

Week Report 6

Wildcards.

* Wildcard

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/'

? Wildcard

The ? wildcard matches a single character

- Examples:
 - to list all hidden files
 - 'ls .??'
 - to list all the files that have 3 characters and are followed by the word file in the same name
 - 'ls ???File*'
 - to list all files that start with letter b
 - 'ls b??'

[] Wildcard

The brackets wildcard match a single character in a range, uses the exclamation mark to reverse the match

- Examples:
 - to match all files that have a vowel after letter 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

The brace expansion {} is not a wildcard but another feature of bash that 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
- remove multiple file in a single directory
 - rm -r {dir1,dir2,dir3,file.txt,file.py}

Practice

Practice 5

```

1/1 ~ + [ ] [ ] Tilix: hellokitty@cis106: ~/wildcardpractice
1: hellokitty@cis106: ~/wildcardpractice ~
hellokitty@cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-12-10 18:47:48-- https://cis106.com/assets/logo100x100.png
Resolving cis106.com (cis106.com)... 2607:7700:0:23:0:1:b9c7:6c99, 185.199.108.153
Connecting to cis106.com (cis106.com)|2607:7700:0:23:0:1:b9c7:6c99|: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
2023-12-10 18:47:48 (59.0 MB/s) - 'logo100x100.png' saved [3520/3520]

hellokitty@cis106:~$ ls *random
ls: cannot access '*random': No such file or directory
hellokitty@cis106:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
hellokitty@cis106:~$ ls wildcardpractice/*csv*
wildcardpractice/_random.csv wildcardpractice/sample1234.csv wildcardpractice/sample123.csv
hellokitty@cis106:~$ ls wildcardpractice/*txt*
wildcardpractice/78food.txt wildcardpractice/randomtext.txt
hellokitty@cis106:~$ cd wildcardpractice/
hellokitty@cis106:~/wildcardpractice$ ls random*.md
random_text.md
hellokitty@cis106:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
hellokitty@cis106:~/wildcardpractice$ _

```

Practice 6

```

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

```

Practice 7

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