NRSC7610 Introduction to Systems Neuroscience

Introduction to python analysis

setup instructions

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1 Use Google colab

This is the easiest method. It does not run locally, but instead runs an ipython notebook in the cloud. You will have to sign in to a Google account to run cells in the notebook. It is possible to use your CU Anschutz email for this if desired.

1. Go to https://colab.research.google.com
2. If the *Open* does not automatically open, go to it, select Github, and past the url `https://github.com/danieljdenman/nrsc7610/blob/master/NRSC7610_Intro.ipynb`

If you think that quantitative analyses of any kind will be a part of your PhD, and you don't already have Anaconda and VS code, I recommend following **2** below.

If you started by using Google Colab, but now want to keep growing your use of python, I recommend following **2** below.

2 Use VS Code

This is the slightly more involved method, which involved setting up your computer to run python and ipython notebooks along with a python environment manager.

1. Install Anaconda for package and environment management. This is not strictly necessary, but package environment management is good practice, and pretty critical for scientific coding.
   - Download the Anaconda installer `https://www.anaconda.com/products/individual)and[install](https://docs.conda.io/projects/conda/en/latest/user-guide/install/index.html`
   - Install using the downloaded executable
   - Create a new environment. Open a Terminal (Mac OS X) or the newly installed Anaconda command prompt (Windows). you should see (base) before some other text on the first line. name your environment something short and informative about what it will be used for, e.g.: "'conda create -n NRSC7610"'
2. Install VS code. Choosing an editor or development environment is a personal choice that can generate strong opinions. There are many options. If you don't already have a strong preference, we'll use a fully featured and very popular one, VS Code. If you do already have a strong preference, you should know what to do use it for the course.
   - Download the VS code installer `(https://code.visualstudio.com/)`
   - Install using the downloaded executable
   - Open VS Code and make sure you can see your new environment when selecting a python interpreter. for more, see `https://code.visualstudio.com/docs/python/environments`
3. Get the course repository from GitHub: `https://github.com/danieljdenman/nrsc7610`
   - You can clone a repository using VS Code. see: `https://code.visualstudio.com/docs/sourcecontrol/overview#_cloning-a-repository`
   - In short, click the Explorer panel on the left of VS Code, choose clone repository, and enter the the URL: `https://github.com/danieljdenman/nrsc7610.git`