

WORK-CASE №1

Git and GitHub

Introduction

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What is **Git**?

Git is a version control system for tracking changes in files.

Git allows you to:

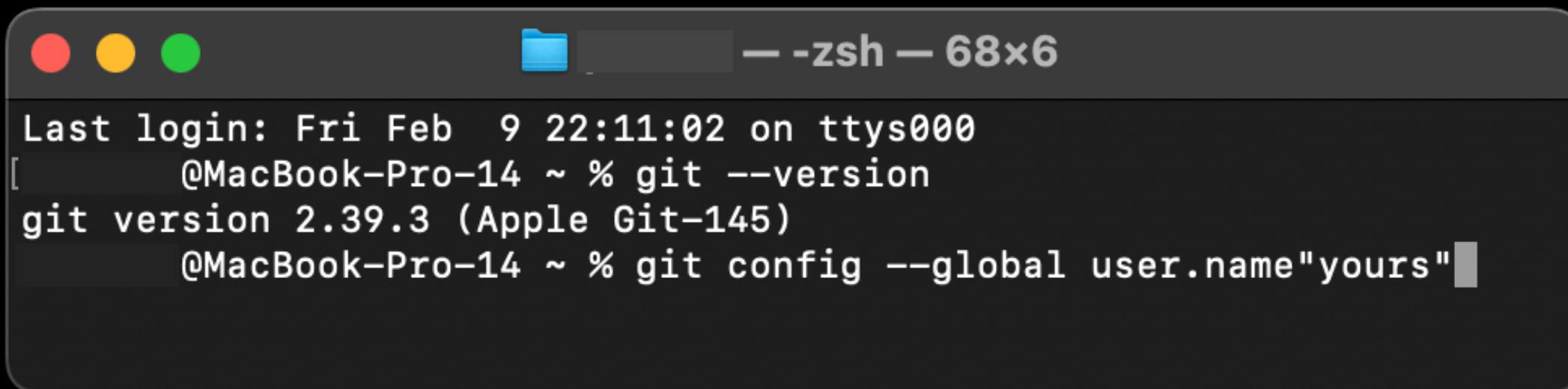
- Store and track all changes made to your projects.
- Collaborate with other people on projects.
- Easily revert to previous versions of your projects.

 <https://git-scm.com>



GIT-Global Information Tracker

Git is typically used through the command line. The Git command line interface (CLI) is a tool for running these commands.



```
— -zsh — 68x6
Last login: Fri Feb  9 22:11:02 on ttys000
[ MacBook-Pro-14 ~ % git --version
git version 2.39.3 (Apple Git-145)
[ MacBook-Pro-14 ~ % git config --global user.name"yours"
```

Configure your Git username and email using the following commands :

```
$ git config --global user.name "Name Surname"
$ git config --global user.email "your@gmail.com"
```

How to Use Git?

The Git command line tool is installed by default on macOS and Linux.

To check the availability or your version of git, you need to open the Command Prompt (Windows), Terminal (MAC), or Linux Terminal.

Once open, run this command:
git --version

Basics Git Commands

Clone: Cloning a repository on our local machine.

```
git clone <repository_url>
```

Init : Initialize a new Git repository.

```
git init
```

Add: adds one or more modified files to the list of files to be included in the next commit.

```
git add <-file name->
```

Commit: It is the record of change.

```
git commit -m "some message"
```

Status : Displays the state of the code.

```
git status
```

Pull: Fetch and merge changes from a remote repository.

```
git pull origin <branch> or main
```

Push : upload local repo content to remote repo.

```
git push origin <branch> or main
```

Git commit

The **git commit command** captures a snapshot of the project's currently staged changes. Committed snapshots can be thought of as “safe” versions of a project—Git will never change them unless you explicitly ask it to.

**GitHub is a code hosting platform,
built for collaboration.**

It let you work together with the team remotely from anywhere. It provides access control and several collaboration features such as bug tracking, feature requests, task management, continuous integration, etc.

What is GitHub?

For my work, I chose GitHub 

GitHub makes tools that use Git.

Git - a version control system; Hub - a social network for developers.

HOW TO CREATE REPOSITORY

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner *

 sophdi ▾

Repository name *

os-sofi

✔ os-sofi is available.

Great repository names are short and memorable. Need inspiration? How about **congenial-fortnight** ?

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

☒ **Add a README file**

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: **None** ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: **None** ▾

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set  **main** as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository

GitHub profile



