Week Report 6

Wildcards

* Wildcard

The Star Wildcard matches from 0 to any number of Characters

- Examples
  - List all the text files in the directory
    - `ls *.txt`
  - List all the files that start with the word file
    - `ls file*`
  - Copy all the mp4 files
    - `cp Downloads/*.mp4 ~/Videos/Movies/`

? Wildcard

The ? wildcard matches a single character

- Examples
  - List all the files that have 3 characters and are followed by the word file in the name
    - `ls *???File*`
  - List all the hidden files in the current directory
    - `ls ./.??*`
  - List all the files that have a three letter file extension
    - `ls *.???`

[] Wildcard

The bracket wildcard matches one character in a range

- Examples
  - List all the files that have a vowel after the letter f
    - `ls f[aeiou]*`
  - List all the files that don't have a vowel after the letter f
    - `ls f[!aeiou]*`
  - ist all the files that have an interger after the letter f
    - `ls f[0-9]*`
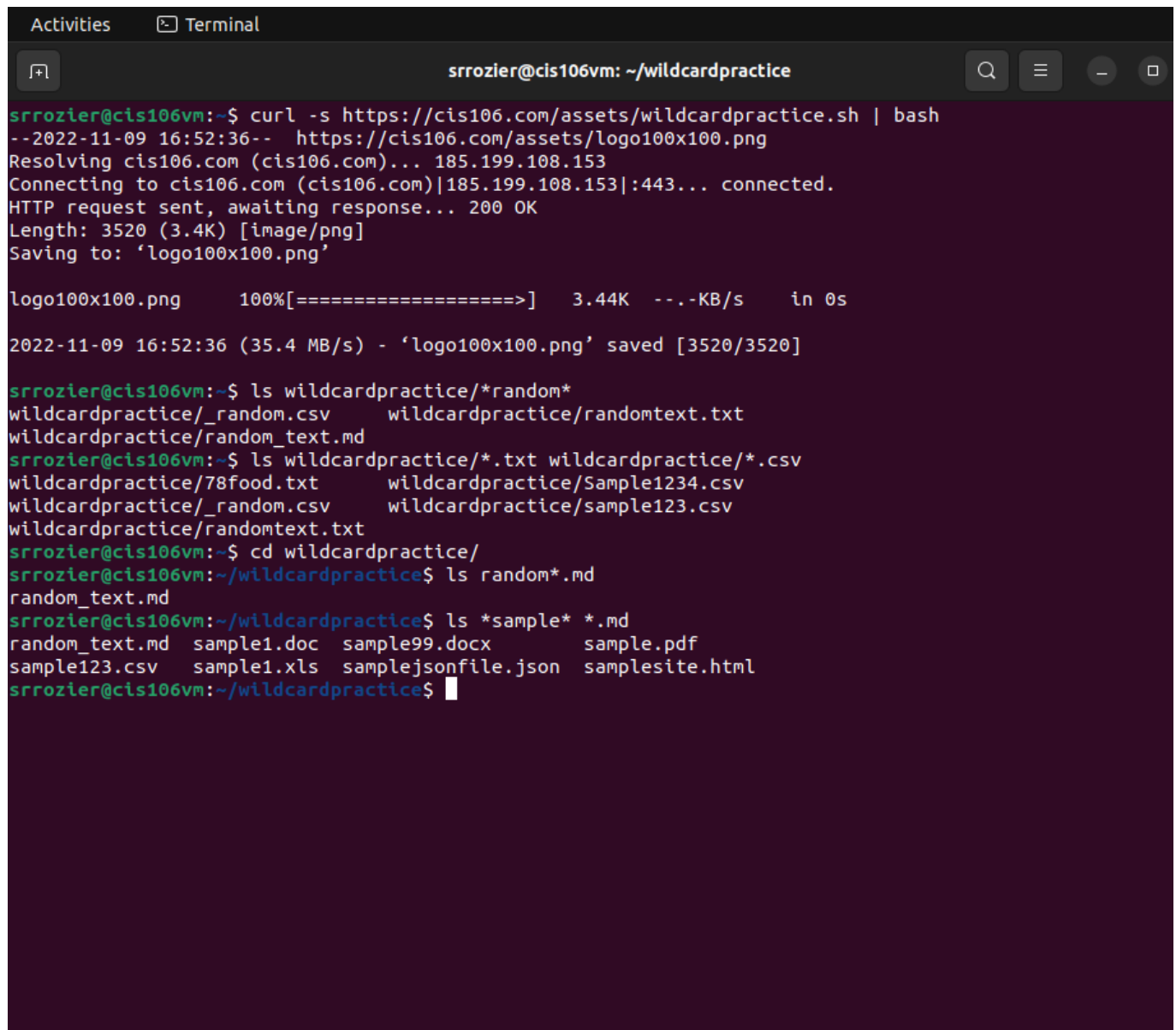
Brace Expansion

Allows you to generate arbitrary strings to use with command

- Examples
  - Create a directory structure in a single command
    - `mkdir -p Music/{Jazz/Rock}/`
  - Create a number of files

- touch website{1..5}.html
  - Remove multiple files in a single directory
    - rm -r {dir1,dir2,dir3,file.txt}

Practice

* Practice

? Practice

```
srrozier@cis106vm: ~/wildcardpractice                    Q  ≡    —  □  ✕

srrozier@cis106vm:~$ cd ~/wildcardpractice/
srrozier@cis106vm:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw   baik.pdf    bk.pdf     file.log        sample1.doc
2022-02-02-camera.jpg    baik.xml    bk.xml     logo100x100.png sample1.xls
78food.txt               beatk.exe   book.exe   _random.csv     sample.pdf
allfiles.lst             beatk.pdf   book.pdf   randomtext.txt  Sample.pdf
Allfiles.lst             beatk.xml   book.xml   Sample1234.csv
baik.exe                 bk.exe      fail.log   sample123.csv
srrozier@cis106vm:~/wildcardpractice$ ls .??*
.bash_history   .hidden1.py    .hidden2.py
.hidden1.doc    .hidden2.doc   .hiddenFile.txt
srrozier@cis106vm:~/wildcardpractice$ ls b??*.???
baik.exe   baik.xml    beatk.pdf  book.exe   book.xml
baik.pdf   beatk.exe   beatk.xml  book.pdf
srrozier@cis106vm:~/wildcardpractice$ ls sample?.*
sample1.doc   sample1.xls
srrozier@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py   .hidden2.py
srrozier@cis106vm:~/wildcardpractice$ ▮
```

[] Practice

```
srrozier@cis106vm: ~/wildcardpractice                    Q  ≡    —  □  ✕

srrozier@cis106vm:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst   beatk.exe   bk.pdf     book.xml          randomtext.txt  sample.pdf
baik.exe       beatk.pdf   bk.xml     fail.log          sample123.csv
baik.pdf       beatk.xml   book.exe   file.log          sample1.doc
baik.xml       bk.exe      book.pdf   logo100x100.png   sample1.xls
srrozier@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
srrozier@cis106vm:~/wildcardpractice$ ls [0-9][0-9][0-9][0-9]*
2020-08-27-capture.raw   2021-04-10-screenshot.jpeg   2022-02-02-camera.jpg
srrozier@cis106vm:~/wildcardpractice$ ls [!AEIOUaeiou]*
2020-08-27-capture.raw         beatk.pdf   fail.log          sample1.doc
2021-04-10-screenshot.jpeg     beatk.xml   file.log          sample1.xls
2022-02-02-camera.jpg          bk.exe      logo100x100.png   sample99.docx
78food.txt                     bk.pdf      _random.csv       samplejsonfile.json
baik.exe                       bk.xml      random_text.md    sample.pdf
baik.pdf                       book.exe    randomtext.txt    Sample.pdf
baik.xml                       book.pdf    Sample1234.csv    samplesite.html
beatk.exe                      book.xml    sample123.csv
srrozier@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
srrozier@cis106vm:~/wildcardpractice$ ▮
```