

Week Report 6

Wildcards.

* Wildcard

The * wildcard matches from 0 to any number of characters

- Examples
 - Lists all the files that end in .txt
 - `ls *.txt`
 - Lists all the files that end in .txt and .pdf
 - `ls *.txt *.pdf`
 - Lists all the files that have any letter before the string "file" and after as well
 - `ls *file.*`

? Wildcard

The ? wildcard matches only 1 character

- Examples
 - List all the hidden files in the parent directory
 - `ls ../.??*`
 - List all the files that have a single character between letter f and l
 - `ls f?l*`
 - List all the files that have a 3 letter file extension
 - `ls *.???`

[] Wildcard

The [] wildcard matches 1 character from a set

- Examples
 - To match all files that have a vowel after letter f
 - `ls f[aeiou]*`
 - To match all files whose name begins with any 3 combination of numbers and the current user's username
 - `ls [0-9][0-9][0-9]$USER`
 - To match all files whose name has at least one number
 - `ls *[0-9]*`

Brace Expansion

Brace Expansion {} is not a wildcard but it's another feature that bash allows you to generate arbitrary strings to use with commands

- Examples
 - 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`
 - `touch file{A..Z}.txt`
- Remove multiple files in a single directory
 - `rm -r {dir1,dir2,dir3,file.txt,file.py}`

Practice

Practice 5

```

1/1  +  [Icons]  Tilix: ojsevallano@cis106vm: ~/wildcardpractice  [Search] [Menu] [Window] [Close]

1: ojsevallano@cis106vm: ~/wildcardpractice  [Icons] [Close]

ojsevallano@cis106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-11-03 13:32:30-- 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
2022-11-03 13:32:30 (56.8 MB/s) - 'logo100x100.png' saved [3520/3520]

ojsevallano@cis106vm:~$ cd wildcardpractice/
ojsevallano@cis106vm:~/wildcardpractice$ ls *random*
_random.csv random_text.md randomtext.txt
ojsevallano@cis106vm:~/wildcardpractice$ ls *.csv *.txt
78food.txt _random.csv randomtext.txt Sample1234.csv sample123.csv
ojsevallano@cis106vm:~/wildcardpractice$ ls random*.md
random_text.md
ojsevallano@cis106vm:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
ojsevallano@cis106vm:~/wildcardpractice$

```

Practice 6

```

1/1  +  [Icons]  Tilix: ojsevallano@cis106vm: ~/wildcardpractice  [Search] [Menu] [Window] [Close]

1: ojsevallano@cis106vm: ~/wildcardpractice  [Icons] [Close]

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

```

Practice 7

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1/1 + [icons] Tilix: ojsevallano@cis106vm: ~/wildcardpractice [search] [menu] [back] [close]

1: ojsevallano@cis106vm: ~/wildcardpractice ▾

ojsevallano@cis106vm:~/wildcardpractice$ ls [a-z].???
ls: cannot access '[a-z].???': No such file or directory
ojsevallano@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
ojsevallano@cis106vm:~/wildcardpractice$ ls [A-Z][0-9]
ls: cannot access '[A-Z][0-9]': No such file or directory
ojsevallano@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
ojsevallano@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
ojsevallano@cis106vm:~/wildcardpractice$ ls [!AEIOUaeiou]
ls: cannot access '[!AEIOUaeiou]': No such file or directory
ojsevallano@cis106vm:~/wildcardpractice$ ls [!AEIOU] [!aeiou]
ls: cannot access '[!AEIOU]': No such file or directory
ls: cannot access '[!aeiou]': No such file or directory
ojsevallano@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
ojsevallano@cis106vm:~/wildcardpractice$ ls [[:punct:]]
ls: cannot access '[[:punct:]]': No such file or directory
ojsevallano@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
ojsevallano@cis106vm:~/wildcardpractice$
```