

Week Report 6

Wildcards

* Wildcard

The * wildcard will match any character and number. Example:

- To list any text file starting with letter p no matter the extension.
 - `ls p*.txt`
- To list any text file named ubuntu
 - `ls ubuntu.*`
- To move any file with a PDF extension.
 - `mv Downloads/*.pdf ~/Documents/`

? Wildcard

The ? wildcard will precisely match one character, very useful when working with hidden files. Example:

- To list all the files with 2 character extension.
 - `ls *.??`
- To list any file containing 2 characters after the name ubuntu and containing 3 characters as extension.
 - `ls ubuntu??.???`
- To copy all file mp3 and mp4 character extension.
 - `cp ~Downloads/*.mp? ~/Videos/Movies`

[] Wildcard

The [] wildcard will match a single character in a range including numbers and letter. Example:

- To list all the file including a number after the name.
 - `ls file[0-9].*`
- To list all the text file with a vowel after the letter f.
 - `ls f[aeiou]*.txt`
- To list all the PDF files with two number in the beginning.
 - `ls [0-9][0-9]file.pdf`

Brace Expansion

The brace expansion is not a wildcard. Is use to generate arbitrary strings to use with commands to create and remove multiple files and directories at one time. Example:

- To create multiple directories
 - `mkdir -p website/files/{docs,pdf,txt}`
- To remove multiple files
 - `rm -r website/file/{pdf,txt}`
- To create multiple directories with an x number of files

- touch website/logfile{1..10}.txt

Practice * wildcard

```
gpacheco@cis106vm: ~/wildcardpractice
gpacheco@cis106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-04-23 18:04:11-- 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

2023-04-23 18:04:11 (90.9 MB/s) - 'logo100x100.png' saved [3520/3520]

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

Practice ? wildcard

```

gpacheco@cis106vm: ~/wildcardpractice
gpacheco@cis106vm:~$ cd wildcardpractice/
gpacheco@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
gpacheco@cis106vm:~/wildcardpractice$ ls .??*
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
gpacheco@cis106vm:~/wildcardpractice$ ls b???*.???
baik.exe baik.pdf baik.xml beatk.exe beatk.pdf beatk.xml book.exe book.pdf book.xml
gpacheco@cis106vm:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
gpacheco@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
gpacheco@cis106vm:~/wildcardpractice$

```

Practice [] wildcard

```

gpacheco@cis106vm: ~/wildcardpractice
gpacheco@cis106vm:~$ cd wildcardpractice/
gpacheco@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
gpacheco@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
gpacheco@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
gpacheco@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
gpacheco@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
gpacheco@cis106vm:~/wildcardpractice$

```