

Git Tutorial

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1 Introduction

This guide covers the basics of using Git and GitHub.

2 Creating a Basic Repository

This section covers two ways of starting a project that uses Git: first on your computer and second from GitHub. It then covers linking the two together.

2.1 Creating on Your Computer

From your computer create a new folder and navigate there using the git bash shell. Inside the folder, enter the command

```
git init
```

Alternatively you could use

```
git init <directory_name>
```

To create an initialized directory.

After that go to GitHub and create a repository, preferably with the same name as the folder you just made.

2.2 Creating from GitHub

Go to GitHub and create a repository. Then decide where you want the folder containing your project to be located on your computer, navigate there using the git bash terminal, and use the command

```
git clone <url of repository>
```

2.3 Linking your computer's repository with your GitHub repository

While inside the folder in the git bash terminal, run the command

```
git remote origin add <url of repository>
```

Now let's create a new file and then add it to the repository. To create the file type:

```
touch newfile.txt
```

Then

```
git add newfile.txt
```

Followed by

```
git commit -m "Add newfile.txt"
```

Finally

```
git push origin master
```

Refresh the GitHub webpage and you will see the new file in the repository.

Now lets make a change to the file on the repository and see how we can get this change to be reflected on your computer. First, open the file on your computer and edit it, by typing Hello, World! Then save it and add, commit, and push it. Check the file on GitHub to make sure it is changed.

Now click on the file on GitHub and click edit. Add some text to it, then click the green button below to commit, changing the default commit message if you wish by using the text box. Then use the command

```
git pull origin master
```

Check the text file on your computer, and it should be updated.