

# CMPUT 404 Lab 1

## Git and GitHub

1. Make a GitHub account or log in to your existing GitHub account.

**Question 1:** What is your GitHub URL?

## virtualenv

2. Create a new directory (`mkdir`)
3. `cd` into the new directory and create a new git repository (`git init`)
4. Try installing requests using `pip install requests`
5. Make a Python script that prints out the version of the `requests` library.

**Question 2:** What version is the `requests` library installed on the system?

6. Create a virtualenv.
7. Try installing Requests using `pip`.
8. Activate the virtualenv.
9. Try Installing the latest `requests` library to your virtualenv using `pip`.
10. Run your Python script that prints out the version of the `requests` library in your virtualenv.

**Question 3:** What version is the `requests` library installed in the virtualenv?

11. Open a new terminal.
12. Run the script in your new terminal.

**Question 4:** Does your script print out the same version? Why?

## curl

13. Use `curl` to get the Google homepage: <http://google.com/>
14. This time, use `curl -i` to get the Google homepage: <http://google.com/>

**Question 5:** What status code is returned? What URL must you visit to get a 200 status code?

15. Curl the Google home page (<http://google.com/>) with `-iL` and examine the headers.
16. Curl the Google Teapot page: <https://www.google.com/teapot>
17. Modify your Python script to GET the Google homepage: <http://google.com>

**Question 6:** What status code is returned this time? Is it the one returned by `curl -i` or `curl -iL`?

18. Try `curl -i http://ccid-eddieantonio.rhcloud.com/<your ccid here>`

19. Try it again `curl -i -X POST`

20. Modify your Python script to POST your CCID to

<http://ccid-eddieantonio.rhcloud.com/><your ccid here>

**Question 7:** What is the status code returned this time? What does it mean?

21. Commit your Python script and push it to GitHub.

22. Find the raw URL to your Python script on GitHub.

23. Modify your Python script so that it downloads itself from GitHub and prints out its own source code **from GitHub**.

24. Push the new version of your Python script to GitHub.

**Question 8:** What is the raw URL to your Python script on GitHub?