☰ ▦(/learn)   ⚙ ▣

Initializing Git Repository

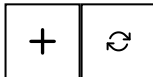Learn how to initialize a "Git repository" in your project.

We'll cover the following   ∧

- HEAD
- Git configuration

To initialize a Git repository, run `git init` from within the root folder of the source that you want to manage.

```
1    mkdir lgthw_git_basics
2    cd lgthw_git_basics
3    git init
```

Terminal 1   [+] [↻]

Terminal   ∧

```
Connecting to Terminal |
root@educative:/#
```

This locally initializes a database in the folder `.git`. Your repository is entirely stored within this `.git` folder. To work with this repository, you don't need to worry about any other files.

> There are config files for Git, but these are global to the host. You can ignore them for now.

◀   ▶

Have a look at the files within your `.git` folder by typing in:

```
4    cd .git
5    ls
```

It's not part of the scope of this course to go into detail about all the Git internals files seen here. You will cover some of them as you dive into the course though.

What *is* worth being aware of here are:
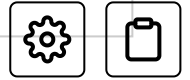
- The `HEAD` file
- The `config` file

HEAD

The `HEAD` file is key: it points to the current branch or commit ID you are currently on within your Git repository.

If you look at the file, you will see its contents contain the string:

```
refs/heads/master
```

This is an internal representation of the default `master` branch. Let's take a look at the `HEAD` file.

```
6    cat HEAD
```

⚙ 📋

Terminal 1   🔄

Terminal   ⌄

The file's contents link the `HEAD` of the repository to the `refs/heads/master` file.

Git configuration

The `config` file stores information about your repository's local configuration. For example, the branches and remote repositories your repository is aware of. Again, it's a plain text file with a basic config structure:

```
7    cat config
```

Terminal 1   🔄

Terminal   ⌄

Again, don't be concerned with understanding what it all means yet. Just be aware of its existence.

← **Back**   **Next** →

Introduction: Git Basics   Looking at Repository's History

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