

# Milestone 6 and Lab 11

*Due Monday, May 11 at EOD (end of day)*

## Learning Objectives:

- IV. **How do I communicate science and Python with others?** *How do I learn to use a package provided online?* This milestone will give you the chance to find, install, and implement a piece of code that you really shouldn't have to write from scratch.
- A. **Python is a physical system. Experiment!**
  - B. **Let me Google that for you.**
  - C. **Computing time is cheap—use it.**
  - D. **Read the error output. Read it.**
  - E. **Don't reinvent the wheel.**
  - F. **Write and test, write and test...**

## While You Work: Habit Summary #3

We've talked about six useful habits that scientific programmers have. (See above, and see also page 4 of the syllabus.) You've started using these habits, possibly without knowing it! This part of the milestone will help you notice and solidify those habits.

While you're working, you will doubtless make use of one of these habits. When you notice yourself using one of these habits **about which you haven't already written a summary**, write down the habit and what you used it for. See Milestone 4 for an example.

## Part 1: Find a Useful Python Package Online

Think about what you really shouldn't have to write from scratch, come up with some keywords describing it, and go to Google.

## Part 2: Install It

Either on corn, if it lets you, or on your local machine.

## Part 3: Implement It

Write a piece of code that uses at least one function/class from the package you installed.

This whole process should take 1–2 hours.