

# Getting Your Environment Setup (using Anaconda)

CAP 5415 - Computer Vision - Fall 2018

We suggest making a directory for the course on your local machine, we'll be assuming this sort of structure moving forward with directions. So you should have a structure much like this:

```
cap5415
+-- pa1-intro-numpy-linear-regression
+-- pa2-...
+-- pa3-...
+-- pa4-...
+-- pa5-...
+-- pa6-...
```

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**IMPORTANT NOTE:** Repeat this process for **every** assignment (this applies to all operating systems).

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## On MacOS:

**NOTE:** We highly recommend using the command-line (Terminal) whenever possible, especially since you're on a MacOS. **This installation will use Terminal.app.**

1. Run;  
`curl -SL -o miniconda.sh https://repo.continuum.io/miniconda/Miniconda3-4.5.4-MacOSX-x86\_64.sh`
2. Then run: `sh miniconda.sh`
3. You'll be prompted to accept terms, then install to `~/miniconda3` – do all of this.
4. Next, you'll want to write: `echo "export PATH=$HOME/miniconda3/bin:$PATH" >> ~/.bashrc`
5. **Now, you'll have Anaconda installed.**
6. Next, make sure you're in your the `cap5415` folder on your system.
7. Run: `conda env create --yes -f <pa>/env.yml`
8. This should take you through an installation process, agree to all questions posed by Anaconda.

## On Linux:

**NOTE:** We highly recommend using the command-line (Terminal) whenever possible, especially since you're on a Linux-based OS. **This installation will use your Terminal emulator.**

1. Run;  
`curl -SL -o miniconda.sh https://repo.continuum.io/miniconda/Miniconda3-4.5.4-Linux-x86\_64.sh`
2. Then run: `sh miniconda.sh`
3. You'll be prompted to accept terms, then install to `~/miniconda3` – do all of this.
4. Next, you'll want to write: `echo "export PATH=$HOME/miniconda3/bin:$PATH" >> ~/.bashrc`
5. **Now, you'll have Anaconda installed.**
6. Next, make sure you're in your the `cap5415` folder on your system.
7. Run: `conda env create --yes -f <pa>/env.yml`
8. This should take you through an installation process, agree to all questions posed by Anaconda.

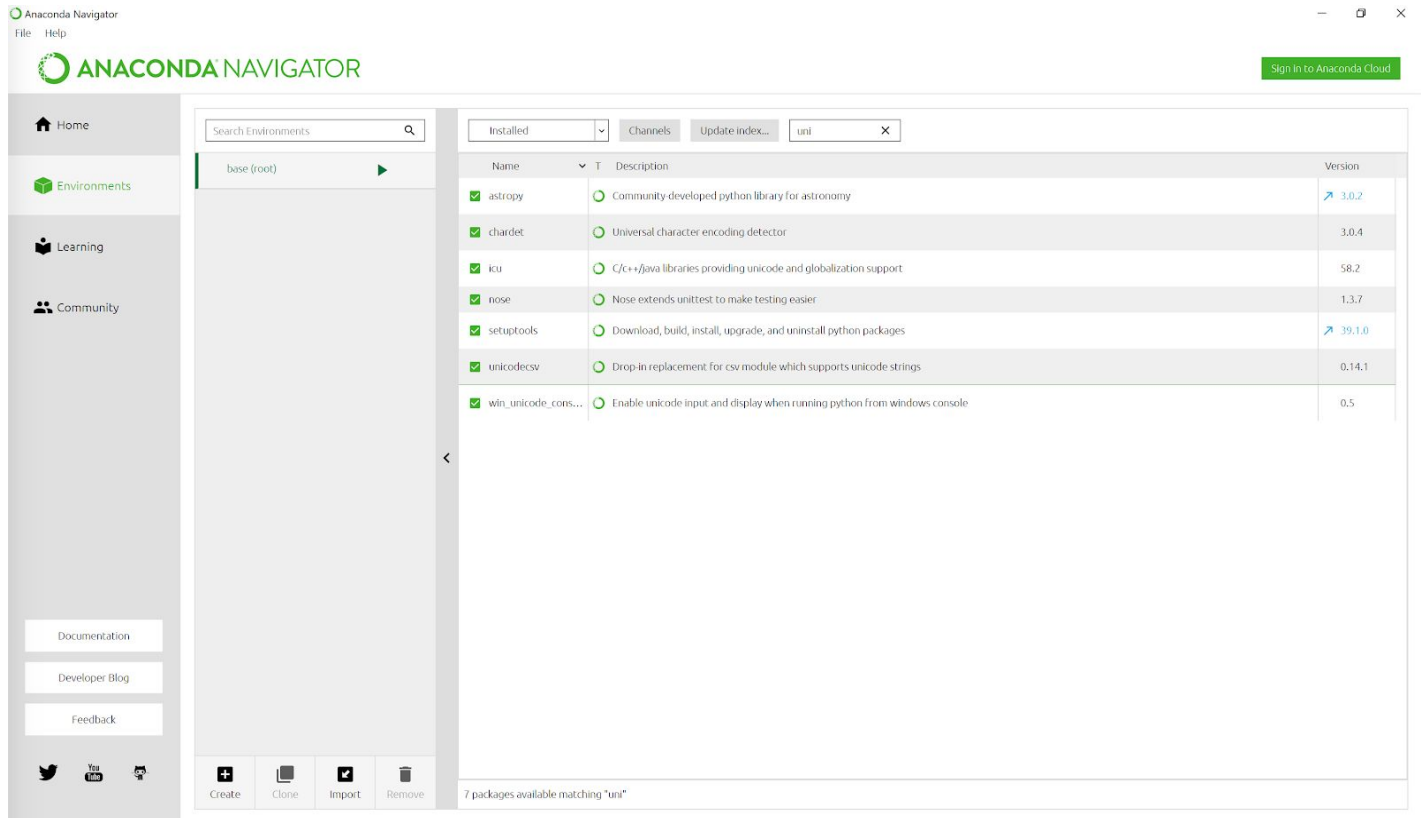
**NOTE:** We will **not** support anything other than the environments we provide to you. If you choose to use something else (like pip), you're on your own in terms of troubleshooting library errors.

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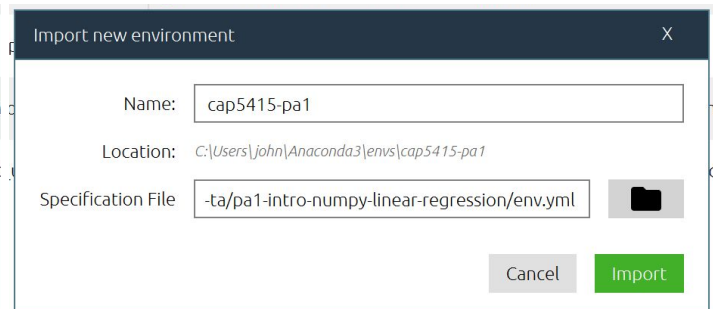
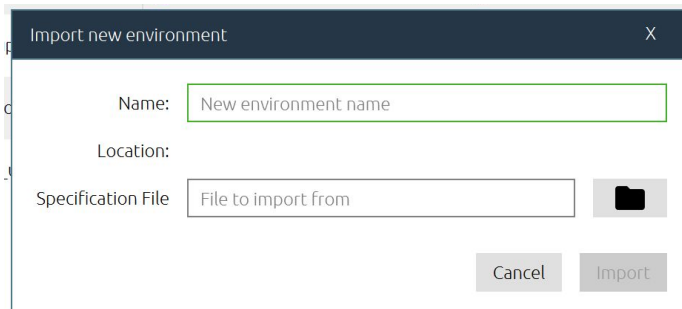
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## On Windows:

1. Install Anaconda for Windows from <https://www.anaconda.com/download/#windows> (pick the Python 3.6 edition).
2. Go through the Graphical Installer.
3. Once this has finished installing, open “Anaconda Navigator”



4. Find your way to “Environments” on the left-hand side.
5. There will be a column immediately to the right of the menu bar you found environments in – at the bottom of that column it will say “Import” – click it.
6. You’ll be prompted to specify a path to an environment file – make your way to this assignment’s **env.yml** file.



7. Click “Import.”

**NOTE:** We will *not* support anything other than the environments we provide to you. If you choose to use something else (like pip), you’re on your own in terms of troubleshooting library errors.

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## Getting Started with Jupyter:

- For our purposes, this is a “good enough” guide to Jupyter:  
<http://stuartmumford.uk/blog/jupyter-notebook-and-conda.html>
- This is a comprehensive guide to using Jupyter:  
<https://www.datacamp.com/community/tutorials/tutorial-jupyter-notebook>
  - DataCamp provides quite a bit more information than you should need, and also installs using Pip – we opt for Anaconda due to its more encompassing nature as a package manager.
  - We suggest immediately hopping down to:  
<https://www.datacamp.com/community/tutorials/tutorial-jupyter-notebook#UseJupyter>

For those of you on Windows, the process should be the same as outlined in each article, however you’ll want to use the “Anaconda Prompt” to do these instead of a typical command-line.

**NOTE:** Prior to launching jupyter notebook you **must** activate the environment.

- On Windows, in Anaconda Prompt, activate `cap5415-pa<N>` where `<N>` is the assignment number.
- On MacOS/Linux, in a shell, source `activate cap5415-pa<N>` where `<N>` is the assignment number.

**NOTE:** We will **not** support anything other than the environments we provide to you. If you choose to use something else (like pip), you’re on your own in terms of troubleshooting library errors.