Week Report 6

Wildcards

* Wildcard

The * Wildcard matches from 0 to any number of characters.

- Examples:
 - List all text files in a directory
 - ls *.txt
 - List all 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:
 - · Lists all hidden files in current directory
 - ls ./.??*
 - Lists all hidden files in parent directory
 - ls ../.??*
 - Lists all files that have a 3 letter file extension
 - * .???

[] Wildcard

The [] Wildcard matches a single character in a range.

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

Brace Expansion

Brace expansion {} is not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands.

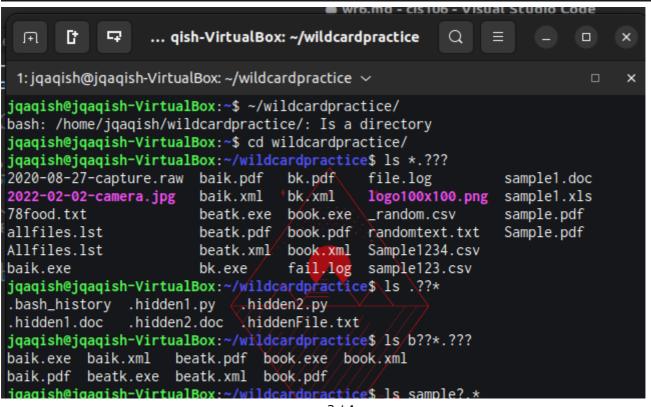
- Examples
 - Create a whole directory structure in a single command
 - mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}

- Create a N number of files used
 - touch website{1..5}.html
- Remove multiple files in a single command
 - rm -r {dir1,dir2,dir3,file.txt,file.py}

Practice

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    Applications

               Places
           Æ
       C†
 1: jqaqish@jqaqish-VirtualBox: ~/wildcardpractice 🗸
jqaqish@jqaqish-VirtualBox:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
mkdir: cannot create directory '/home/jqaqish/wildcardpractice/': File exists
--2023-04-18 16:48:32-- 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.1'
3.44K --.-KB/s
                                                                  in 0.004s
2023-04-18 16:48:32 (900 KB/s) - 'logo100x100.png.1' saved [3520/3520]
jqaqish@jqaqish-VirtualBox:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv
                                wildcardpractice/randomtext.txt
wildcardpractice/random_text.md
jqaqish@jqaqish-VirtualBox:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
                                wildcardpractice/Sample1234.csv
wildcardpractice/78food.txt
wildcardpractice/_random.csv
                                wildcardpractice/sample123.csv
wildcardpractice/randomtext.txt
jqaqish@jqaqish-VirtualBox:~$ cd wildcardpractice/
jqaqish@jqaqish-VirtualBox:~/wildcardpractice$ ls random*.md
random_text.md
jqaqish@jqaqish-VirtualBox:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc.1 sample99.docx
                                                  sample.pdf.1
sample123.csv
               sample1.xls
                             samplejsonfile.json samplesite.html
               sample1.xls.1 sample.pdf
sample1.doc
jqaqish@jqaqish-VirtualBox:~/wildcardpractice$
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sample1.doc sample1.doc.1 sample1.xls sample1.xls.1
jqaqish@jqaqish-VirtualBox:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
jqaqish@jqaqish-VirtualBox:~/wildcardpractice$
```

