

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]*`
 - List all the files that have an interger after the letter f
 - `ls f[0-9]*`

Brace Expansion

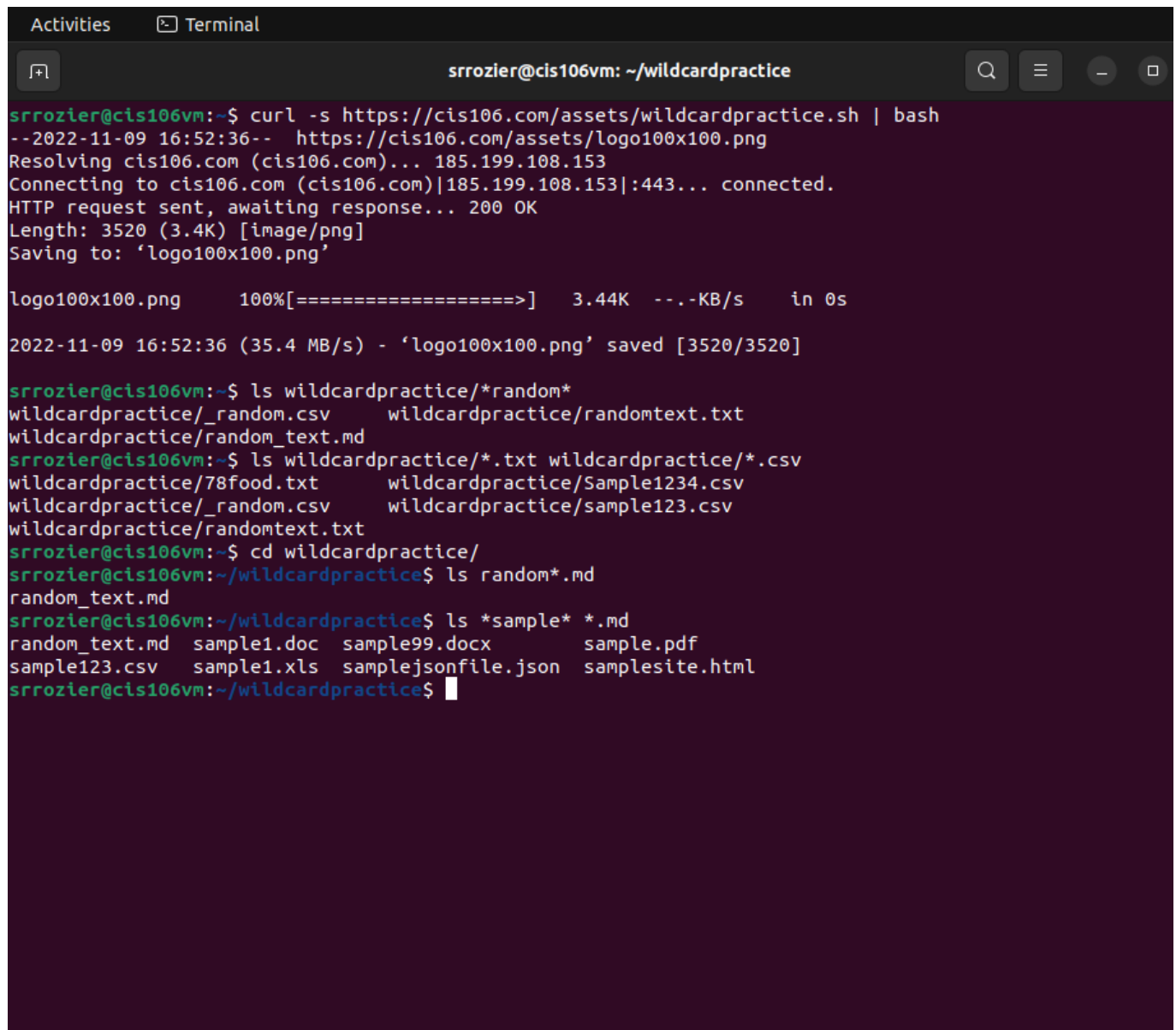
Allows you to generate arbitrary strings to use with command

- 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



```
Activities Terminal
srrozier@cis106vm: ~/wildcardpractice

srrozier@cis106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-11-09 16:52:36-- https://cis106.com/assets/logo100x100.png
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3520 (3.4K) [image/png]
Saving to: 'logo100x100.png'

logo100x100.png  100%[=====>]  3.44K  --.-KB/s  in 0s

2022-11-09 16:52:36 (35.4 MB/s) - 'logo100x100.png' saved [3520/3520]

srrozier@cis106vm:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv  wildcardpractice/randomtext.txt
wildcardpractice/random_text.md
srrozier@cis106vm:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt  wildcardpractice/sample1234.csv
wildcardpractice/_random.csv  wildcardpractice/sample123.csv
wildcardpractice/randomtext.txt
srrozier@cis106vm:~$ cd wildcardpractice/
srrozier@cis106vm:~/wildcardpractice$ ls random*.md
random_text.md
srrozier@cis106vm:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx  sample.pdf
sample123.csv  sample1.xls  samplejsonfile.json  samplesite.html
srrozier@cis106vm:~/wildcardpractice$
```

? Practice

```

srrozier@cis106vm: ~/wildcardpractice
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
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$

```