

Week 2 introduces you to Python libraries and concepts used in research.

In week 2, you will:

- Learn about Python scope rules
- Learn the basics of scientific and vectorized computing using `numpy`
- Learn the basics of plotting with `matplotlib.pyplot`
- Learn the basics of random numbers with the `random` module
- Learn how to measure time

Week 2 is divided into four parts. Part 1 covers scope rules and classes. Part 2 covers NumPy. Part 3 covers Matplotlib and Pyplot. Part 4 covers randomness and time. Comprehension checks follow most videos. There is also one homework assignment that will allow you to practice your coding skills.

Some of the Comprehension Checks will require you to work through code. We encourage you to use Python to interactively test out your answers and further your learning