Add readme
36a4413 HEAD@{27}: commit (initial): Initial commit

D:\WKU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\github-hol>
```

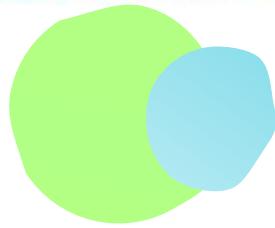
지금까지 거쳐온 모든 커밋들 보기



Chapter 2

GITHUB

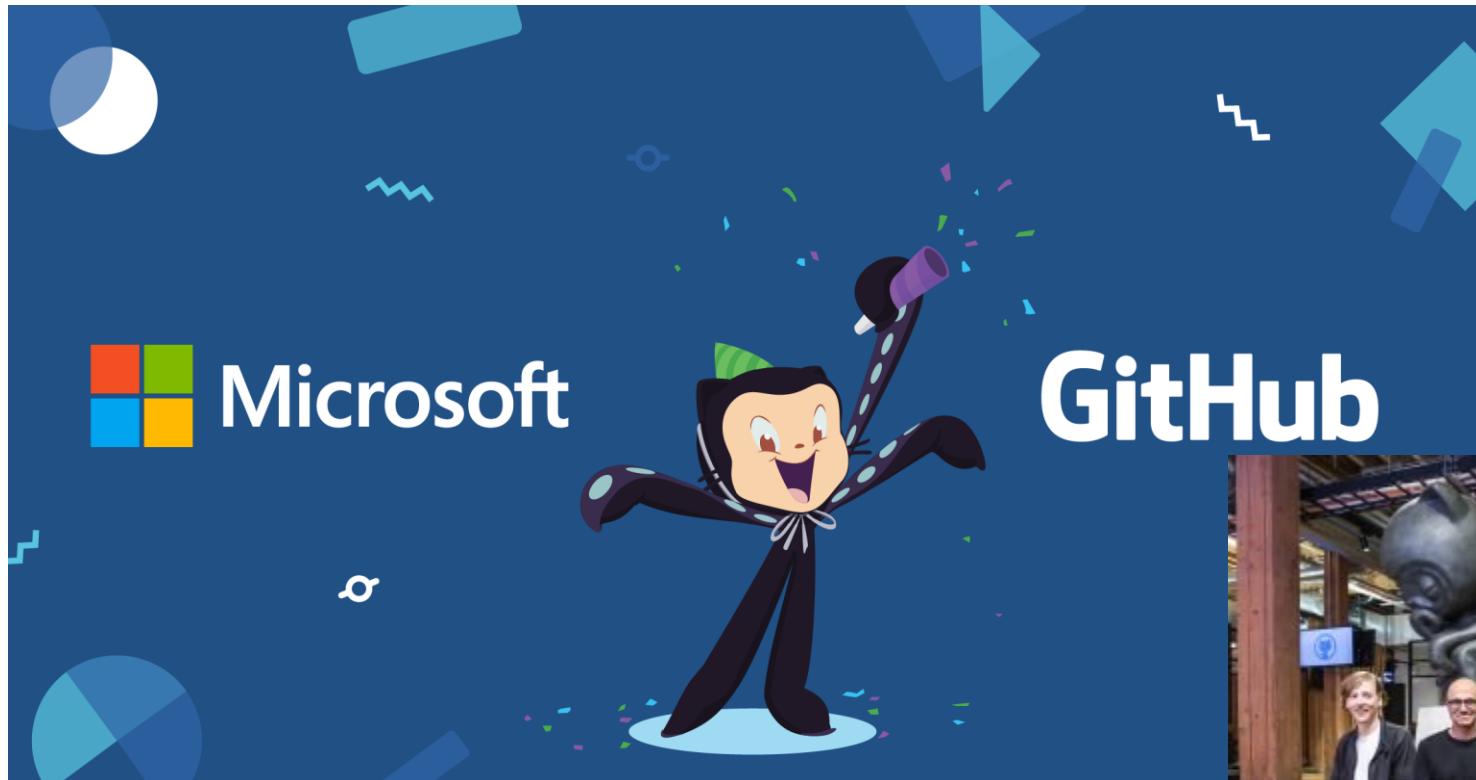
GitHub란?



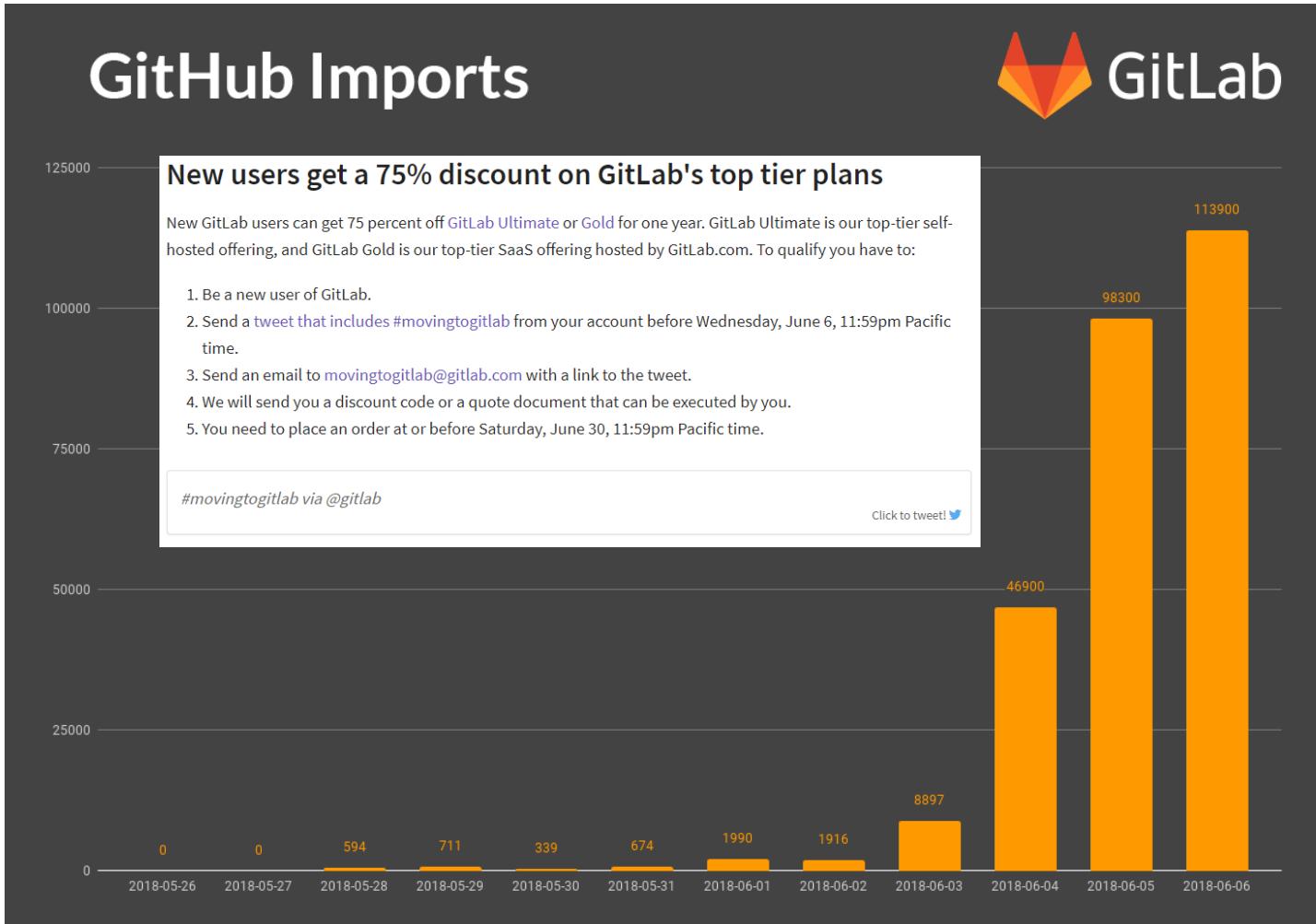
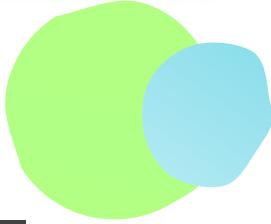
Remote Git 저장소를 제공해 주는 사이트

Fork, Pull Request 등의 자체 기능 제공

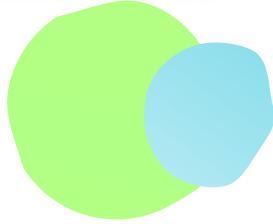
Microsoft + GitHub



KEEP CALM AND USE GITHUB



Why GitHub?



많이 쓰니까

포트폴리오 (회사에서 보니까)

Fork/PR, 이슈 트래커, Wiki, Pages 등



Chapter 2-1

GITHUB: 가입

Git 실습 Github 회원가입

가입정보 기입

Join GitHub
The best way to design, build, and ship software.

Step 1: Set up a personal account Step 2: Choose your plan Step 3: Go to your dashboard

Create your personal account

Username

This will be your username — you can enter your organization's username next.

Email Address

You will occasionally receive account related emails. We promise not to share your email with anyone.

Password

Use at least one lowercase letter, one numeral, and seven characters.

By clicking on "Create an account" below, you are agreeing to the [Terms of Service](#) and the [Privacy Policy](#).

Create an account

<https://github.com/join>

Git 실습 Github 메일인증하기

본인 메일확인해서 버튼 누르기



Hi @yukult400!

Help us secure your GitHub account by verifying your email address
(yukult400@naver.com). This lets you access all of GitHub's features.

Verify email address

Button not working? Paste the following link into your browser:

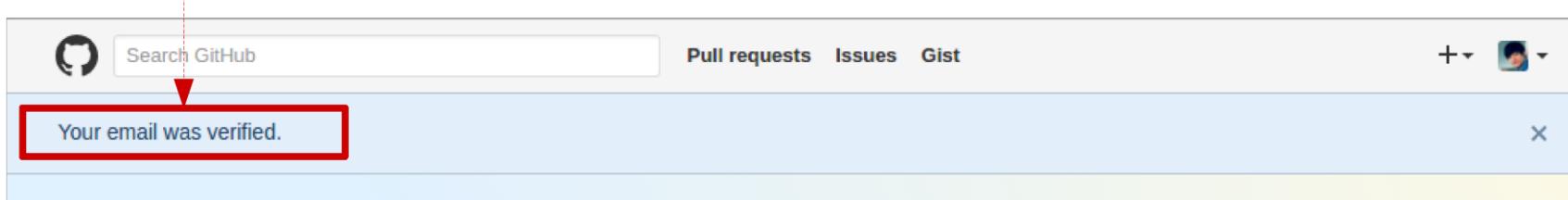
https://github.com/users/yukult400/emails/21042026/confirm_verification/388b1d3024fc012d64848df72d2d8fc4d7dc3b5a

You're receiving this email because you recently created a new GitHub account or added a new email address. If this wasn't you, please ignore this email.

GitHub

Git 실습 Github 메일인증하기

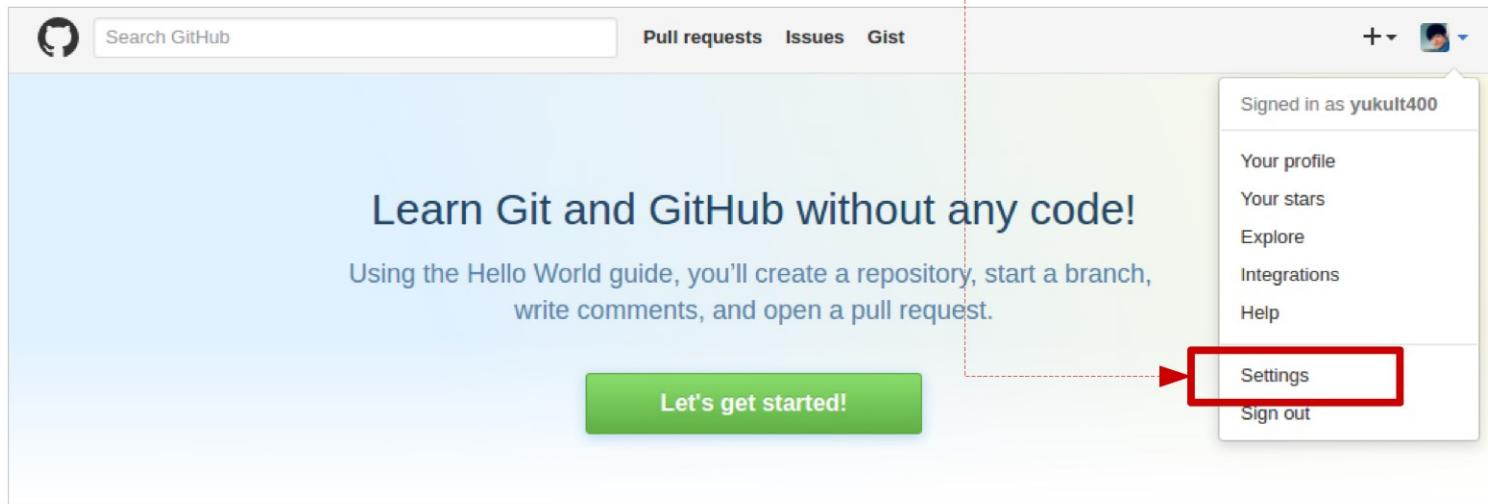
다시 Github 접속해서 메일인증 확인하기



<http://github.com>

Git 실습 Github 메일인증하기

기다려도 메일이 혹시 안왔으면 설정버튼



<http://github.com>

Git 실습 Github 메일인증하기

메일이 혹시 안왔으면 인증메일 다시 보내기

The screenshot shows the GitHub 'Personal settings' section with a red box highlighting the 'Emails' tab. Below it, a message says 'Verification email sent. Resend' with a trash icon. A red box also highlights this message.

Personal settings

Profile

Account

Emails ⚠

Notifications

Billing

SSH keys

Search GitHub

Pull requests Issues Gist

+

+

Email

Your primary GitHub email address will be used for account-related notifications (e.g. account changes and billing receipts) as well as any web-based GitHub operations (e.g. edits and merges).

Please verify an email address to collaborate on GitHub, receive notifications, and help us protect your account.

yukult400@naver.com Primary Public Unverified

Add email address

Add

Verification email sent. Resend ✖

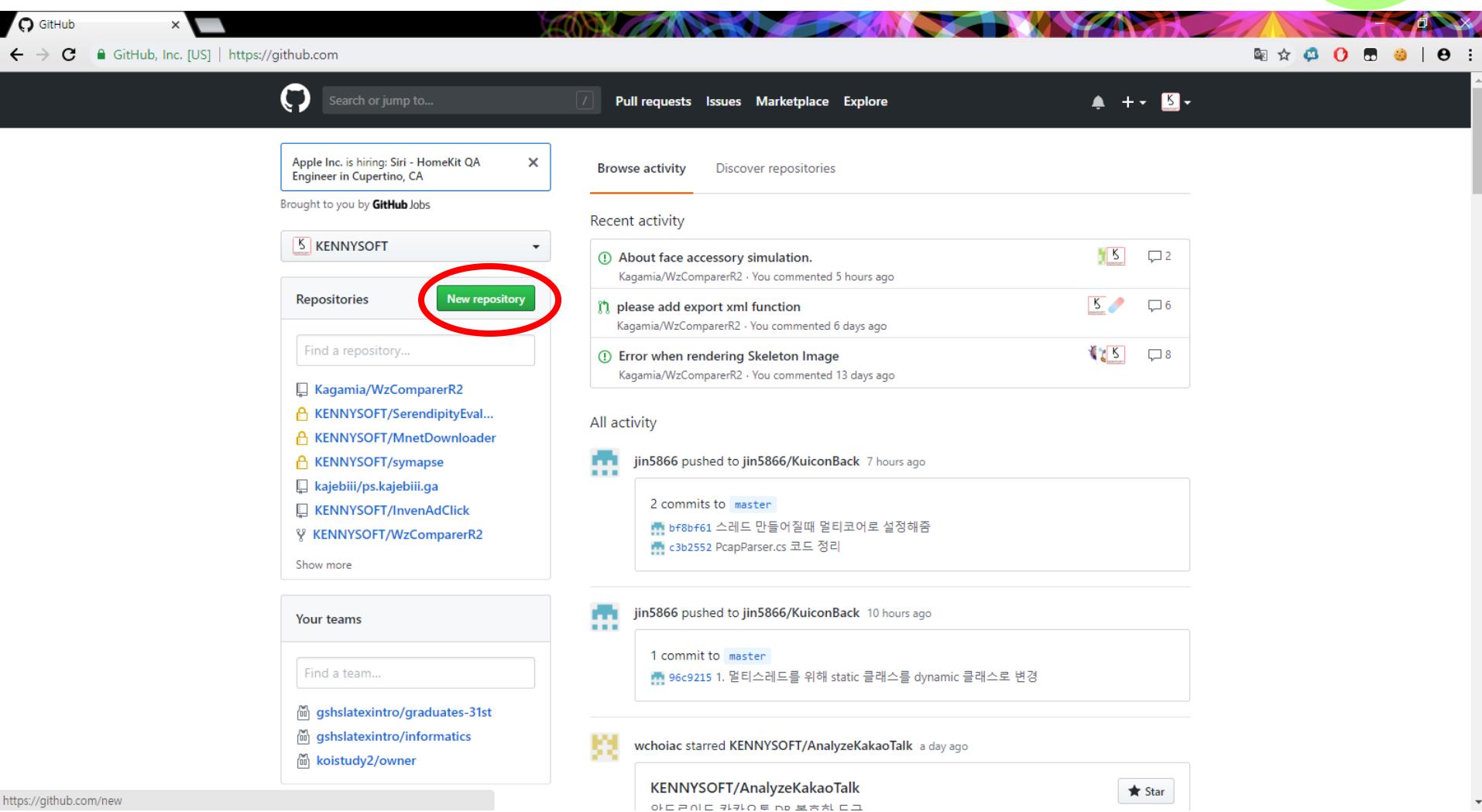
<https://github.com/settings/emails>



Chapter 2-2

GITHUB: 가능 및 실습

[0] 저장소 만들기



The screenshot shows the GitHub homepage. On the left, there's a sidebar with sections for 'Repositories' (containing 'KENNYSOFT/WzComparerR2', 'KENNYSOFT/SerendipityEval...', etc.) and 'Your teams' (containing 'gshslatextintro/graduates-31st', 'gshslatextintro/informatics', and 'koistudy2/owner'). The main area has a search bar and navigation links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. A banner at the top says 'Apple Inc. is hiring: Siri - HomeKit QA Engineer in Cupertino, CA'. Below the banner, it says 'Brought to you by GitHub Jobs'. A green 'New repository' button in the 'Repositories' section is circled in red. The right side shows 'Recent activity' with several items from 'Kagamia/WzComparerR2' and 'All activity' with pushes from 'jin5866' and a star from 'wchoiac' for 'KENNYSOFT/AnalyzeKakaoTalk'.

Apple Inc. is hiring: Siri - HomeKit QA Engineer in Cupertino, CA

Brought to you by GitHub Jobs

KENNYSOFT

New repository

Repositories

Find a repository...

- Kagamia/WzComparerR2
- KENNYSOFT/SerendipityEval...
- KENNYSOFT/MnetDownloader
- KENNYSOFT/symapse
- kajebiii/ps.kajebiii.ga
- KENNYSOFT/InvenAdClick
- KENNYSOFT/WzComparerR2

Show more

Your teams

Find a team...

- gshslatextintro/graduates-31st
- gshslatextintro/informatics
- koistudy2/owner

Pull requests Issues Marketplace Explore

Browse activity Discover repositories

Recent activity

- About face accessory simulation. Kagamia/WzComparerR2 · You commented 5 hours ago
- please add export xml function Kagamia/WzComparerR2 · You commented 6 days ago
- Error when rendering Skeleton Image Kagamia/WzComparerR2 · You commented 13 days ago

All activity

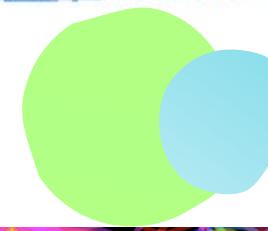
- jin5866 pushed to jin5866/KuiconBack 7 hours ago
 - 2 commits to master
 - bf8bf61 스레드 만들어질때 멀티코어로 설정해줌
 - c3b2552 PcapParser.cs 코드 정리
- jin5866 pushed to jin5866/KuiconBack 10 hours ago
 - 1 commit to master
 - 96c9215 1. 멀티스레드를 위해 static 클래스를 dynamic 클래스로 변경
- wchoiac starred KENNYSOFT/AnalyzeKakaoTalk a day ago

KENNYSOFT/AnalyzeKakaoTalk

Star

<https://github.com/new>

[0] 저장소 만들기 (*Cont'd*)



Create a New Repository X

GitHub, Inc. [US] | https://github.com/new

Search or jump to... / Pull requests Issues Marketplace Explore

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: KENNYSOFT / Repository name: github-hol ✓

Great repository names are short and memorable. Need inspiration? How about friendly-barnacle.

Description (optional): GitHub Hands-On Lab (7/12)

Public: Anyone can see this repository. You choose who can commit.

Private: You choose who can see and commit to this repository.

Initialize this repository with a README: This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

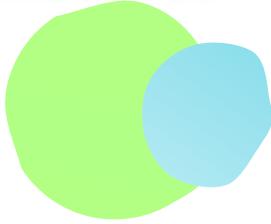
Add .gitignore: None | Add a license: None | ⓘ

Create repository

© 2018 GitHub, Inc. Terms Privacy Security Status Help

Contact GitHub API Training Shop Blog About

(16) push



원격 저장소에 브랜치 올리기

-f: Fast-forward가 아니어도 강제로 올림

-u / --set-upstream:

이번에 지정한 remot와 브랜치를 기본 값으로 사용

[1] 원격 저장소 주소 추가, push

- git remote add origin
<https://github.com/KENNYSOFT/github-hol.git>
- git remote -v
- git push -u origin master

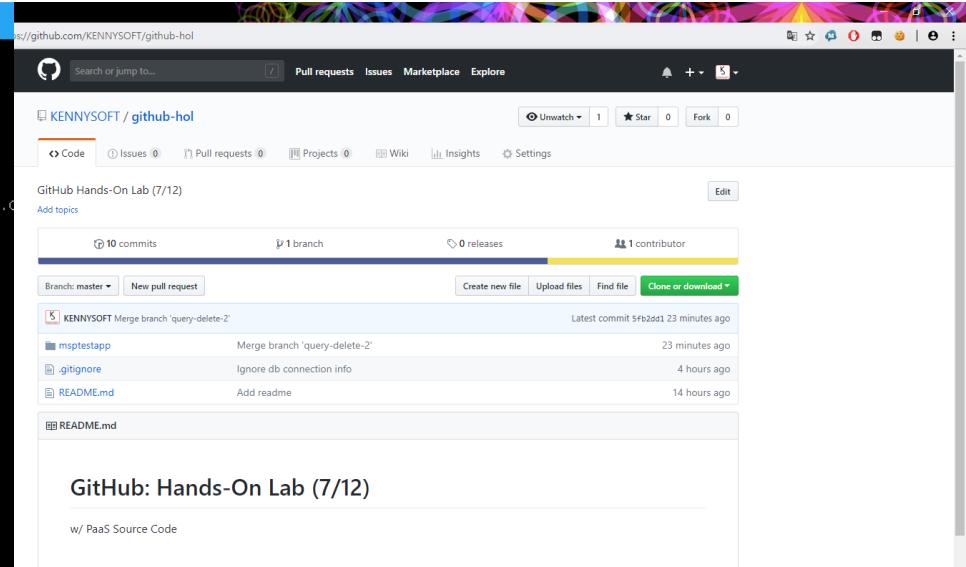
```
C:\#WINDOWS#system32#cmd.exe
or: git remote set-url --add <name> <newurl>
or: git remote set-url --delete <name> <url>
-v, --verbose      be verbose; must be placed before a subcommand

D:\#KU\Grade 3 (2018)\#MSPL\# [18.07.12] 코딩봉사단 강의\#github-hol>git remote -v
D:\#KU\Grade 3 (2018)\#MSPL\# [18.07.12] 코딩봉사단 강의\#github-hol>git remote add origin https://github.com/KENNYSOFT/github-hol.git
D:\#KU\Grade 3 (2018)\#MSPL\# [18.07.12] 코딩봉사단 강의\#github-hol>git remote -v
origin  https://github.com/KENNYSOFT/github-hol.git (fetch)
origin  https://github.com/KENNYSOFT/github-hol.git (push)

D:\#KU\Grade 3 (2018)\#MSPL\# [18.07.12] 코딩봉사단 강의\#github-hol>git remote
origin

D:\#KU\Grade 3 (2018)\#MSPL\# [18.07.12] 코딩봉사단 강의\#github-hol>git push -u origin master
Counting objects: 72, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (67/67), done.
Writing objects: 100% (72/72), 298.44 KiB | 3.98 MiB/s, done.
Total 72 (delta 23), reused 0 (delta 0)
remote: Resolving deltas: 100% (23/23), done.
To https://github.com/KENNYSOFT/github-hol.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

D:\#KU\Grade 3 (2018)\#MSPL\# [18.07.12] 코딩봉사단 강의\#github-hol>
```



[2] tag

- git tag v0.2
- git tag v0.1 *b78e63d*
- git push --tags



```
C:\> C:\WINDOWS\system32\cmd.exe
commit cc5cb8ae205d433ea2c08b11cc7e6703ca (query-delete)
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Thu Jul 11 12:00:50 2018 +0900

    query: element delete

commit a89b901d7ee4a1db29d4410a3da831ec378 (query-delete-2)
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Thu Jul 11 12:00:52 2018 +0900

    query: element delete with drop

commit fc5be338302c7983815e9f8c5f3aec9ea075 (query-add)
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Thu Jul 11 12:00:49 2018 +0900

    query: element add

commit b78e63d27ac8f0a3ae8a7450e71cb4aee3cfaf632 (tag: v0.1)
Author: KENNYSOFT <hyeonmin.park@kennyssoft.kr>
Date:   Wed Jul 11 17:15:09 2018 +0900

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의\github-hol>git push --tags
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/KENNYSOFT/github-hol.git
 * [new tag]           v0.1 -> v0.1
 * [new tag]           v0.2 -> v0.2

D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의\github-hol>
```

[3] Release

The screenshot shows a GitHub repository page for 'KENNYSOFT/github-hol'. The top navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. Below the header, the repository name 'KENNYSOFT / github-hol' is displayed, along with metrics: 1 unwatched, 0 stars, and 0 forks. A red circle highlights the '2 releases' link in the top navigation bar. The main content area shows a summary of activity: 10 commits, 1 branch, 2 releases, and 1 contributor. Below this, a list of recent commits is shown, including a merge from 'query-delete-2' by 'msptestapp' and file additions like '.gitignore' and 'README.md'. At the bottom, there is a section titled 'GitHub: Hands-On Lab (7/12)' with a note about PaaS source code.

KENNYSOFT / github-hol

Search or jump to... / Pull requests Issues Marketplace Explore

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

GitHub Hands-On Lab (7/12) Edit

Add topics

10 commits 1 branch 2 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

KENNYSOFT Merge branch 'query-delete-2' Latest commit 5fb2dd1 44 minutes ago

msptestapp Merge branch 'query-delete-2' 44 minutes ago

.gitignore Ignore db connection info 4 hours ago

README.md Add readme 14 hours ago

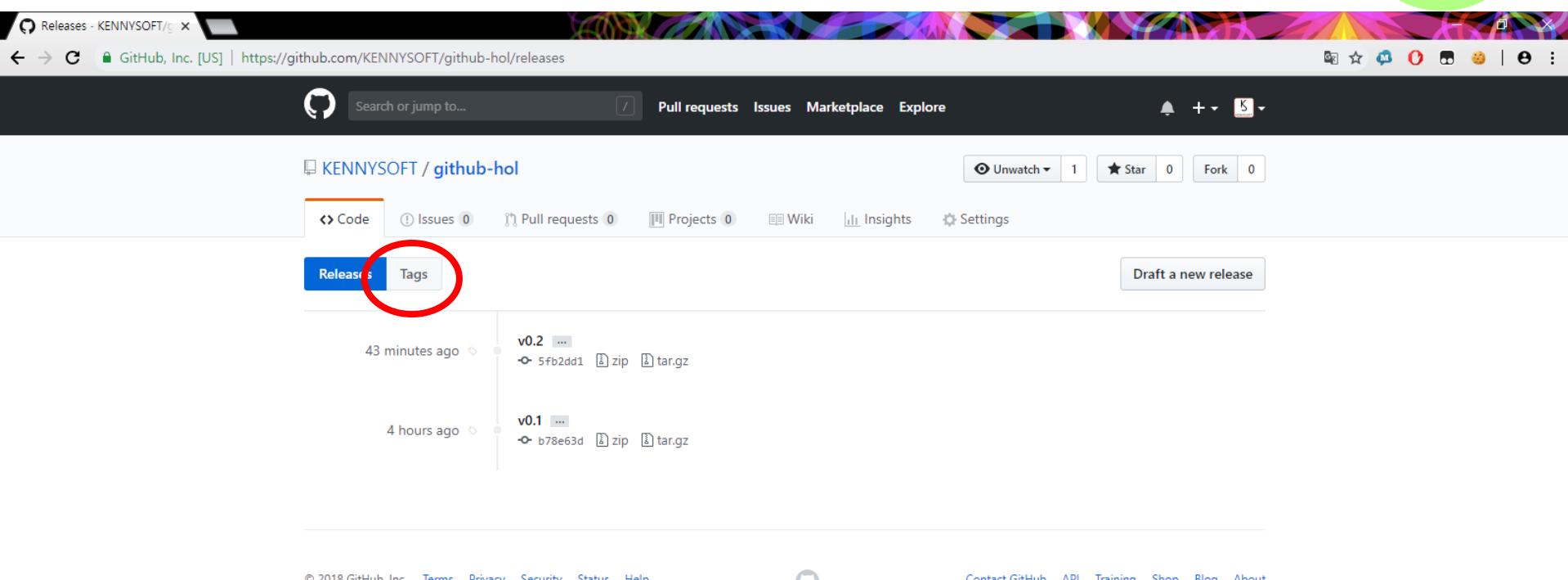
README.md

GitHub: Hands-On Lab (7/12)

w/ PaaS Source Code

<https://github.com/KENNYSOFT/github-hol/releases>

[3] Release (Cont'd)



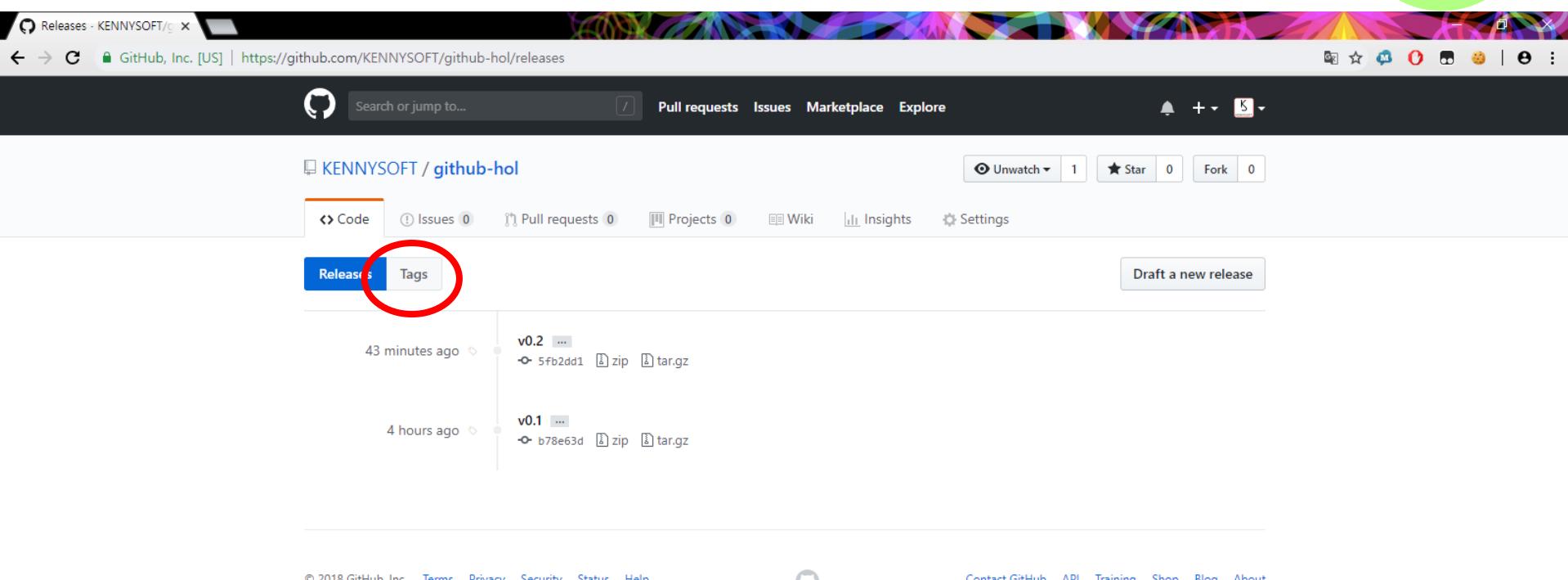
The screenshot shows a GitHub repository page for 'KENNYSOFT / github-hol'. The 'Releases' tab is active and highlighted with a red circle. Two releases are listed:

- v0.2 (43 minutes ago)
 - 5fb2dd1
 - zip
 - tar.gz
- v0.1 (4 hours ago)
 - b78e63d
 - zip
 - tar.gz

At the bottom of the page, there is a footer with links to GitHub's Terms, Privacy, Security, Status, Help, Contact GitHub, API, Training, Shop, Blog, and About pages.

https://github.com/KENNYSOFT/github-hol/tags

[3] Release (Cont'd)

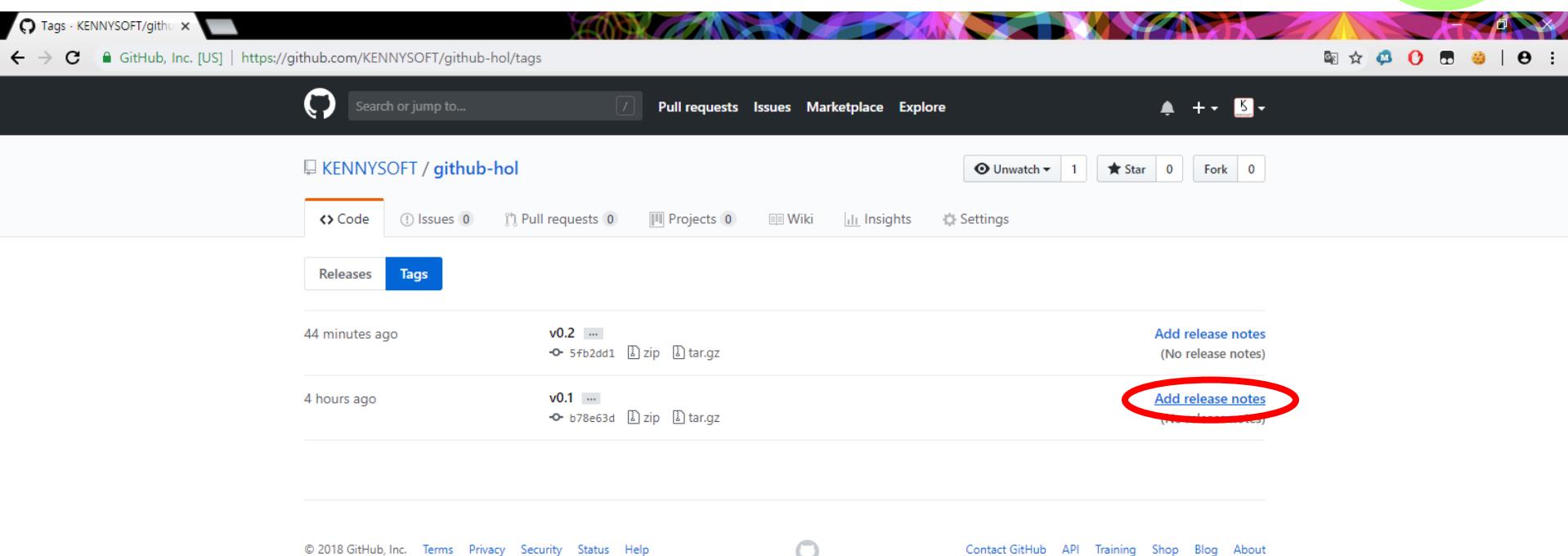


The screenshot shows a GitHub repository page for 'KENNYSOFT / github-hol'. The 'Releases' tab is active and highlighted with a red circle. Two releases are listed:

- v0.2 (43 minutes ago)
 - 5fb2dd1
 - zip
 - tar.gz
- v0.1 (4 hours ago)
 - b78e63d
 - zip
 - tar.gz

At the bottom of the page, there is a footer with links: © 2018 GitHub, Inc. Terms Privacy Security Status Help, Contact GitHub API Training Shop Blog About, and a URL bar at the bottom containing https://github.com/KENNYSOFT/github-hol/tags.

[3] Release (*Cont'd*)



The screenshot shows a GitHub repository page for 'KENNYSOFT / github-hol'. The 'Tags' tab is selected. Two releases are listed:

- v0.2** (44 minutes ago)
 - Commit: 5fb2dd1
 - Downloads: zip, tar.gz
- v0.1** (4 hours ago)
 - Commit: b78e63d
 - Downloads: zip, tar.gz

For the v0.1 release, the 'Add release notes' button is highlighted with a red circle.

At the bottom of the page, the URL is shown as <https://github.com/KENNYSOFT/github-hol/releases/new?tag=v0.1>.

[3] Release (*Cont'd*)

Release v0.1 (7/12) · KENNYSOFT / github-hol · GitHub

KENNYSOFT / github-hol

Code Issues Pull requests Projects Wiki Insights Settings

Releases Tags

Latest release v0.1 · 38s ago · 4 commits · b78e63d

v0.1 (7/12)

KENNYSOFT released this 38 seconds ago · 4 commits to master since this release

Assets

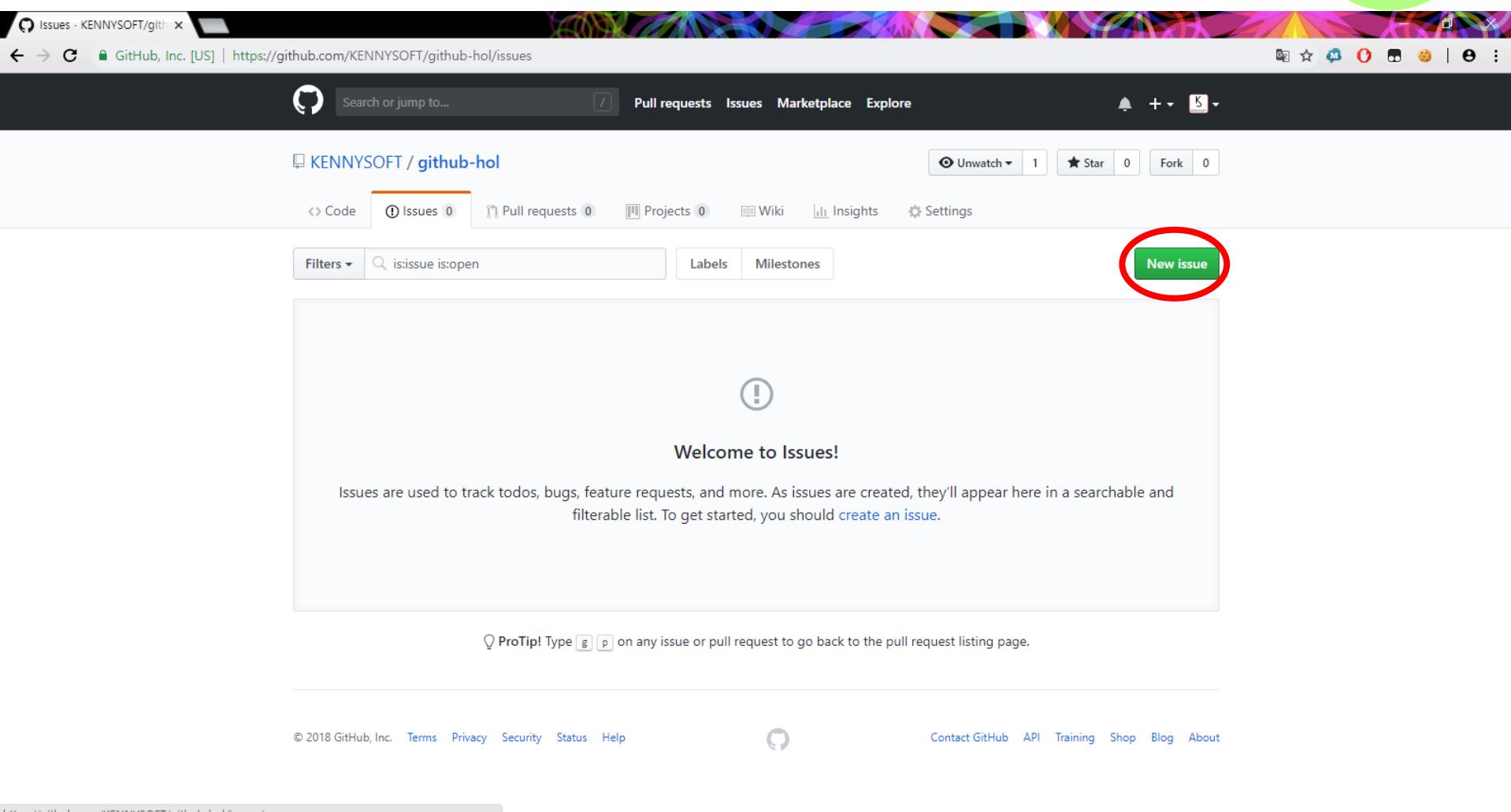
- Source code (zip)
- Source code (tar.gz)

MWE: Minimum Working Example

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[4] Issues



The screenshot shows a GitHub Issues page for the repository KENNYSOFT/github-hol. The page has a dark header with the GitHub logo, a search bar, and navigation links for Pull requests, Issues, Marketplace, and Explore. Below the header, the repository name 'KENNYSOFT / github-hol' is displayed, along with Unwatch (1), Star (0), and Fork (0) buttons. A red circle highlights the 'New issue' button in the top right corner of the main content area. The content area features a large 'Welcome to Issues!' message with a note about tracking todos, bugs, and feature requests, and a 'create an issue' link. At the bottom, there's a ProTip about using 'g' and 'p' keyboard shortcuts to switch between issues and pull requests.

Issues - KENNYSOFT/github-hol

GitHub, Inc. [US] | https://github.com/KENNYSOFT/github-hol/issues

Search or jump to...

Pull requests Issues Marketplace Explore

KENNYSOFT / github-hol

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Filters is:issue is:open Labels Milestones New issue

Welcome to Issues!

Issues are used to track todos, bugs, feature requests, and more. As issues are created, they'll appear here in a searchable and filterable list. To get started, you should [create an issue](#).

ProTip! Type `g` `p` on any issue or pull request to go back to the pull request listing page.

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Contact GitHub API Training Shop Blog About

<https://github.com/KENNYSOFT/github-hol/issues/new>

[4] Issues (*Cont'd*)

Need guest book · Issue #1 · GitHub

KENNYSOFT / github-hol

Issues 1 · Pull requests 0 · Projects 0 · Wiki · Insights · Settings

Need guest book #1

Open KENNYSOFT opened this issue just now · 0 comments

KENNYSOFT commented just now

Owner +

Need guest book folder for collect feedback with pull requests.

Write Preview Leave a comment Attach files by dragging & dropping, selecting them, or pasting from the clipboard. Styling with Markdown is supported

Comment Close issue

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone
No milestone

Notifications
 Unsubscribe

You're receiving notifications because you authored the thread.

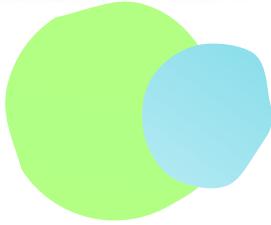
1 participant

[4] Issues (*Cont'd*)

- Level4 폴더 내의 guestbook 폴더를 저장소로 복사한다.
- git add .
- git commit -m "Add guestbook; resolve #1"
- git push

The screenshot shows two side-by-side GitHub browser windows. The left window displays the commit history for the 'master' branch, listing several commits related to implementing a guestbook feature. The right window shows the details of issue #1, titled 'Need guest book'. The issue is marked as closed, with a comment from the user KENNYSOFT stating, 'Need guest book folder for collect feedback with pull requests.' The issue page also includes sections for Assignees, Labels, Projects, Milestone, and Notifications, all currently empty or set to 'None yet'. The URL for the issue page is <https://github.com/KENNYSOFT/github-hol/issues/1>.

(17) clone



원격 저장소를 통째로 복사하기

자동으로 그 주소가 origin이라는 remote로 추가된다.

[5] Fork, clone

The screenshot shows a GitHub repository page for 'KENNYSOFT/github-hol'. At the top right, there is a message in Korean: '부계정이다.' (It's a forked account). The 'Fork' button is highlighted with a red circle. A tooltip above the button says 'Fork your own copy of KENNYSOFT/github-hol to your account'. The repository has 11 commits, 1 branch, 2 releases, and 1 contributor. The latest commit was made 3 minutes ago. The repository contains files like README.md, .gitignore, msptestapp, guestbook, and a file named 'K'. The README.md file contains the text 'GitHub: Hands-On Lab (7/12)' and 'w/ PaaS Source Code'.

KENNYSOFT / github-hol

Fork your own copy of KENNYSOFT/github-hol to your account

11 commits 1 branch 2 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

KENNYSOFT Add guestbook; resolve #1 Latest commit 1e7338e 3 minutes ago

guestbook Add guestbook; resolve #1 3 minutes ago

msptestapp Merge branch 'query-delete-2' an hour ago

.gitignore Ignore db connection info 5 hours ago

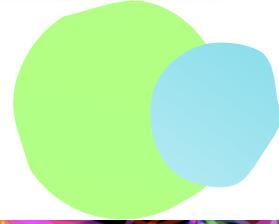
README.md Add readme 14 hours ago

README.md

GitHub: Hands-On Lab (7/12)

w/ PaaS Source Code

[5] Fork, clone (*Cont'd*)



KENNYSOFT2/github-ho x Commits - KENNYSOFT/... x GitHub, Inc. [US] | https://github.com/KENNYSOFT2/github-ho

Search or jump to... Pull requests Issues Marketplace Explore

KENNYSOFT2 / github-ho forked from KENNYSOFT/github-ho

Unwatch 1 Star 0 Fork 1

Code Pull requests 0 Projects 0 Wiki Insights Settings

Forking KENNYSOFT/github-ho

It should only take a few seconds.

Refresh

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github.com의 응답을 기다리는 중...

[5] Fork, clone (*Cont'd*)

KENNYSOFT2/github-hol x KENNYSOFT/github-hol x GitHub, Inc. [US] | https://github.com/KENNYSOFT2/github-hol

Search or jump to... / Pull requests Issues Marketplace Explore

KENNYSOFT / github-hol forked from KENNYSOFT/github-hol

Unwatch 1 Star 0 Fork 1

Code Pull requests 0 Projects 0 Wiki Insights Settings

GitHub Hands-On Lab (7/12) Edit

Add topics

11 commits 1 branch 2 releases 1 contributor

Branch: master New pull request

Create new file Upload files Find file Clone or download

This branch is even with KENNYSOFT:master.

KENNYSOFT Add guestbook; resolve #1

guestbook Add guestbook; resolve #1

msptestapp Merge branch 'query-delete-2'

.gitignore Ignore db connection info

README.md Add readme

Clone with HTTPS Use SSH

Use Git or checkout with SVN using the link URL:

https://github.com/KENNYSOFT2/github-hol

Open in Desktop Download ZIP

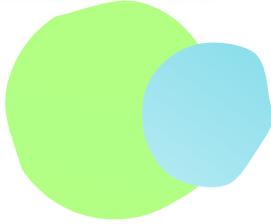
5 hours ago 14 hours ago

README.md

GitHub: Hands-On Lab (7/12)

w/ PaaS Source Code

[5] Fork, clone (*Cont'd*)



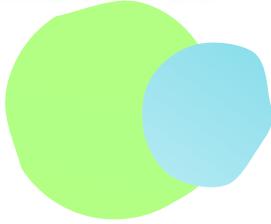
- 작업하던 내용과 혼란이 생기지 않도록 다른 폴더로 이동한다.
- git clone <https://github.com/KENNYSOFT2/github-hol.git>
- cd github-hol
- git remote -v
- git remote add upstream <https://github.com/KENNYSOFT/github-hol>

```
C:\> C:\WINDOWS\system32\cmd.exe
D:\>KUMGrade 3 (2018) MSCP [18.07.12] 코딩봉사단 강의>clonetest>git clone https://github.com/KENNYSOFT2/github-hol.git
Cloning into 'github-hol'...
remote: Counting objects: 76, done.
remote: Compressing objects: 100% (47/47), done.
remote: Total 76 (delta 24), reused 75 (delta 23), pack-reused 0
Unpacking objects: 100% (76/76), done.

D:\>KUMGrade 3 (2018) MSCP [18.07.12] 코딩봉사단 강의>clonetest>cd github-hol
D:\>KUMGrade 3 (2018) MSCP [18.07.12] 코딩봉사단 강의>clonetest>git remote -v
origin https://github.com/KENNYSOFT2/github-hol.git (fetch)
origin https://github.com/KENNYSOFT2/github-hol.git (push)

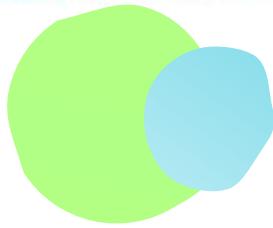
D:\>KUMGrade 3 (2018) MSCP [18.07.12] 코딩봉사단 강의>clonetest>github-hol>
```

(18) fetch



원격 저장소의 브랜치 가져오기

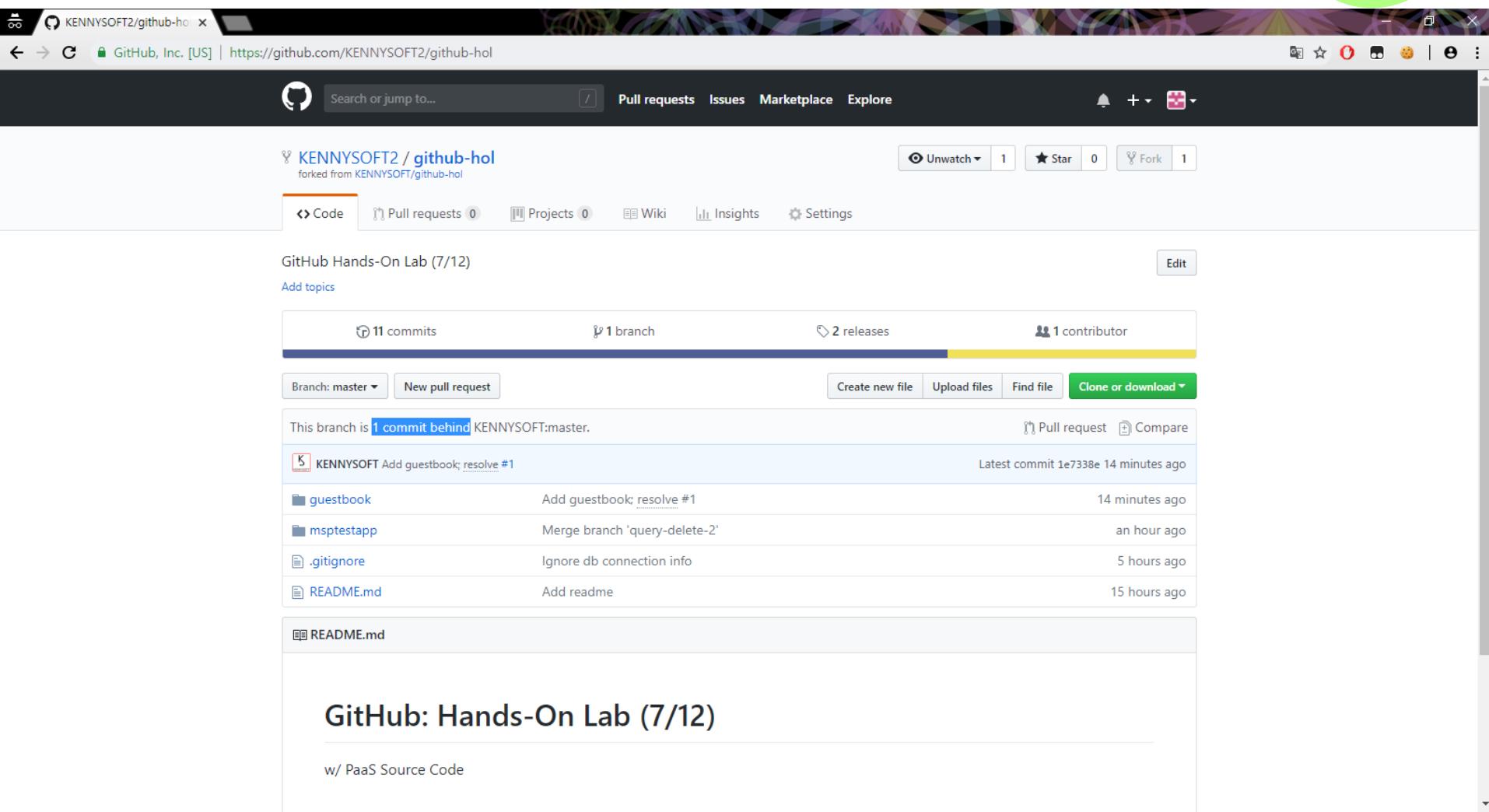
(19) pull



fetch + merge

pull.rebase 설정을 통해
fetch + rebase가 되도록 바꿀 수 있다.

[6] upstream 따라가기



A screenshot of a GitHub repository page for 'KENNYSOFT2/github-hol'. The repository is forked from 'KENNYSOFT/github-hol'. The page shows 11 commits, 1 branch, 2 releases, and 1 contributor. The 'Code' tab is selected. A commit list is displayed, showing recent changes like 'Add guestbook; resolve #1' and 'Merge branch 'query-delete-2''. A sidebar on the right contains a section titled 'GitHub: Hands-On Lab (7/12)' with the text 'w/ PaaS Source Code'.

KENNYSOFT / **github-hol**
forked from KENNYSOFT/github-hol

Code Pull requests 0 Projects 0 Wiki Insights Settings

GitHub Hands-On Lab (7/12) Edit

Add topics

11 commits 1 branch 2 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

This branch is 1 commit behind KENNYSOFT:master.

KENNYSOFT Add guestbook; resolve #1 Latest commit 1e7338e 14 minutes ago

guestbook Add guestbook; resolve #1 14 minutes ago

msptestapp Merge branch 'query-delete-2' an hour ago

.gitignore Ignore db connection info 5 hours ago

README.md Add readme 15 hours ago

README.md

GitHub: Hands-On Lab (7/12)

w/ PaaS Source Code

[6] upstream 따라가기

- git fetch upstream master
- git merge upstream/master
- git push

```
C:\WINDOWS\system32\cmd.exe
YSOFT/github-hol

D:\KLU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\clonetest\github-hol>git fetch upstream master
remote: Counting objects: 4, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
From https://github.com/KENNYSOFT/github-hol
 * branch            master      -> FETCH_HEAD
 * [new branch]      master      -> upstream/master

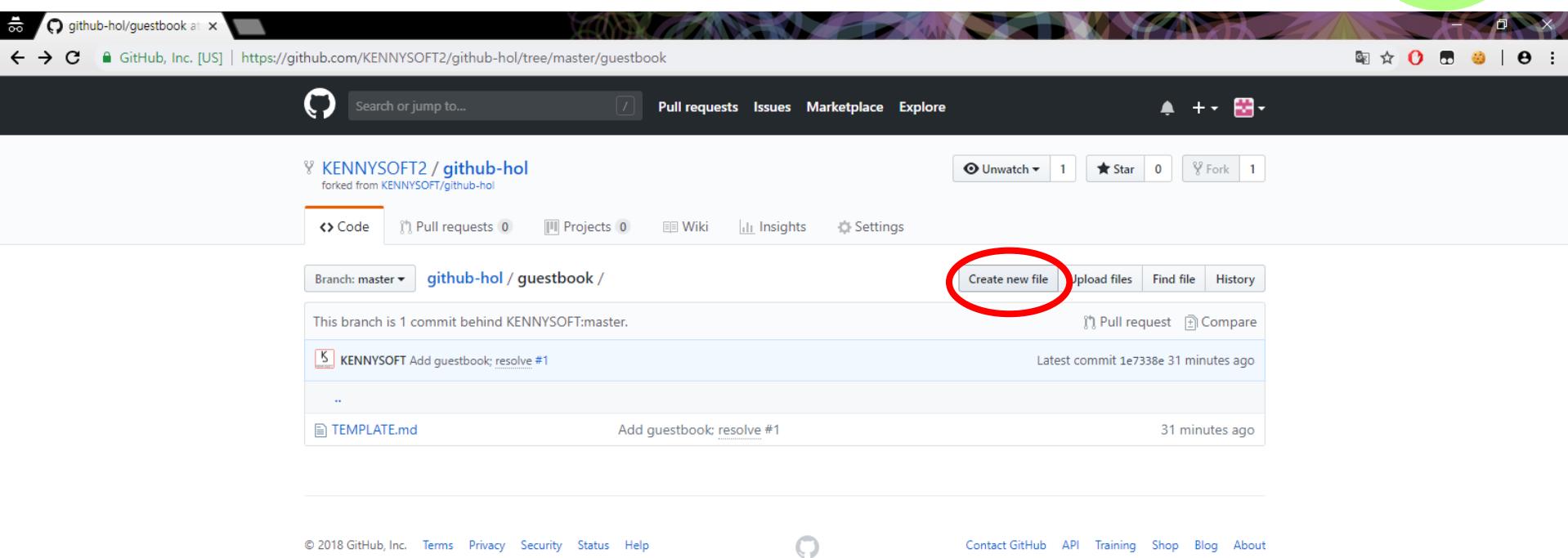
D:\KLU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\clonetest\github-hol>git merge upstream/master
Updating 1e7338e..b2a7762
Fast-forward
 guestbook/_temp_for_upstream | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 guestbook/_temp_for_upstream

D:\KLU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\clonetest\github-hol>git push
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 757 bytes | 757.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object
To https://github.com/KENNYSOFT2/github-hol.git
 ! [remote rejected] master -> master (permission denied)
error: failed to push some refs to 'https://github.com/KENNYSOFT2/github-hol.git'

D:\KLU\Grade 3 (2018)\MSPW[18.07.12] 코딩봉사단 강의\clonetest\github-hol>
```

credential을 안 바꿔서 오류가 발생했다.
성공시 1 behind가 다시 even이 될 것이다.

[7] 파일 편집



A screenshot of a GitHub repository page for 'KENNYSOFT2 / github-hol'. The page shows a commit history where a user named KENNYSOFT added a file named 'TEMPLATE.md' with the content 'Add guestbook: resolve #1'. A red circle highlights the 'Create new file' button in the top right corner of the main content area.

github-hol/guestbook at master · GitHub, Inc. [US] · https://github.com/KENNYSOFT2/github-hol/tree/master/guestbook

KENNYSOFT2 / github-hol
forked from KENNYSOFT/github-hol

Pull requests Issues Marketplace Explore

Unwatch 1 Star 0 Fork 1

Code Pull requests 0 Projects 0 Wiki Insights Settings

Branch: master · [github-hol](#) / [guestbook](#) /

This branch is 1 commit behind KENNYSOFT:master.

KENNYSOFT Add guestbook: resolve #1 · Latest commit 1e7338e 31 minutes ago

..

[TEMPLATE.md](#) Add guestbook: resolve #1 · 31 minutes ago

Create new file Upload files Find file History

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[7] 파일 편집 (Cont'd)

New File × 러블리즈 (Lovelyz) ×

GitHub, Inc. [US] | https://github.com/KENNYSOFT2/github-hol/new/master/guestbook

Search or jump to... / Pull requests Issues Marketplace Explore

KENNYSOFT2 / github-hol forked from KENNYSOFT/github-hol

Unwatch 1 Star 0 Fork 1

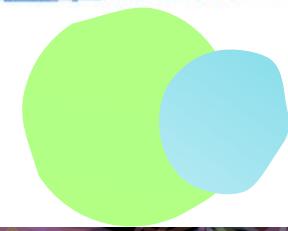
Code Pull requests 0 Projects 0 Wiki Insights Settings

github-hol / guestbook / KENNYSOFT2.md or cancel

Edit new file Preview Spaces 2 No wrap

```
1 - Name: KENNYSOFT
2 - Score: 10/10
3 - Feedback: [Wow!] (https://www.youtube.com/watch?v=PZxPUM4bUzY)
```

[7] 파일 편집 (Cont'd)



A screenshot of a web browser showing a GitHub repository page. The URL in the address bar is <https://github.com/KENNYSOFT2/github-hol/tree/master/guestbook>. The page title is "KENNYSOFT2 / github-hol". The repository has 1 watch, 0 stars, and 1 fork. The "Code" tab is selected. The branch is "master". The commit history shows two commits:

- KENNYSOFT2 Create KENNYSOFT2.md (just now)
- Template.md Add guestbook: resolve #1 (32 minutes ago)

At the bottom, there are links for GitHub: © 2018 GitHub, Inc. Terms Privacy Security Status Help, Contact GitHub API Training Shop Blog About.

[8] Pull Request

The screenshot shows a GitHub repository page for 'KENNYSOFT2 / github-hol'. The 'Pull requests' tab is selected. A red circle highlights the green 'New pull request' button in the top right corner of the main content area. The URL in the address bar is <https://github.com/KENNYSOFT2/github-hol/pulls>.

Pull Requests - KENNYSOFT2 / github-hol

GitHub, Inc. [US] | https://github.com/KENNYSOFT2/github-hol/pulls

KENNYSOFT2 / github-hol
forked from KENNYSOFT/github-hol

Pull requests 0 Projects 0 Wiki Insights Settings

Filters is:pr is:open Labels Milestones

New pull request

Welcome to Pull Requests!

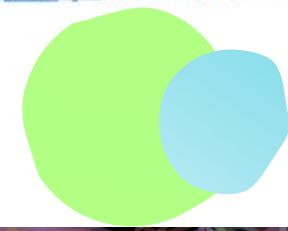
ProTip! Click a checkbox on the left to edit multiple issues at once.

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https://github.com/KENNYSOFT2/github-hol/compare

[8] Pull Request (*Cont'd*)



A screenshot of a GitHub comparison page for the repository KENNYSOFT/github-hol. The URL is https://github.com/KENNYSOFT/github-hol/compare/master...KENNYSOFT2:master. The page shows a comparison between the master branch of the base fork and the master branch of the head fork. A red circle highlights the "Create pull request" button.

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base fork: KENNYSOFT/github-hol | base: master | head fork: KENNYSOFT2/github-hol | compare: master

✓ Able to merge. These branches can be automatically merged.

Create pull request (highlighted with a red circle)

Discuss and review the changes in this comparison with others.

1 commit | 1 file changed | 0 commit comments | 1 contributor

Commits on Jul 12, 2018

KENNYSOFT2 | Create KENNYSOFT2.md | Verified | 0904165

Showing 1 changed file with 3 additions and 0 deletions.

Unified | Split

guestbook/KENNYSOFT2.md

```
3 3 guestbook/KENNYSOFT2.md
...
1 + Name: KENNYSOFT
2 + Score: 10/10
3 + Feedback: [Wow!](https://www.youtube.com/watch?v=PZxPUM4bUzY)
```

[8] Pull Request (*Cont'd*)

The screenshot shows a GitHub pull request page for a repository named `KENNYSOFT / github-hol`. The pull request is titled `Create KENNYSOFT2.md #2`. It has 1 commit from the `KENNYSOFT2:master` branch merged into the `KENNYSOFT:master` branch. The commit message is "Create KENNYSOFT2.md". The pull request has 0 issues, 1 check, and 1 file changed. The status bar indicates "+3 -0" changes. The review section shows that the branch has no conflicts with the base branch. The comment section is empty. The right sidebar lists project details: no reviews, no assignees, no labels, no projects, no milestones, and notifications.

GitHub, Inc. [US] | https://github.com/KENNYSOFT/github-hol/pull/2

Pull requests Issues Marketplace Explore

KENNYSOFT / github-hol

Watch 1 Star 0 Fork 1

Code Issues 0 Pull requests 1 Projects 0 Wiki Insights

Create KENNYSOFT2.md #2

Open KENNYSOFT2 wants to merge 1 commit into `KENNYSOFT:master` from `KENNYSOFT2:master`

Conversation 0 Commits 1 Checks 0 Files changed 1 +3 -0

KENNYSOFT2 commented just now
No description provided.

Create KENNYSOFT2.md Verified 0904165

Add more commits by pushing to the `master` branch on `KENNYSOFT2/github-hol`.

This branch has no conflicts with the base branch
Only those with write access to this repository can merge pull requests.

Write Preview

Leave a comment

Reviewers
No reviews

Assignees
No one assigned

Labels
None yet

Projects
None yet

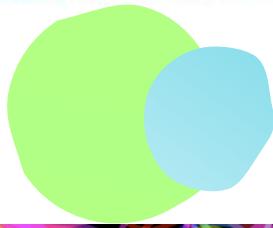
Milestone
No milestone

Notifications

Unsubscribe

You're receiving notifications because

[8] Pull Request (Cont'd)



GitHub, Inc. [US] | https://github.com/KENNYSOFT/github-hol/pull/2

Pull requests Issues Marketplace Explore

KENNYSOFT / github-hol

Unwatch 1 Star 0 Fork 1

Code Issues 0 Pull requests 1 Projects 0 Wiki Insights Settings

Create KENNYSOFT2.md #2

Open KENNYSOFT2 wants to merge 1 commit into KENNYSOFT:master from KENNYSOFT2:master

Conversation 0 Commits 1 Checks 0 Files changed 1 +3 -0

KENNYSOFT2 commented a minute ago First-time contributor

No description provided.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Create a merge commit All commits from this branch will be added to the base branch via a merge commit.

Squash and merge The 1 commit from this branch will be added to the base branch.

Rebase and merge The 1 commit from this branch will be rebased and added to the base branch.

Continuous integration has not been set up Several apps are available to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Write Preview AA B i Unsubscribe

PR을 받는 본계정

Reviewers No reviews

Assignees No one—assign yourself

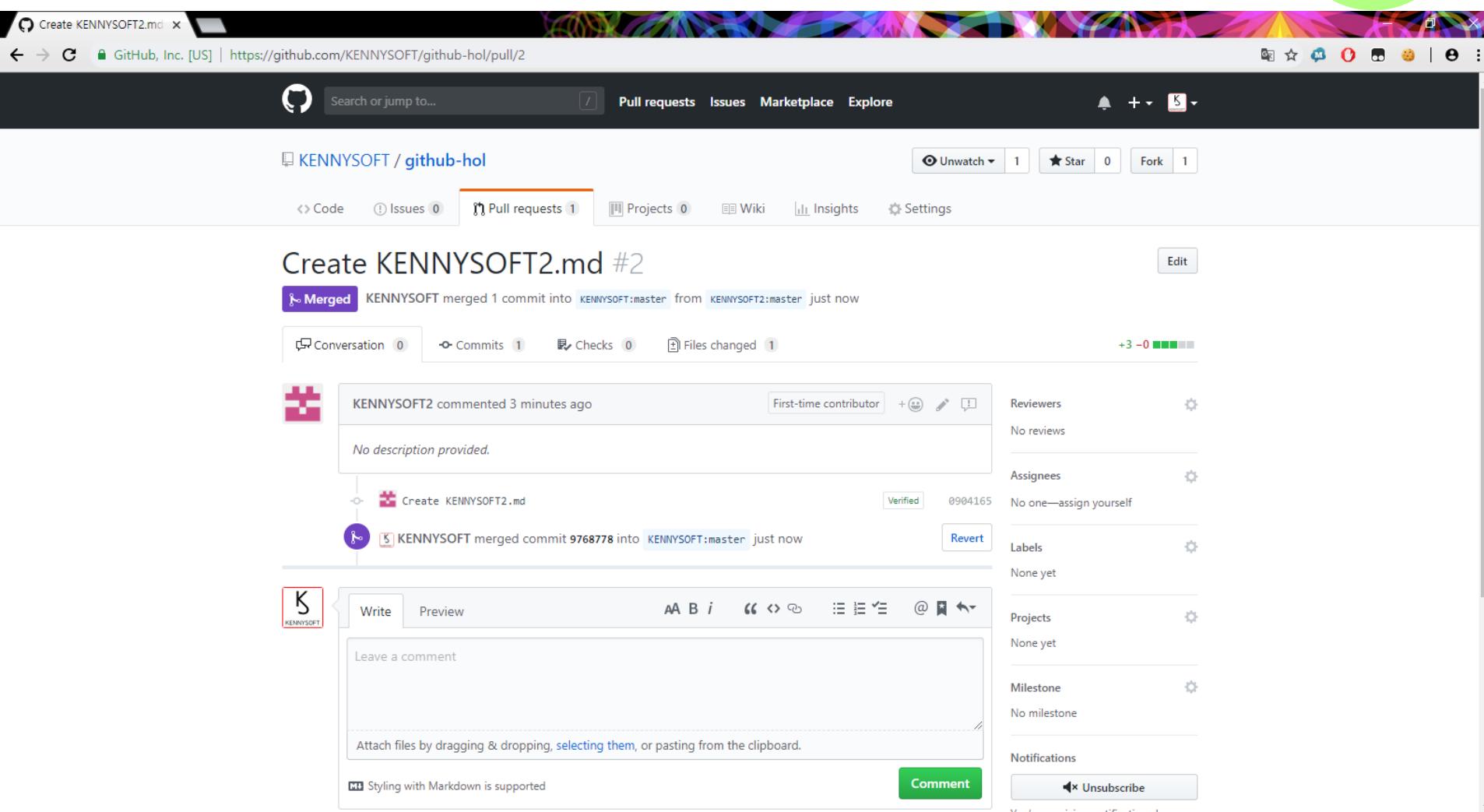
Labels None yet

Projects None yet

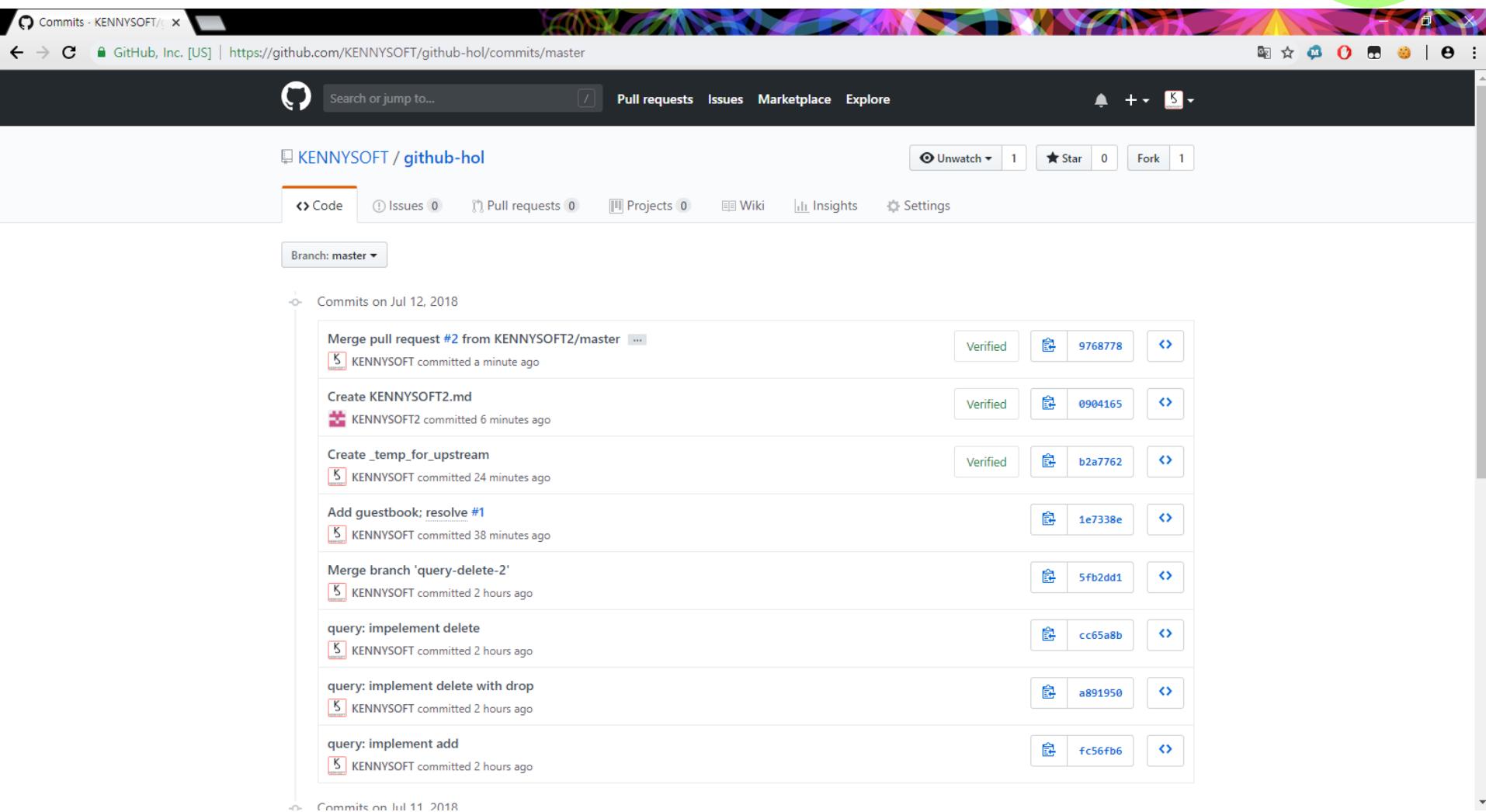
Milestone No milestone

Notifications Unsubscribe

[8] Pull Request (*Cont'd*)



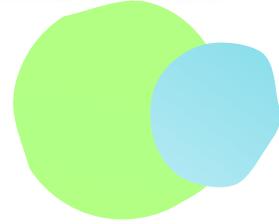
[8] Pull Request (*Cont'd*)



A screenshot of a GitHub repository page for 'KENNYSOFT / github-hol'. The page shows a list of commits on the 'master' branch. The commits are listed in chronological order from July 12, 2018, at the top to July 11, 2018, at the bottom. Each commit includes the author, message, timestamp, verification status (Verified), copy icon, commit hash, and a copy-and-share icon.

Commit Details	Timestamp	Verification	Hash
Merge pull request #2 from KENNYSOFT2/master	A minute ago	Verified	9768778
Create KENNYSOFT2.md	6 minutes ago	Verified	0904165
Create _temp_for_upstream	24 minutes ago	Verified	b2a7762
Add guestbook; resolve #1	38 minutes ago		1e7338e
Merge branch 'query-delete-2'	2 hours ago		5fb2dd1
query: implement delete	2 hours ago		cc65a8b
query: implement delete with drop	2 hours ago		a891950
query: implement add	2 hours ago		fc56fb6

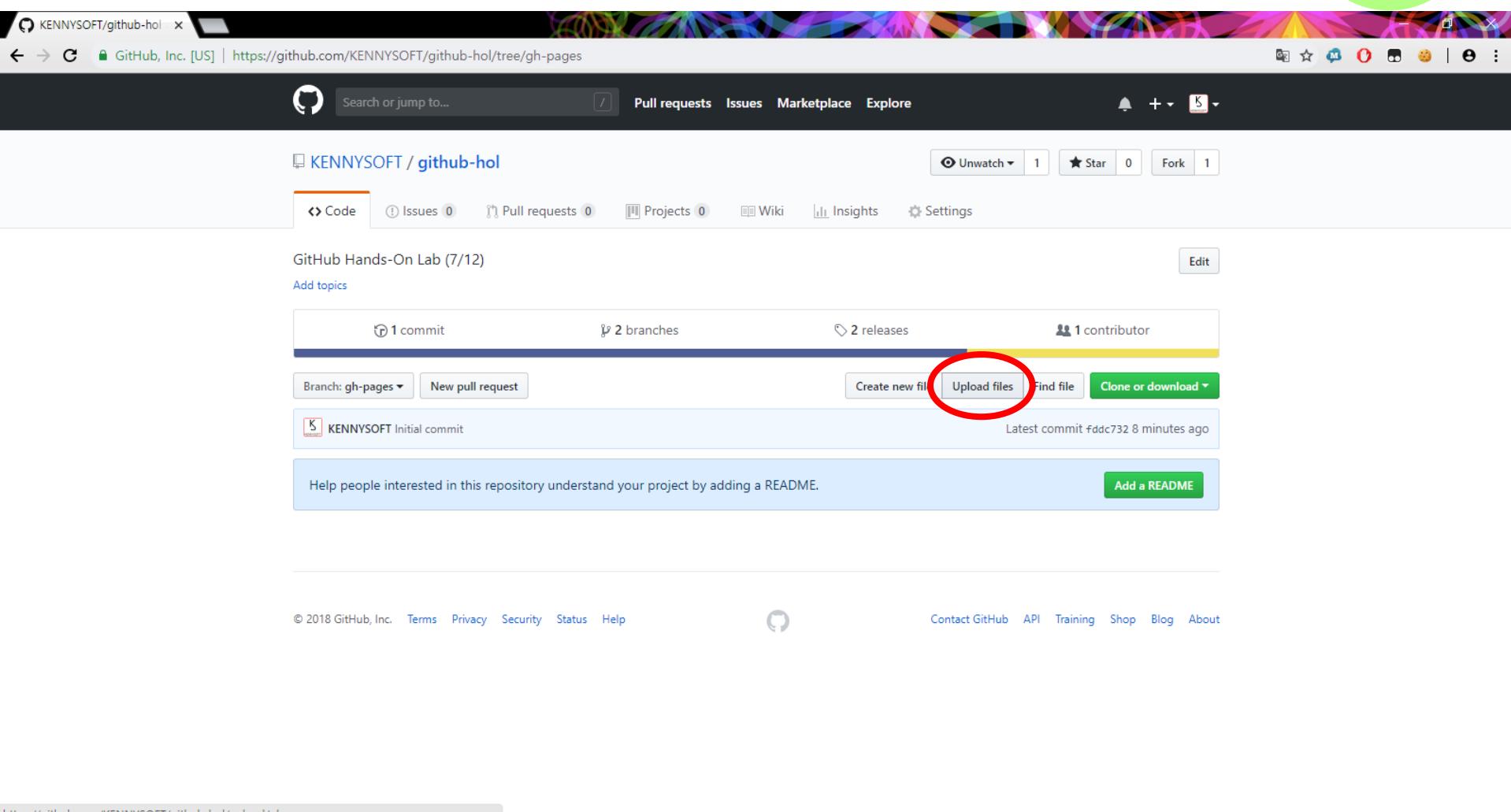
[9] GitHub Pages



- git checkout --orphan gh-pages
- git rm --cached -r .
- git commit --allow-empty -m "Initial commit"
- git push origin gh-pages
- Orphaned 브랜치 관리는 상당히 귀찮기에 나머지 파일은 GitHub에서 직접 업로드한다.

```
C:\WINDOWS\system32\cmd.exe
Initial commit
Untracked files:
  .gitignore
  README.md
  guestbook/
  msptestapp/
nothing added to commit but untracked files present
D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의\github-hol>git status
On branch gh-pages
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore
    README.md
    guestbook/
    msptestapp/
nothing added to commit but untracked files present (use "git add" to track)
D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의\github-hol>git commit --allow-empty -m "Initial commit"
[gh-pages (root-commit) fdcc732] Initial commit
D:\KU\Grade 3 (2018)\MSP\[18.07.12] 코딩봉사단 강의\github-hol>
```

[9] GitHub Pages (*Cont'd*)



KENNYSOFT/github-hol GitHub, Inc. [US] | https://github.com/KENNYSOFT/github-hol/tree/gh-pages

Search or jump to... Pull requests Issues Marketplace Explore

Unwatch 1 Star 0 Fork 1

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

GitHub Hands-On Lab (7/12) Edit

Add topics

1 commit 2 branches 2 releases 1 contributor

Branch: gh-pages New pull request Create new file Upload files Find file Clone or download

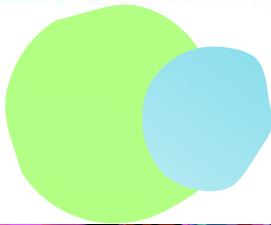
KENNYSOFT Initial commit Latest commit fddc732 8 minutes ago

Help people interested in this repository understand your project by adding a README. Add a README

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<https://github.com/KENNYSOFT/github-hol/upload/gh-pages>

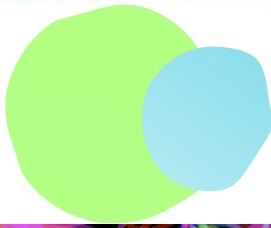
blame



Release v0.1 (7/12) - KE WzComparerR2/WzCom GitHub, Inc. [US] | https://github.com/KENNYSOFT/WzComparerR2/blame/master/WzComparerR2/MainForm.cs

[KMS] Tooltip.CashPackage	2 years ago	1843 1844 private Wz_File findItemWz() 1845 { 1846 foreach (Wz_Structure wz in openedWz) 1847 { 1848 foreach (Wz_File file in wz.wz_files) 1849 { 1850 if (file.Type == Wz_Type.Item) 1851 { 1852 return file; 1853 } 1854 } 1855 } 1856 return null; 1857 } 1858 }
[KMS] UI.Search (2)	2 years ago	1859 private IEnumerable<KeyValuePair<int, StringResult>> searchStringLinker(IEnumerable<Dictionary<int, StringResult>> dicts, string key, bool exact
init	3 years ago	1860 { 1861 string[] match = key.Split(new char[] { ' ' }, StringSplitOptions.RemoveEmptyEntries); 1862 foreach (Dictionary<int, StringResult> dict in dicts) 1863 { 1864 foreach (KeyValuePair<int, StringResult> kv in dict) 1865 { 1866 if (exact) 1867 { 1868 if (string.Compare(kv.Key.ToString(), key, StringComparison.OrdinalIgnoreCase) == 0 string.Compare(kv.Value.Name, key, StringComparison.OrdinalIgnoreCase) == 0 string.Com
[KMS] UI.Search (2)	2 years ago	1869 yield return kv; 1870 } 1871 else 1872 {

Wiki



Home - KENNYSOFT/github-hol

GitHub, Inc. [US] | https://github.com/KENNYSOFT/github-hol/wiki

Search or jump to... / Pull requests Issues Marketplace Explore

Your Wiki was created. ×

[KENNYSOFT / github-hol](#) Unwatch 1 Star 0 Fork 1

[Code](#) [Issues 0](#) [Pull requests 0](#) [Projects 0](#) [Wiki](#) [Insights](#) [Settings](#)

Home

Hyeonmin Park edited this page just now · 1 revision

Welcome to the github-hol wiki!

▼ Pages 1
[Home](#)

+ Add a custom sidebar

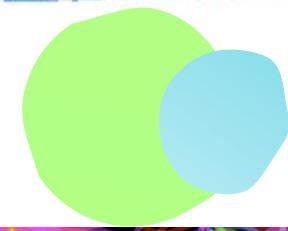
Clone this wiki locally
<https://github.com/KENNYSOFT/github-hol> Clone in Desktop

+ Add a custom footer

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2018-07-12 | 123

GitHub Gist



Create a new Gist X

← → ⌂ 안전함 | <https://gist.github.com> [undo] [redo] [refresh] [home] [search] [help]

GitHubGist All gists GitHub [New gist](#) S

[!\[\]\(84712e188b95b24eba152d63d1e4c55d_img.jpg\) github-hol.md](#) No description. [See all of your gists](#)

Gist description...

github-hol.md Spaces ↴ 2 ↴ No wrap ↴

```
1 # GitHub: Hands-On Lab (7/12)
2
3 w/ PaaS Source Code
4
5 - Slide [[PDE]](https://kennysoft.github.io/github-hol/[18.07.12]%20GitHub.pdf) [[PowerPoint]](https://kennysoft.github.io/github-hol/[18.07.12]%20GitHub.pptx)
6 - [Providing](https://kennysoft.github.io/github-hol/providing.zip)
7 - [Result repository](https://github.com/KENNYSOFT/github-hol)
```

Add file Create secret gist Create public gist

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GitHub Gist (*Cont'd*)

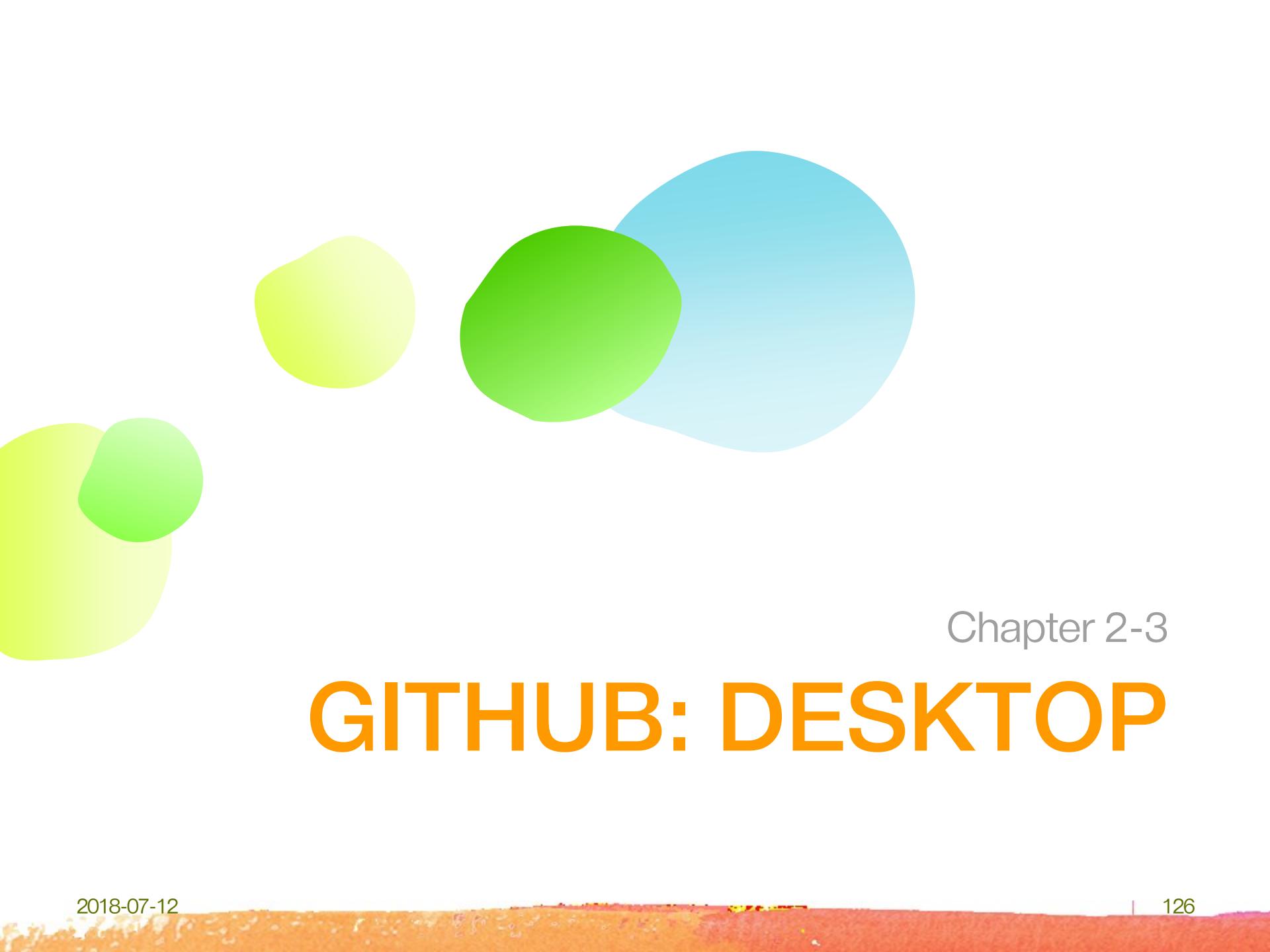
The screenshot shows a web browser window with a GitHub Gist page. The URL in the address bar is <https://gist.github.com/KENNYSOFT/4cf28c5d09382553e18c0eae11f134e7>. The page title is "github-hol.md". The main content area displays the file "github-hol.md" which contains the following text:

```
GitHub: Hands-On Lab (7/12)

w/ PaaS Source Code

• Slide [PDF] [PowerPoint]
• Providing
• Result repository
```

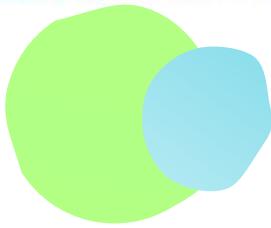
Below the code editor, there is a comment section with a "Leave a comment" input field and a "Comment" button.



Chapter 2-3

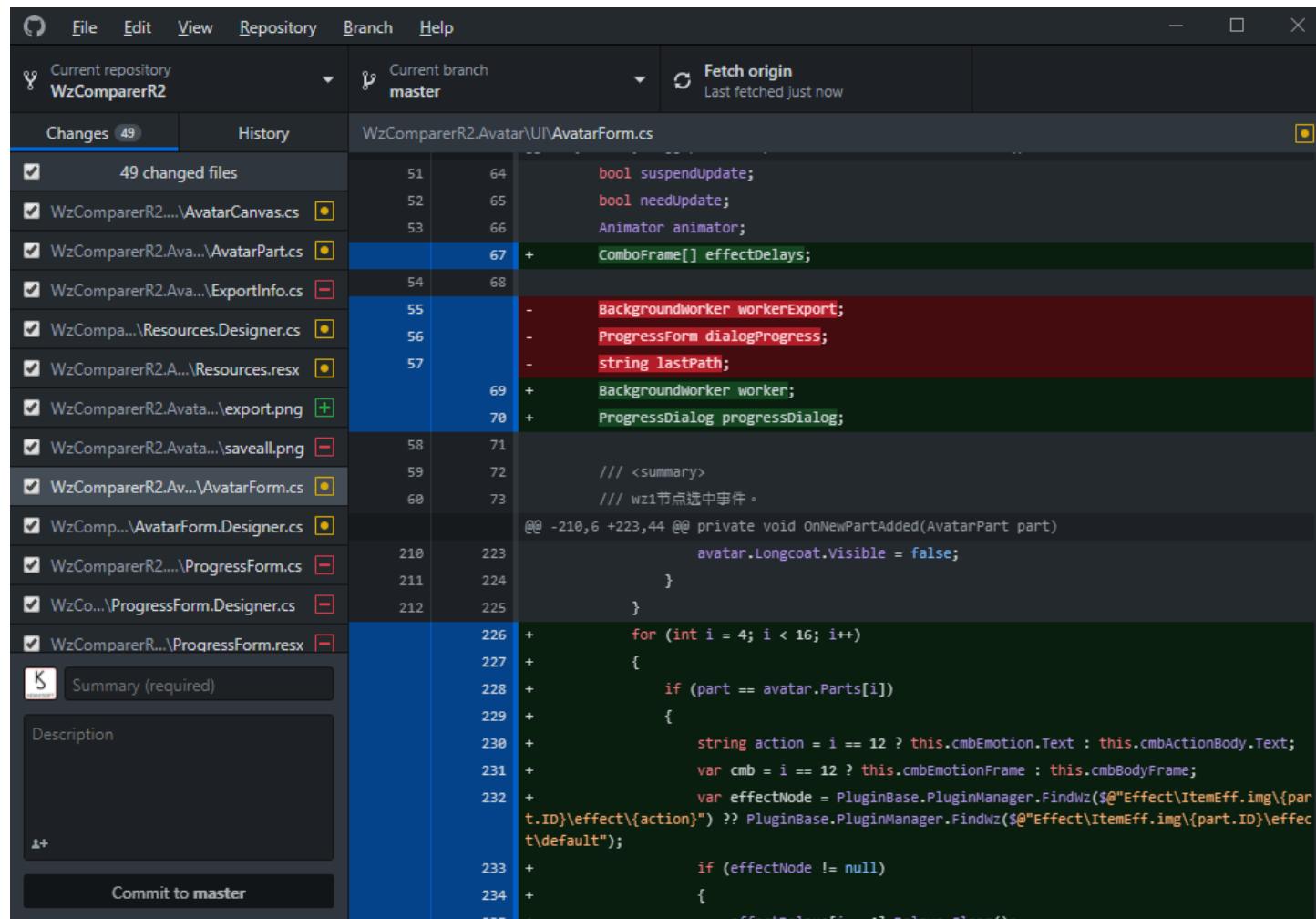
GITHUB: DESKTOP

GitHub Desktop 설치

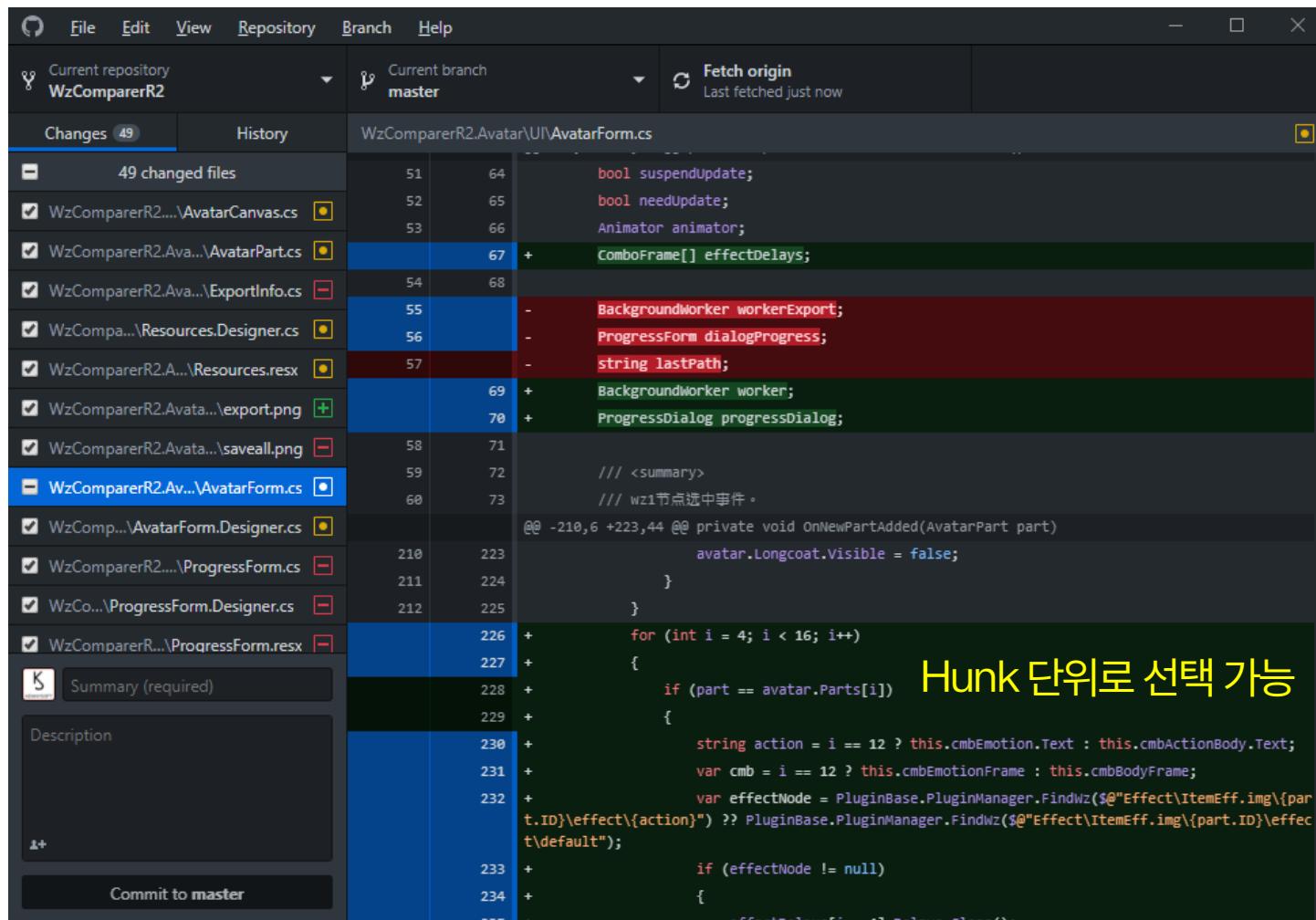


<https://desktop.github.com>

GitHub Desktop



GitHub Desktop (*Cont'd*)



An abstract graphic in the top left corner consists of four overlapping circles. From left to right: a large yellow circle, a smaller green circle nested within it, a medium-sized yellow-green blob, and a large blue circle. They overlap in a way that suggests depth.

Appendix

REFERENCE

Reference

- <https://github.com/Taeung/git-training>
- [https://ko.wikipedia.org/wiki/%EA%B9%83_\(%EC%86%8C%ED%94%84%ED%8A%B8%EC%9B%A8%EC%96%B4\)](https://ko.wikipedia.org/wiki/%EA%B9%83_(%EC%86%8C%ED%94%84%ED%8A%B8%EC%9B%A8%EC%96%B4))
- “Git” 강의자료 by 이기용 교수님 (숙명여자대학교)

Q&A

감사합니다