

# Week Report 6

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## Wildcards.

### \* Wildcard

The \* wildcard matches from 0 to any number of characters.

- Examples:
  - List all the text file in a 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

- Examples:
  - To list all hidden files use
    - `ls .??*`
  - List all files that have two characters between letter b and k.
    - `ls b??k*`
  - List all the files that have a 3 letter file extension
    - `ls *.???`

### [] Wildcard

- Examples
  - Match all files that have a vowel after letter f:
    - `ls f[aeiou]*`
  - Match all the files that do not have a vowel after letter f:
    - `ls f![aeiou]*`
  - Match all files that have a range of letters after f:
    - `ls f[a-z]`

## Brace Expansion

- Create a whole directory structure in a single command:
  - `mkdir -p music/{jazz,rock}/{mpr3files,videos,oggfiles}/new{1..3}`
- To create a N number of files use:
  - `touch website{1..5}.html`
  - `touch file{A..Z}.txt`
- Remove multiple files in a single directory
  - `rm -r {dir1,dir2,dir3,file.txt,file.py}`

## Practice 1

```

brian@CIS106VM:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
brian@CIS106VM:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt wildcardpractice/_random.csv wildcardpractice/randomtext.txt wild
cardpractice/Sample1234.csv wildcardpractice/sample123.csv
brian@CIS106VM:~$ cd wildcardpractice/
brian@CIS106VM:~/wildcardpractice$ ls random*.md
random_text.md
brian@CIS106VM:~/wildcardpractice$ ls *sample*.md
ls: cannot access '*sample*.md': No such file or directory
brian@CIS106VM:~/wildcardpractice$ ls sample*.md
ls: cannot access 'sample*.md': No such file or directory
brian@CIS106VM:~/wildcardpractice$ ls *sample* *.md
random_text.md sample123.csv sample1.doc sample1.xls sample99.docx samplejsonfile.json sam
ple.pdf samplesite.html
brian@CIS106VM:~/wildcardpractice$

```

## Practice 2

```

brian@CIS106VM:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw baik.exe beatk.xml book.pdf _random.csv sample1.xls
2022-02-02-camera.jpg baik.pdf bk.exe book.xml randomtext.txt sample.pdf
78food.txt baik.xml bk.pdf fail.log Sample1234.csv Sample.pdf
allfiles.lst beatk.exe bk.xml file.log sample123.csv
Allfiles.lst beatk.pdf book.exe logo100x100.png sample1.doc
brian@CIS106VM:~/wildcardpractice$ ls .??*
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
brian@CIS106VM:~/wildcardpractice$ ls b??*.???
baik.exe baik.pdf baik.xml beatk.exe beatk.pdf beatk.xml book.exe book.pdf book.xml
brian@CIS106VM:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
brian@CIS106VM:~/wildcardpractice$ ls .?? .??
ls: cannot access '.??': No such file or directory
ls: cannot access '.??': No such file or directory
brian@CIS106VM:~/wildcardpractice$ ls .??* .??
ls: cannot access '.??': No such file or directory
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
brian@CIS106VM:~/wildcardpractice$

```

## Practice 3

```
brian@CIS106VM:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst  baik.xml  beatk.xml  bk.xml  book.xml  logo100x100.png  sample1.doc
baik.exe     beatk.exe bk.exe     book.exe fail.log  randomtext.txt  sample1.xls
baik.pdf     beatk.pdf bk.pdf     book.pdf file.log  sample123.csv   sample.pdf
brian@CIS106VM:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
brian@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
brian@CIS106VM:~/wildcardpractice$ ls [!AEIOUaeiou]*
2020-08-27-capture.raw  beatk.exe  book.pdf  randomtext.txt  sample.pdf
2021-04-10-screenshot.jpeg  beatk.pdf  book.xml  Sample1234.csv  Sample.pdf
2022-02-02-camera.jpg      beatk.xml  fail.log  sample123.csv   samplesite.html
78food.txt                bk.exe    file.log  sample1.doc
baik.exe                   bk.pdf    logo100x100.png  sample1.xls
baik.pdf                   bk.xml    _random.csv  sample99.docx
baik.xml                   book.exe  random_text.md  samplejsonfile.json
brian@CIS106VM:~/wildcardpractice$ ls [[:punct:]]
ls: cannot access '[:punct:]': No such file or directory
brian@CIS106VM:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
brian@CIS106VM:~/wildcardpractice$
```