
git

&


GitHub

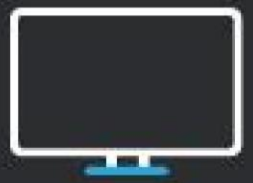
What is git ?

- Version Control System (VCS)
- manage your project files
- track version/history changes of your files
- while working with teams-collaboration
- easy to learn (just some lines of code)

Git

First developed in 2005

Git is installed and maintained on your local system (rather than in the cloud)



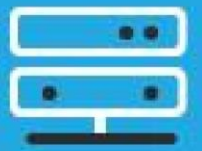
One thing that really sets Git apart is its branching model

Git is a high quality version control system

vs.

GitHub

GitHub is designed as a Git repository hosting service

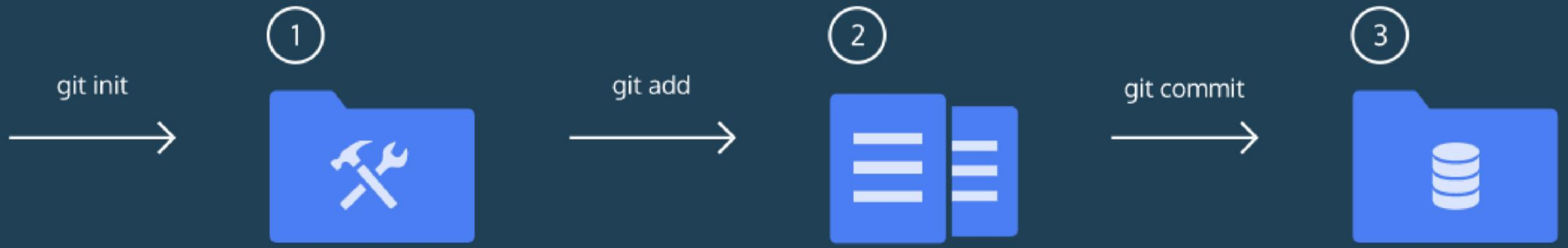


GitHub is exclusively cloud-based

You can share your code with others, giving them the power to make revisions or edits

GitHub is a cloud-based hosting service

Basic Git Workflow



Working Directory

Make changes to files:

- Additions
- Deletions
- Modifications

Staging Area

Files are ready for commit

Repository

Changes are saved to repository as a commit

https://git-scm.com/downloads

git --everything-is-local

Search entire site...

About

Documentation

Downloads

GUI Clients

Logos

Community

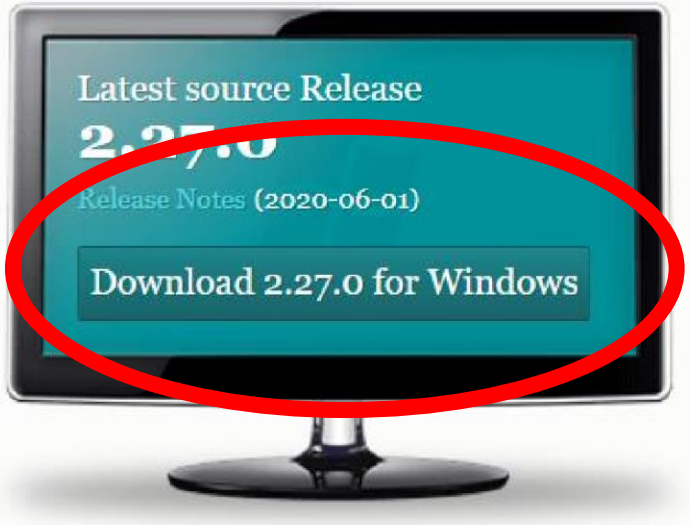
The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.

Downloads

Mac OS X Windows

Linux/Unix

Older releases are available and the Git source repository is on GitHub.



GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

View GUI Clients →

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

View Logos →

Install Git for Linux

```
$ sudo apt-get update
$ sudo apt-get install git



Check is git installed or not
$ git --version


git version 2.27.0
```

Some Bash Script

- **mkdir** : to make directory
- **cd** : Change directory
- **ls** : list directory
- **touch** : create file
- **rm -R** : Remove Files and directory

Before you Begin

```
$ git config --global user.name "FirstName LastName"
$ git config --global user.email "email@example.com"
```

Git Terminology

- **add** : add files and folder to staging
- **commit** : create version/snapshot of repo
- **push** : send files to remote
- **fetch** : retrieve update information from remote
- **pull**: retrieve updates from remote
- **branch**: different section on same repository

- **clone**: copy your repository
- **fork**: copy other’s repo into your personal repo