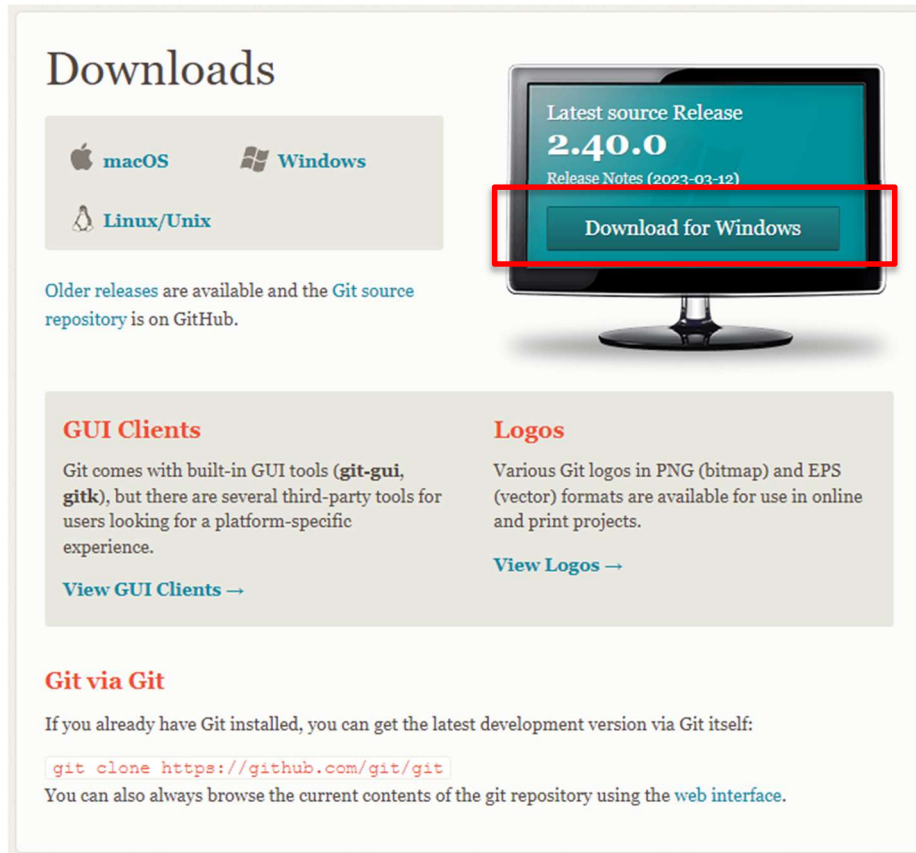


Git 설치 및 설정

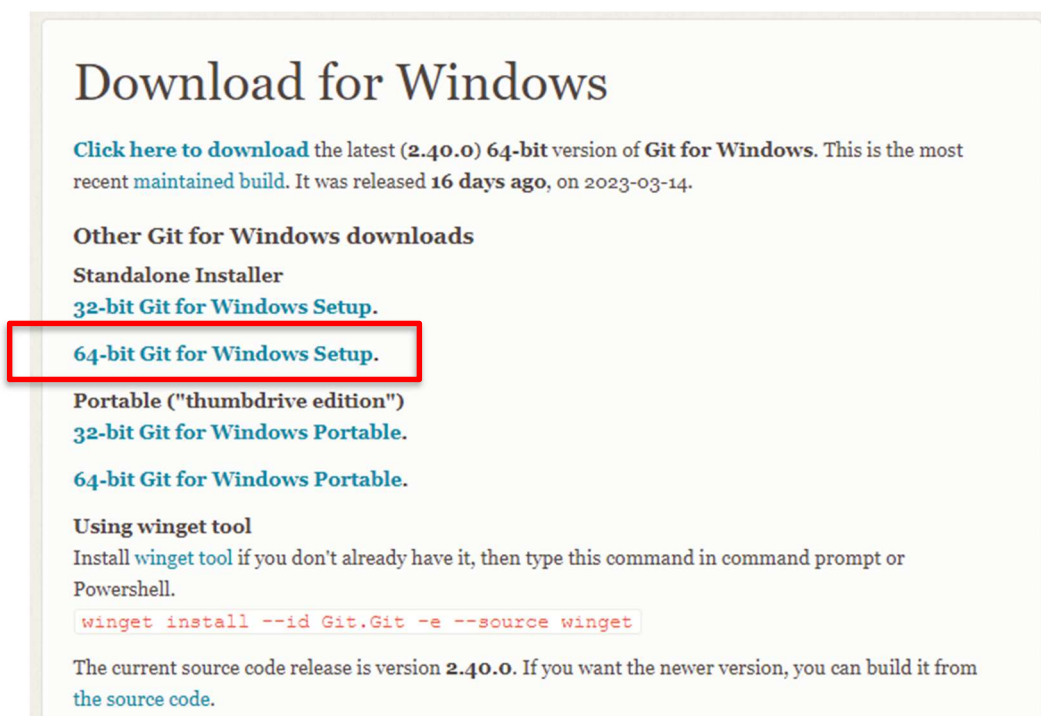
1. 설치 File Download 및 설치

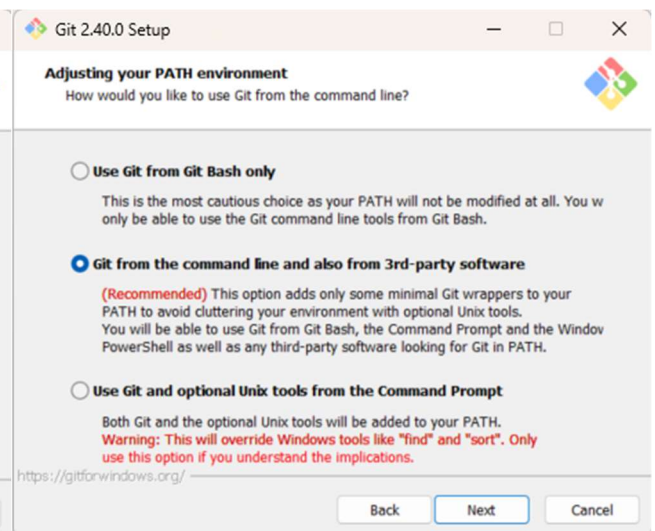
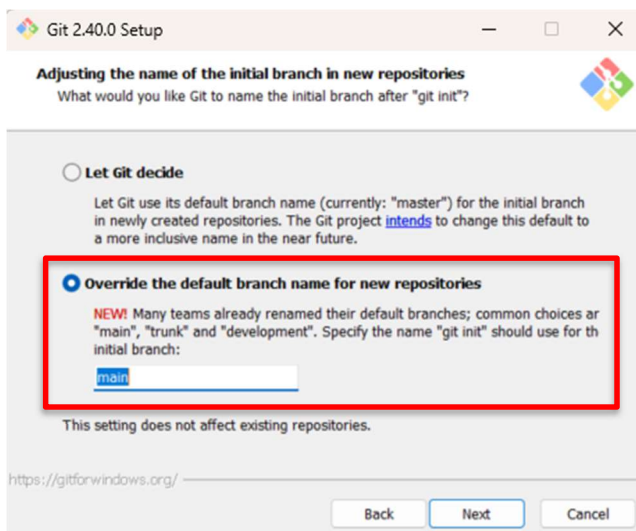
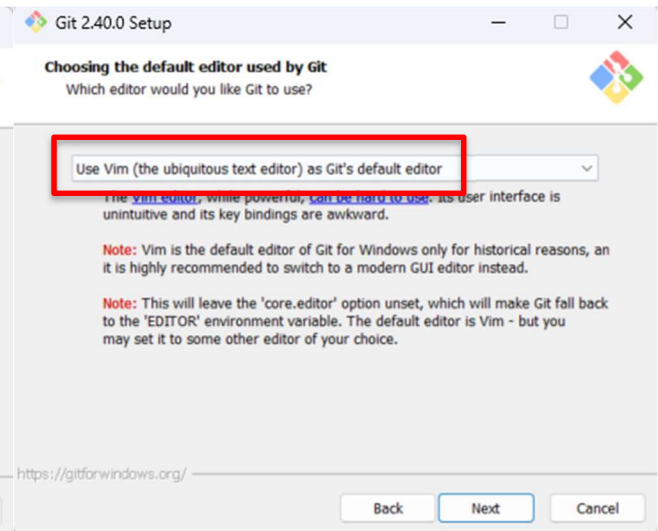
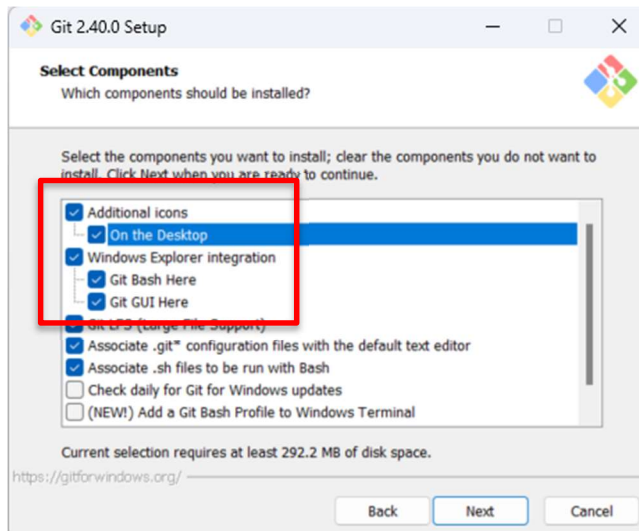
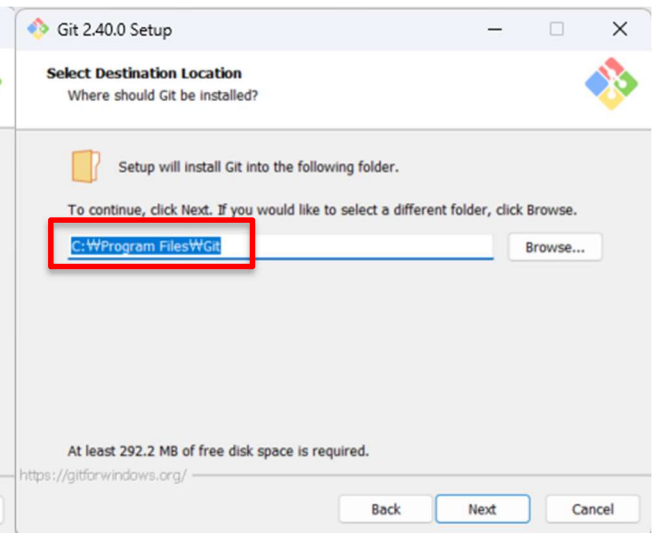
1) <https://git-scm.com/downloads>

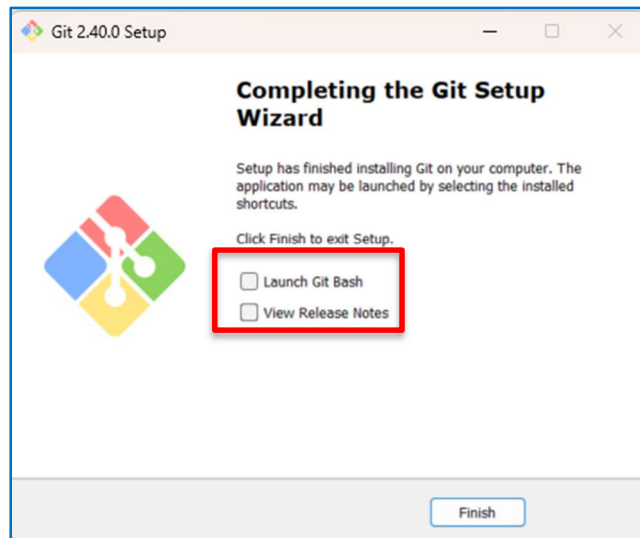


2) Mac OS X, Windows, Linux/Unix 지원

3) Downloads 2.x.x for Windows







4) 설치가 완료되면 명령창에서 아래의 명령을 실행해서 잘 설치되었는지 확인한다.

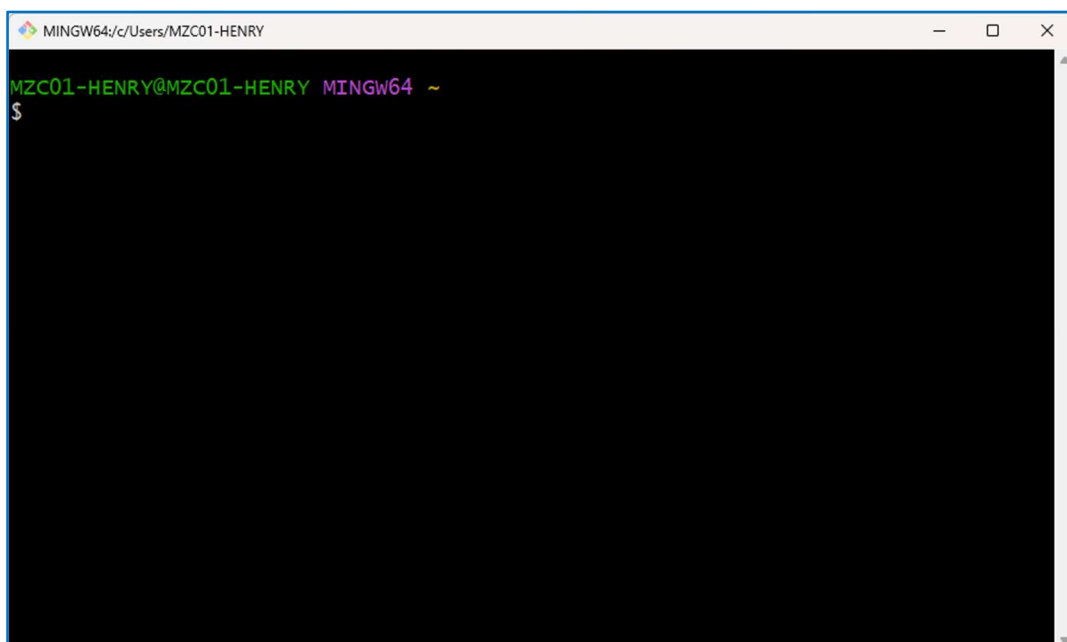
```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.22621.1413]
(c) Microsoft Corporation. All rights reserved.

C:\Users\MZC01-HENRY>git --version
git version 2.40.0.windows.1

C:\Users\MZC01-HENRY>
```

5) Git 실행하기

- 시작프로그램 > Git > [Git Bash]



- 바탕화면 > right-click > [Git Bash Here]

6) Windows10+git 일 경우 Command Prompt 에서도 git 명령 가능.

7) 화면 Clear

- Ctrl + L

2. 설정 File 정보 확인

1) Git 에서는 책임성을 유지하기 위해 Commit 한 사람의 Email 과 Name 이 반드시 필요하다.

2) 설정 File 위치

- System 전역 경로

- C:/Program Files/Git/

- Git Bash 에서

```
$ cd /
```

```
$ pwd
```

```
$ ls
```

- 사용자 Directory

- %USER_HOME%\w.gitconfig

- Git Bash 에서

```
$ cd ~
```

```
$ pwd
```

```
$ ls -al | grep .gitconfig
```

- Working Directory

- "Working Directory 경로"/.git/config

3) 우선순위는 Working Directory > 사용자 Directory > System 전역 경로

3. Git 저장소 만들기

1) Git 을 설치했으니 Local Repository 를 만들어본다.

2) Git Repository 는 Git GUI 등을 이용하거나 명령행에서 작업할 수 있다.

3) 적절한 Directory 로 이동한 다음 git init 명령어로 git 을 초기화한다.

```
C:\WINDOWS\system32\cmd.exe
C:\Users\MZC01-HENRY>cd \

C:\>mkdir gitwork

C:\>cd gitwork

C:\gitwork>git init
Initialized empty Git repository in C:/gitwork/.git/

C:\gitwork>
```

4. 작업자 정보 입력(Email, Name)

1) Windows Explorer > C:/gitwork > mouse right-click > [Git Bash Here]

```
$ git config [--global] user.name 사용자명
```

```
$ git config [--global] user.email emailAddress
```

```
MINGW64/c/gitwork
MZC01-HENRY@MZC01-HENRY MINGW64 /c/gitwork (main)
$ git config user.name henry

MZC01-HENRY@MZC01-HENRY MINGW64 /c/gitwork (main)
$ git config user.email javaexpert@nate.com

MZC01-HENRY@MZC01-HENRY MINGW64 /c/gitwork (main)
$ |
```

2) 사용자명과 Email Address 확인

```
MINGW64/c/gitwork/.git
MZC01-HENRY@MZC01-HENRY MINGW64 /c/gitwork (main)
$ ls -al
total 16
drwxr-xr-x 1 MZC01-HENRY 197121 0 Mar 30 13:12 ./
drwxr-xr-x 1 MZC01-HENRY 197121 0 Mar 30 13:12 ../
drwxr-xr-x 1 MZC01-HENRY 197121 0 Mar 30 13:14 .git/

MZC01-HENRY@MZC01-HENRY MINGW64 /c/gitwork (main)
$ cd .git

MZC01-HENRY@MZC01-HENRY MINGW64 /c/gitwork/.git (GIT_DIR!)
$ cat config
[core]
    repositoryformatversion = 0
    filemode = false
    bare = false
    logallrefupdates = true
    symlinks = false
    ignorecase = true
[user]
    name = henry
    email = javaexpert@nate.com

MZC01-HENRY@MZC01-HENRY MINGW64 /c/gitwork/.git (GIT_DIR!)
$
```

5. How to install git on macOS

1) Homebrew 로 설치된 패키지 목록 확인

\$ brew list

```
henry-MacBook-Pro:~ henry$ brew list
==> Formulae
apr          gdbm          libevent      mysql         pcre2         readline      xz
apr-util     gettext       libnghttp2    openjdk       protobuf      six           zstd
brotli       httpd         lz4           openjdk@11    putty         sqlite
ca-certificates icu4c        mpdecimal     openssl@1.1   python@3.9    tomcat@9

==> Casks
visual-studio-code
henry-MacBook-Pro:~ henry$
```

2) Homebrew 를 이용하여 git 설치

\$ brew install git

```
henry-MacBook-Pro:~ henry$ brew install git
==> Downloading https://formulae.brew.sh/api/formula.jws.json
==> Downloading https://formulae.brew.sh/api/cask.jws.json
##### 100.0%
==> Fetching git
==> Downloading https://ghcr.io/v2/homebrew/core/git/manifests/2.40.0
Already downloaded: /Users/henry/Library/Caches/Homebrew/downloads/266ddb0440c8288ff2855fd4cb9565dc034a63597f76f92068d6430a6c1d3ec2--git-2.40.0.bottle_manifest.json
==> Downloading https://ghcr.io/v2/homebrew/core/git/blobs/sha256:578773328bed8eb7171872b6230b9c8b0bc7c49d8edb8e0c811745a1790e31d6
Already downloaded: /Users/henry/Library/Caches/Homebrew/downloads/06fb3fbe7cbb106f94b0a5b2b0c0f9b501338cadad8a60e33d1d7508621f657d--git-2.40.0.ventura.bottle.tar.gz
==> Pouring git--2.40.0.ventura.bottle.tar.gz
==> Caveats
The Tcl/Tk GUIs (e.g. gitk, git-gui) are now in the `git-gui` formula.
Subversion interoperability (git-svn) is now in the `git-svn` formula.

Bash completion has been installed to:
  /usr/local/etc/bash_completion.d
==> Summary
📦 /usr/local/Cellar/git/2.40.0: 1,625 files, 47.8MB
==> Running `brew cleanup git`...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).
henry-MacBook-Pro:~ henry$
```

3) Version 확인

\$ git --version

```
henry-MacBook-Pro:~ henry$ git --version
git version 2.37.1 (Apple Git-137.1)
henry-MacBook-Pro:~ henry$
```


4) Working Directory 생성 및 초기화

```
GitWork — -bash — 91x16
henry-MacBook-Pro:~ henry$ mkdir GitWork
henry-MacBook-Pro:~ henry$ cd GitWork
henry-MacBook-Pro:GitWork henry$ git init
Initialized empty Git repository in /Users/henry/GitWork/.git/
henry-MacBook-Pro:GitWork henry$ git config user.name henry
henry-MacBook-Pro:GitWork henry$ git config user.email javaexpert@nate.com
henry-MacBook-Pro:GitWork henry$
```

5) 환경설정 확인

```
.git — -bash — 91x24
henry-MacBook-Pro:GitWork henry$ cd .git
henry-MacBook-Pro:.git henry$ ls -al
total 24
drwxr-xr-x  9 henry  staff  288  3 30 15:03 .
drwxr-xr-x  3 henry  staff   96  3 30 15:02 ..
-rw-r--r--  1 henry  staff   21  3 30 15:02 HEAD
-rw-r--r--  1 henry  staff  187  3 30 15:03 config
-rw-r--r--  1 henry  staff   73  3 30 15:02 description
drwxr-xr-x 15 henry  staff  480  3 30 15:02 hooks
drwxr-xr-x  3 henry  staff   96  3 30 15:02 info
drwxr-xr-x  4 henry  staff  128  3 30 15:02 objects
drwxr-xr-x  4 henry  staff  128  3 30 15:02 refs
henry-MacBook-Pro:.git henry$ cat config
[core]
    repositoryformatversion = 0
    filemode = true
    bare = false
    logallrefupdates = true
    ignorecase = true
    precomposeunicode = true
[user]
    name = henry
    email = javaexpert@nate.com
henry-MacBook-Pro:.git henry$
```