Erdős Institute Cőde Boot Camp Prerequisite Materials

This folder contains a number of jupyter notebooks that review the minimum knowledge we are asking participants to have. Each notebook will provide a quick review. Students can also test their skills in each topic with the corresponding skill check notebook.

Note that Probability and Statistics will not have a jupyter notebook, but rather a 7 page "cheat sheet" with core concepts from Probability Theory and Statistics. You by no means need to be an expert in probability theory or statistics, but you should have a passing familiarity with the topics presented in the cheat sheet. In lieu of a Skill Check notebook you can practice the problems provided here:
https://www.math.kth.se/matstat/gru/sf1901/TCOMK/exercises.pdf.
You don't need to be able to solve all of the problems at the link, they're just offered as a way for you to practice with answers. Also note that the link was not produced by the boot camp, but was found with a quick Google search.

These materials should be completed in the following order.

1. Start Here! - My First Jupyter Notebook

2. Python Basics

3. pandas

4. numpy

5. Basic Plotting matplotlib

6. Probability and Statistics

We are giving you the materials well in advance of the boot camp start date. Trying to cover everything we've presented here in a short amount of time can be quite overwhelming, especially if you're brand new to python. Be sure to take your time and don't get discouraged, you can do it!