☰   ▣ (/learn)   ⚙   ▢

Committing Changes to a Repository

Learn how to commit changes to a repository.

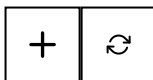**We'll cover the following**   ⌃

- The git commit command

- The git diff command

- Simultaneous add and commit

- Checking history

The `git commit` command

The `git commit` command tells Git to take a snapshot of all added content at this point.

```
1    git commit -m "Some message"
2    git log
```

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Terminal   ⌃

```
root@educative:/# mkdir lgthw_git_basics
root@educative:/# cd lgthw_git_basics
root@educative:/lgthw_git_basics# git init
Initialized empty Git repository in /lgthw_git_basics/.git/
root@educative:/lgthw_git_basics# touch mycode.py
root@educative:/lgthw_git_basics# git add mycode.py
root@educative:/lgthw_git_basics#
```

Now that git is aware of the `mycode.py` file, you can make a change to it and see how the local change looks by using `git diff`.

The `git diff` command

```
3    vim mycode.py
4    git diff
```

After typing the `vim` command, you will be taken to a text editor on the terminal. Vim has two modes: a command mode and an edit mode. By default, you will be taken into the command mode. To enter into the edit mode, press the key `i`. To exit the edit mode and enter into the command mode, press the *escape* key. To save your changes, close the editor, and go back to the terminal. Type `:wq` in the command mode, and press enter.

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Click to Connect...

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Again, you can see what's going on by looking at the status.

Simultaneous add and commit

You can commit changes to files and add at the same time by doing `git commit -a`:

```
5   git commit -a -m "Another message"
6   git status
```

Alternatively, you can use `git commit -am "Another message"`.

Checking history

The `git log` command now shows the history of the file:

```
7   git log
```

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Add Files to a Repository

Challenge: Git Basics

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