Command-line programs with Python EOAS Software Carpentry Workshop

September 25nd, 2015

Command-line programs

- 1. Create a Python module containing functions that can be import-ed into notebooks and other modules.
- 2. Use the values of command-line arguments in a program.
- 3. Read data from standard input in a program so that it can be used in a pipeline.

Switching to shell commands

\$ in front of a command that tells you to run that command in the shell rather than the Python interpreter

Write a command-line program that does addition and subtraction:

& python arith.py add 1 2

3

& python arith.py subtract 3 4

-1

Rewrite readings.py so that it uses -n, -m, and -x instead of --min, --mean, and --max respectively. Is the code easier to read? Is the program easier to understand?

Using the glob module introduced earlier, write a simple version of ls that shows files in the current directory with a particular suffix. A call to this script should look like this:

```
$ python my_ls.py py
left.py
right.py
zero.py
```

Separately, modify readings.py so that if no action is given it displays the means of the data.