

Python 2

Objectives

Write code for people, not computers

Break a program into chunks

Write and use functions in Python

Write useful documentation

Challenge 1

Write a function that converts temperature from Fahrenheit to Celsius and use it to replace

```
data['temperature'] = (data['temperature'] -  
32) * 5 / 9.0
```

in our program.

Challenge 2

Write a function called `analyze()` that takes data as an input, performs the regression, makes the observed-predicted plot, and returns parameters.

Challenge 3

Test your temperature conversion function to make sure it's working (think about some temperatures that you easily know the conversion for).

Challenge 4

Add documentation to both the temperature conversion function and the analysis function.

Challenge 5

Modify your code to loop over all of the files in your directory, making an observed-predicted plot for each file and printing the parameters.