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Problem Set 3

**Monday**

1. In this case, the script prints out the GitHub octocat mascot. The script has has the ability to convert any image into ASCII art by simply passing the image as an argument. Screenshot in repo (asciify\_screenshot.png)

2. Command to install delorean: "pip install delorean"

After running the commands from the instructions, this was the output:

"Delorean(datetime=datetime.datetime(2018, 9, 10, 16, 19, 29, 224914), timezone='US/Eastern')"

3.Command used: wget http://www.colorado.edu/

index.html is the output of the command and is included in repo.

4. Command used: grep Colorado index.html -c

There were 17 lines that contained "Colorado"

5. Command used: grep Colorado index.html > search\_results.html

**Wednesday**

Dataset 1: Dataset with all BuffOne card swipes for entry into the gym with all student IDs with timestamps.

Dataset 2: Data on all students, their year, GPA, Major.

Dataset 3: Anonymous survey that asks students about their gym usage, specifically how often they go to the gym, when they go, what they do while they are there, if they go with other people, why they go and how long they are there.

Context:

* Stakeholders: CU Leadership, Facilities Management, Students, Marketing Department
* The goal is to discover more information about student gym habits to optimize facilities and facilitate higher average GPA’s
* The target audience is the CU leadership team who will make the decision on what changes might get made and if they get implemented

Needs:

* CU would be able to fix an un-optimized gym system and make it work to the benefit of students.
* The results will point to factors of students’ gym attendance habits that result in a higher GPA. By knowing these factors, CU will be able to change aspects of the gym experience to be more conducive to the activities that lead to higher GPA’s
* We will have knowledge of CU students’ gym habits and how that relates to GPA

Vision:

* Some techniques that could be used are statistical modeling (correlation, regression, etc.), thematic analysis on the survey data
* When finished, we will have an idea of how well GPA relates to a student’s gym attendance habits and what types of activities students go that may correlate to a higher GPA

Outcome:

* The results will be used to validate previous findings that pointed to higher GPA’s for students who attend the gym regularly. They will also be used to find out what CU students do most at the gym and which of these activities CU should focus on when implementing changes to the gym facilities.
* When we are done, leadership will presumably make a series of decisions of whether or not to go ahead with the changes that may have been prompted by our data
* The Office of Analytics or Facilities Management will most likely be responsible for what happens to the data when we are done.

**Friday:**