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Week Report 6

Wildcards

* Wildcard

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

- Examples:
 - List all the text files 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

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 files that have a file extension name of 3 characters
 - ls *.???
 - List all txt files that start with "memo" and end with one character.
 - ls memo?.txt
- Wildcard
- wildcard matches a single character in a range.
 - Examples:
 - List all files that have any 3 alphabetical character file extension
 - ls *.[a-z][a-z][a-z]
 - List all files whose name does not have a number in their file name
 - ls *[!0-9].*
 - List all files whose name has at least one number:
 - ls *[0-9]*.*

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 N number of files at once
 - touch memo{1..5}.txt

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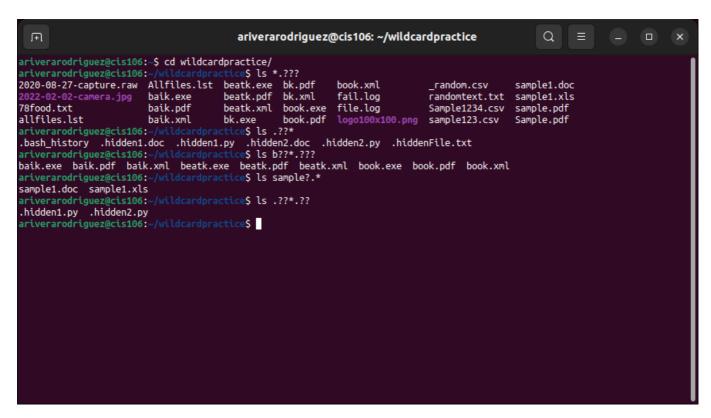
- Create a directory structure in a single command
 - mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}
- Remove multiple files in a single directory
 - rm -r {dir1,dir2,dir3,file.txt,file.py}

Practice

Practice 5

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                                                                   ariverarodriguez@cis106: ~
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 ariverarodriguez@cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-11-29 22:34:23-- 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
2023-11-29 22:34:23 (34.8 MB/s) - 'logo100x100.png' saved [3520/3520]
 ariverarodriguez@cis106:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
ariverarodriguez@cis106:-$ ls wildcardpractice/*.csv wildcardpractice/.txt
ls: cannot access 'wildcardpractice/.txt': No such file or directory
wildcardpractice/_random.csv wildcardpractice/Sample1234.csv wildcardpractice/sample123.csv ariverarodriguez@cis106:~$ ls wildcardpractice/*.csv wildcardpractice/*.txt
wildcardpractice/78food.txt wildcardpractice/randomtext.txt wildcardpractice/sample123.csv wildcardpractice/_random.csv wildcardpractice/Sample1234.csv
 ariverarodriguez@cis106:~$ ls wildcardpractice/random*.md
wildcardpractice/random_text.md
 ariverarodriguez@cis106:-$ ls wildcardpractice/*sample* wildcardpractice/*.md
wildcardpractice/random_text.md wildcardpractice/sample1.xls wildcardpractice/sample123.csv wildcardpractice/sample99.docx
                                                                                                wildcardpractice/sample.pdf
wildcardpractice/sample123.csv
                                                                                                wildcardpractice/samplesite.html
wildcardpractice/sample1.doc
                                            wildcardpractice/samplejsonfile.json
 ariverarodriguez@cis106:~$
```

Practice 6



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Practice 7

