

Week Report 6

Wildcards

Wildcard represents letters and characters used to specify a file name for searches

* Wildcards

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/'

? Wildcards

The ? wildcard matches a single character *Example: *list all the files that have 3 characters and are followed by the word file in the name* *ls ???File *list all the files that have 2 characters and are followed by the word card in the name* *ls ??card *list all the files that have 4 characters and are followed by the word wild in the name* *ls ???wild

[] Wildcards

The [] matches a single character in a range *Example

- to match all the files that have a vowel after f
 - ls f[aeiou]*
- to match all files that do not have a vowel after letter f
 - ls f![aeiou]*
- to 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

- to create a whole directory structure in a single command
 - mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}
- to create a N number of files use
 - touch website{1..5}.html
 - rm -r {dir1,dir2,dir3,file.txt,file.py}

Practice

Practice 5

```

1: keven@cis106: ~/wildcardpractice
keven@cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-11-18 10:18:15-- 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

2023-11-18 10:18:15 (38.3 MB/s) - 'logo100x100.png' saved [3520/3520]

keven@cis106:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
keven@cis106:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt wildcardpractice/_random.csv wildcardpractice/randomtext.txt wildcardpractice/sample1234.csv wildcardpractice/sample123.csv
keven@cis106:~$ cd wildcardpractice/
keven@cis106:~/wildcardpractice$ ls random*.md
random_text.md
keven@cis106:~/wildcardpractice$ ls *sample* *.md
random_text.md sample123.csv sample1.doc sample1.xls sample99.docx samplejsonfile.json sample.pdf samplesite.html
keven@cis106:~/wildcardpractice$ _

```

Practice 6

```

1: keven@cis106: ~/wildcardpractice
keven@cis106:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw 78food.txt Allfiles.lst baik.pdf beatk.exe beatk.xml bk.pdf book.exe book.xml file.log _random.csv Sample1234.csv sample1.doc sample.pdf
2022-02-02-camera.jpg allfiles.lst baik.exe baik.xml beatk.pdf bk.exe bk.xml book.pdf fail.log logo100x100.png randomtext.txt sample123.csv sample1.xls sample.pdf
keven@cis106:~/wildcardpractice$ ls .???
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
keven@cis106:~/wildcardpractice$ ls b???
baik.exe baik.pdf baik.xml beatk.exe beatk.pdf beatk.xml book.exe book.pdf book.xml
keven@cis106:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
keven@cis106:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
keven@cis106:~/wildcardpractice$ _

```

Practice 7

```

1: keven@cis106: ~/wildcardpractice
keven@cis106:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst baik.pdf beatk.exe beatk.xml bk.pdf book.exe book.xml file.log randomtext.txt sample1.doc sample.pdf
baik.exe baik.xml beatk.pdf bk.exe bk.xml book.pdf fail.log logo100x100.png sample123.csv sample1.xls
keven@cis106:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
keven@cis106:~/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
keven@cis106:~/wildcardpractice$ ls [!AETOUaeiou]*
2020-08-27-capture.raw 78food.txt baik.xml beatk.xml bk.xml book.xml logo100x100.png randomtext.txt sample1.doc samplejsonfile.json samplesite.html
2021-04-10-screenshot.jpeg baik.exe beatk.exe bk.exe book.exe fail.log _random.csv Sample1234.csv sample1.xls sample.pdf
2022-02-02-camera.jpg baik.pdf beatk.pdf bk.pdf book.pdf file.log random_text.md sample123.csv sample99.docx Sample.pdf
keven@cis106:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
keven@cis106:~/wildcardpractice$ _

```