Week 3 Lab Assignment Goals

- Use regular expressions¹
- Revise Git commands

Step 1 : Create a GitHub repository

- Go to
 - https://classroom.github.com/assignment-invitations/12785d7afd8ed6ea5e131a5a8b30b ff4
- Accept the assignment invite

Step 2 : Get starter code onto your machine

- Like last week, clone the assignment repository onto your machine
- 'cd' to the cloned directory

Step 3: Regular Expressions - Part 1

- part1.py accepts regular expressions and prints the list of words from 'words.txt' that match the expression. Type Ctrl+C to exit the program.
- Answer the following questions using part1.py and regex documentation.
- Enter your answers in 'part1_answers.txt'
 - 1. How many words end in the letter 'a'?
 - 2. The regex [aeiou]\$ indicates there are 6988 words that end with a vowel. How many words start and end with a vowel?
 - 3. How many words start and end with the same vowel? Extreme and aorta are two such words.
 - 4. The words obsequious and pharmacopoeia each contain four vowels in a row. How many words contain four consecutive vowels?

Step 4 : Regular Expressions - Part 2

- Look at littlebrother.txt. We will be using this file in this section. If you are running into an
 encoding error when opening the file, use: f = open('littlebrother.txt', encoding =
 "ISO-8859-1")
- Create a separate file part2.py, and write code to:
 - 1. Calculate how many web sites start with 'http:' are in littlebrother.txt.
 - 2. Calculate how many words in littlebrother.txt have a number in them (examples: 68, 6A, word2).
 - Calculate how many numbers are in littlebrother.txt (Don't count words that have any symbols that are not digits. 456 is good, but 786-3452 and 6A would not count)
 - 4. Calculate how many words in littlebrother.txt have at least one digit and at least one letter (examples: 63A, word26).
- Enter your answers into part2_answers.txt

¹ This week's lab reuses most of a lab assignment developed by Prof. Susan Rodgers at Duke University.

Step 5 : Commit your changes

• Commit and push all your changes to the remote repository