

# Git Tutorial

1. Create account on github.com - see <https://help.github.com/>
  - Also see [GitHub book](#)
2. Login
3. Create new repository 'mytestrepo' or click on homework link to automatically create your homework repository for the specific assignment
4. Add a README.md file. This ends in 'md' because we usually write these in [markdown](#) which is a structured text format that can be rendered in nice ways in HTML and PDF (like this guide). You can also make it a plain text file and use 'txt'.
5. Upload files to the repository online.
6. Checkout the code.

```
$ git clone https://github.com/YOURID/mytestrepo.git
```

7. Edit / Update a file

```
$ nano solution.sh
```

```
# or some other tool (e.g. emacs, textedit, vi, ...)
```

8. Commit these changes to your LOCAL repository

```
$ git commit -m "I updated the solution"
```

9. Save this changed repository in the github server. (eg 'the cloud'). This lets others see the file changes and sync their repository with yours if you are doing a collaborative project or for the instructor to see your submitted solutions. Also saves a copy, you or others can then checkout a clone of this repository on other computers or even just different folders if you need to

```
$ git push
```

```
# git push will request your github ID and github password
```

- See [SSH\\_keys](#) info about how to make SSH keys and [Github info on adding SSH keys](#) to your account so you don't have to enter password each time.

10. Add another new file (e.g. another script)

```
$ nano newfile.py
```

```
$ git add newfile.py
```

```
$ git commit -m "I added this new file" newfile.py
```

```
$ git push
```