

CSCI 301 Survey of Scripting Languages  
Fall 2017  
Lab 4 - Regular Expressions

Summary:

The objective of this lab assignment is to learn more about regular expressions.

Instructions:

1. Write a regular expression to match a valid email address. Then write a Perl script that prompts the user to enter an email address and use that regex to tell them if what they entered is actually a valid email address or not.
2. Write a Python script that prints to the console all the words in the included words.txt file that are at least 3 letters in length and start and end with the same letter.
3. Write a Perl script that finds all words in the included words.txt file that contain 3 consecutive vowels and saves these words to a file named triple\_vowels.txt.
4. Write a Python script that uses a dictionary of 26 entries to save how many times each letter in the alphabet starts a word in the included file words.txt. Each key in the dictionary will be a letter and the values will be the number of words that begin with that letter. For this problem you can ignore case. Save the data (one key-value pair per line) in descending order to a file named starting\_letters.txt.
5. Commit your code changes to your repo.

```
$ git add .
```

```
$ git commit -m "lab 4"
```

6. Push your commits to your fork on GitHub.

```
$ git push
```

NOTE: Write your code in the lab04.pl and lab04.py files under the /labs/lab04 folder in the class git repo. To receive full credit, your code must run without errors, produce the correct output, and meet all the required specifications.

Due: Wednesday, October 4, 11:59 PM