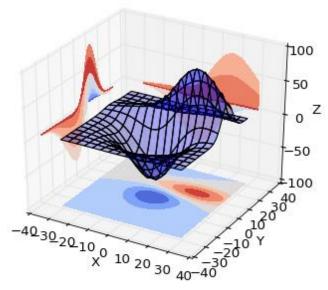
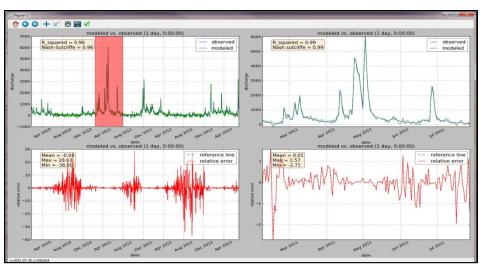
Introduction to Scientific Computing Meeting 28 Programming with Python







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Last Meeting

- Continue to work on python script to read a sample data file using sys.argv and display simple statistics to the screen.
- Show how to develop a basic test for the code using an external test file.

Today's Objective

• See meeting notes.

Let's continue coding!

```
date
       discharge (cfs) stage (ft) temperature (celsius)
01/05/2014 100 12.2
02/08/2014 110 12.8
                       3
03/07/2014 105 12.5
                       10
04/01/2014 98 11.9
                       20
05/04/2014 92 11.5
                       25
06/01/2014 104 12.3
                       28
07/02/2014 97 11.8
                       32
08/03/2014 95 11.7
                       33
09/04/2014 96 11.7
                       27
10/05/2014 101 12.0
11/02/2014 112 13.2
                       15
12/03/2014 109 12.8
```

```
$ python read_measurements.py 2014_measurements_bob.txt
2014_measurements_bob.txt

discharge (cfs):
    Average: 101.583
    Maximum: 112.0 occurred on 11/02/2014
    Minimum: 92.0 occurred on 05/04/2014

stage (ft):
    Average: 12.200
    Maximum: 13.2 occurred on 11/02/2014
    Minimum: 11.5 occurred on 05/04/2014

temperature (celsius):
    Average: 18.750
    Maximum: 33.0 occurred on 08/03/2014
    Minimum: 3.0 occurred on 02/08/2014
```