

## Assignment #Zero

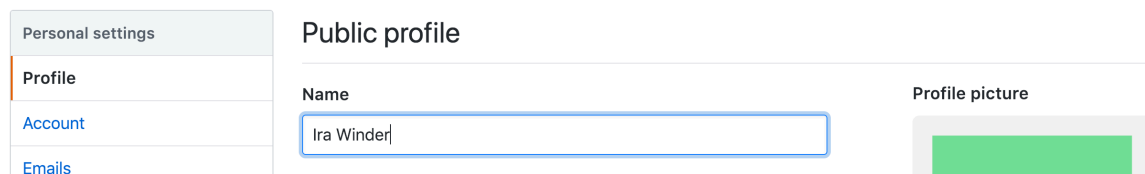
Computational Urban Science Workshop, Spring 2019

**Due: 9:00am, Thursday, February 14<sup>th</sup>**

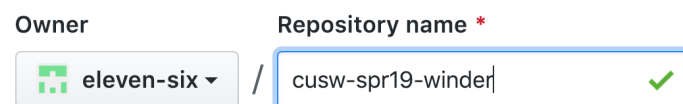
Goals: Set up Processing and Github on your computer.

**Setting up Github:** For this class, we will be sharing code with each other using the Github platform. If you are not familiar with Github, it's kind of like Dropbox but specifically for sharing code. Using Github will allow us, as instructors, to easily share examples of code with the class. It will also allow you, as students, to easily share your code so that others can make comments and help you with debugging. Using Github will also be necessary for a team working on a single piece of software.

1. Go to <https://github.com/> and create a free personal account using your MIT email address. If you already have one, that's great; use the one you already have.
2. Make sure to verify your email address by clicking a link that Github emails to you.
3. Under “*Personal Settings > Profile*” update the “Name” field with your real name, preferably including your last name, so that we’ll recognize who you are:



4. Within your Github dashboard, click the option to “Create a repository” or “Start a project”. Name a public repository using the format “cusw-spr19-lastname”. For example, mine would be “cusw-spr19-winder”. Description can be something like “11.S195 Computational Urban Science Workshop”. Click “Create Repository”.



5. In your new repository, navigate to “Settings > Collaborators” and add the user names ‘irawinder’ and ‘ninalutz’. When you’re stuck on code or need advice, now we can help! (This is how we’ll know you’ve completed this assignment, too.)

The screenshot shows the GitHub repository settings page for 'eleven-six / cusw-spr19-winder'. The 'Settings' tab is selected, and the 'Collaborators' sub-tab is active. On the left sidebar, 'Collaborators' is highlighted. The main content area shows two collaborators: Ira Winder and Nina Lutz. Both are listed as 'Awaiting' a response. Each has a 'Copy invite link' button and a 'Cancel invite' button. Below the list is a search bar with the text 'Search by username, full name or email address' and a note: 'You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.' There is an 'Add collaborator' button at the bottom right of the search section.

6. Using the Github search bar, find the repository named “**cusw-SPR19**”. This is the repository (or repo) for our class. Assignments, tutorials, and other resources will be posted here. “Star” and “Watch” this repository so it is easy to find later and that you are notified of any updates.

The screenshot shows the GitHub repository page for 'irawinder / cusw-SPR19'. The repository is titled 'Computational Urban Science Workshop, Spring 2019'. It has 1 commit, 1 branch, 0 releases, and 1 contributor. The 'Code' tab is selected. Below the repository information, there are buttons for 'Branch: master', 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. A recent commit by 'irawinder' is shown, titled 'Uploaded Syllabus', with the latest commit hash '059c26b' and a timestamp of '5 minutes ago'. The commit details show a file named 'Syllabus.pdf' was uploaded.

7. Go to <https://desktop.github.com/> to download and install the Github Desktop application. We’ll set it up together during the next class, so bring your laptops!

**Setting up Processing:** The coding environment we'll primarily use for this class is called 'Processing'. It is free and open source software developed by the Processing Foundation, which was spun out of the MIT Media Lab. It is also referred to as a 'coding sketchbook', since it always you hack 2D and 3D visualization pretty easily.

0. Make sure you have the latest version of Java:

<https://www.java.com/en/download/>

1. Go to <https://processing.org/> and download the latest version of Processing for your OS.

Back to the Processing cover. **Download Processing.** Processing is available for Linux, Mac OS X, and Windows. Select your choice to download the software below.



3.5.3 (3 February 2019)

[Windows](#) 64-bit  
[Windows](#) 32-bit

[Linux](#) 64-bit  
[Linux](#) 32-bit  
[Linux](#) ARM

[Mac OS X](#)

2. Unzip the file and move the application file(s) into a preferred directly. Don't leave the application in your Desktop or Downloads folder. When you open the application, you should see an empty text editor as below. If you hit the triangular 'Run' button, you should see a small gray box.

