**Working With Data**

**Cat –** prints out data in file

* Catting out binaries can cause problems sometimes

**Clear** – clears screen

Cat data | **grep** ‘red’

* Cat the file data.txt
* Will show lines specifically containing ‘red’
* -i makes it not case-sensitive so ‘red’ and ‘Red’ are interchangeable
* -e handles regular expressions

**Replacing text in a file**

Cat data | tr ‘,’ ‘-‘

* This will cat data and replace all commas with hyphens
* Cat data | ‘n\’ ‘,’
* Replaces all line spacings with commas so everything is on the same line

**Grabbing specific words**

Name, age, sex, location

Cat data | cut -d ‘,’ -f1

* -d is the delimiter, how is the info going to split
* ‘,’ specifies the comma between words as the delimiter
* -f1 is field 1 and will only show field 1 i.e., Name
* -f2 is field 2 and will only show field 2 i.e., age

**Word count**

* Cat data | wc
* Gives info in: lines, words and characters
* -l specifies lines

**Sifting through duplicates**

Cat data | sort | uniq

* Will sort file into list and then pull out the unique entries
* -c will give a count of how many duplicates there are next to each unique entries

**Tail** data

* Will grab last 10 items
* -f, locally prints in real-time, good for viewing logs

**Head** data

* Will grab top 10 items
* ‘Head -n5 data’ will grab top 5 items

Cat data | **less**

* Sort through data
* Q exits
* Up/down arrows / mouse wheel

Cat data | **more**

* Sort through data
* Spacebar to move

**Vi** – open or edit a file (similar to nano)

* Vi data2, creates file
* Press ESC when done
* Then w to write
* And q to quit

**HW - Look up Sed, Awk and regular expressions**