

Week Report 6

Wildcards:

* Wildcard

The main wildcard is a star or asterisk and it matches anything from 0 to any number of characters

- Example 1:
 - list all the files ending in txt: `ls *.txt`
- Example 2:
 - move files ending in txt: `mv *.txt /Documents/Docs`
- Example 3:
 - copy files containing new and old: `cp *new* *old* /Documents/folder/`

? Wildcard

The question mark wildcard matches precisely one character

- Example 1:
 - list all files that have two characters between letter b and k: `ls b??k*`
- Example 2:
 - List all files that contain single character between letter f and l: `ls f?l*`
- Example 3:
 - list all files with 3 letter file extension: `ls *.???`

[] Wildcard

The brackets wildcard matches a single character in a range

- Example 1:
 - list files with a vowel after letter f: `ls f[aeiou]*`
- Example 2:
 - list all files that contain at least two numbers: `ls *[0-9][0-9]*`
- Example 3:
 - list all files that don't contain a number: `ls *[^0-9]*`

Practices:

Practice 5

```
1/1 + [ ] [ ] TiliX: amejia40854@cis106: ~/wildcardpractice
1: amejia40854@cis106: ~/wildcardpractice
amejia40854@cis106:~/wildcardpractice$ ls *random*
_random.csv  random_text.md  randomtext.txt
amejia40854@cis106:~/wildcardpractice$ ls *.csv *.txt
78food.txt  _random.csv  randomtext.txt  Sample1234.csv  sample123.csv
amejia40854@cis106:~/wildcardpractice$ ls random*.md
random_text.md
amejia40854@cis106:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx  sample.pdf
sample123.csv  sample1.xls  samplejsonfile.json  samplesite.html
amejia40854@cis106:~/wildcardpractice$ |
> sudo |
```

Practice 5

```
1/1 + [ ] [ ] TiliX: amejia40854@cis106: ~/wildcardpractice
1: amejia40854@cis106: ~/wildcardpractice
amejia40854@cis106:~$ cd wildcardpractice/
amejia40854@cis106:~/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
amejia40854@cis106:~/wildcardpractice$ ls .??*
.bash_history  .hidden1.py  .hidden2.py
.hidden1.doc  .hidden2.doc  .hiddenFile.txt
amejia40854@cis106:~/wildcardpractice$ ls b??*.???
baik.exe  baik.xml  beatk.pdf  book.exe  book.xml
baik.pdf  beatk.exe  beatk.xml  book.pdf
amejia40854@cis106:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
amejia40854@cis106:~/wildcardpractice$ ls .??*.??
.hidden1.py  .hidden2.py
amejia40854@cis106:~/wildcardpractice$ |
```

Practice 5

```
1/1 + [T] [R] Tlilx: amejia40854@cis106: ~/wildcardpractice [Q] [≡] [−] [□] [×]
1: amejia40854@cis106: ~/wildcardpractice
amejia40854@cis106:~/wildcardpractice$
amejia40854@cis106:~/wildcardpractice$ ls [a-z]*.[A-z][A-z][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
amejia40854@cis106:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
amejia40854@cis106:~/wildcardpractice$ ls [1-2][0-9][0-9][0-9]*
2020-08-27-capture.raw  2021-04-10-screenshot.jpeg  2022-02-02-camera.jpg
amejia40854@cis106:~/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
amejia40854@cis106:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
amejia40854@cis106:~/wildcardpractice$ |
```

Brace Expansion

Brace expansion {} allows you to generate arbitrary strings to use with commands

- Example 1:
 - Create a whole directory structure in a single command: `mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}`
- Example 2:
 - Create an N number of files to use: `touch site{1..5}.html`
- Example 3:
 - Remove multiple files in a directory: `rm -r {dir1,dir2,dir3,file.txt,image.png}`