

Week Report 6

Wildcards

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

* Wildcard

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

- Examples:
 - List all the files that end in .txt
 - `ls *.txt`
 - list all the files start with the string "file." regardless of their file extension
 - `ls file.*`
 - list all the file that have any letter before the string "file." and after as well
 - `ls *file.*`

? Wildcard

The ? wildcard matches a single character.

- Examples:
 - List all the files that have a single character between letter f and l
 - `ls f?l*`
 - list all the files that have a two character between letter b and k.
 - `ls b??k*`
 - list all the files that have a 3 letter file extension.
 - `ls *.???`

[] Wildcard

The [] wildcard matches a single character in a range The [] wildcard use an ! mark to reverse the match

- Examples:
 - List all files that have a vowel after letter f
 - `ls f[aeiou]`
 - List all the files who name does not have a number in their file name
 - `ls *[^0-9].*`
 - List 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`

Practices

Practice 5

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1/1  +  [ ] [ ]  Tilix: amnoba@c1s106vm: ~  [ ] [ ] [ ] [ ] [ ]
1: amnoba@c1s106vm: ~  [ ] [ ]

amnoba@c1s106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-11-09 23:57:58-- 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

2022-11-09 23:57:58 (37.7 MB/s) - 'logo100x100.png' saved [3520/3520]

amnoba@c1s106vm:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv      wildcardpractice/randomtext.txt
wildcardpractice/random_text.md

amnoba@c1s106vm:~$ ls wildcardpractice/*.csv wildcardpractice/*.txt
wildcardpractice/78food.txt      wildcardpractice/sample1234.csv
wildcardpractice/_random.csv     wildcardpractice/sample123.csv
wildcardpractice/randomtext.txt

amnoba@c1s106vm:~$ ls wildcardpractice/random*.md
wildcardpractice/random_text.md

amnoba@c1s106vm:~$ ls wildcardpractice/*sample* wildcardpractice/*.md
wildcardpractice/random_text.md  wildcardpractice/sample99.docx
wildcardpractice/sample123.csv   wildcardpractice/samplejsonfile.json
wildcardpractice/sample1.doc     wildcardpractice/sample.pdf
wildcardpractice/sample1.xls     wildcardpractice/samplesite.html
amnoba@c1s106vm:~$

```

Practice 6

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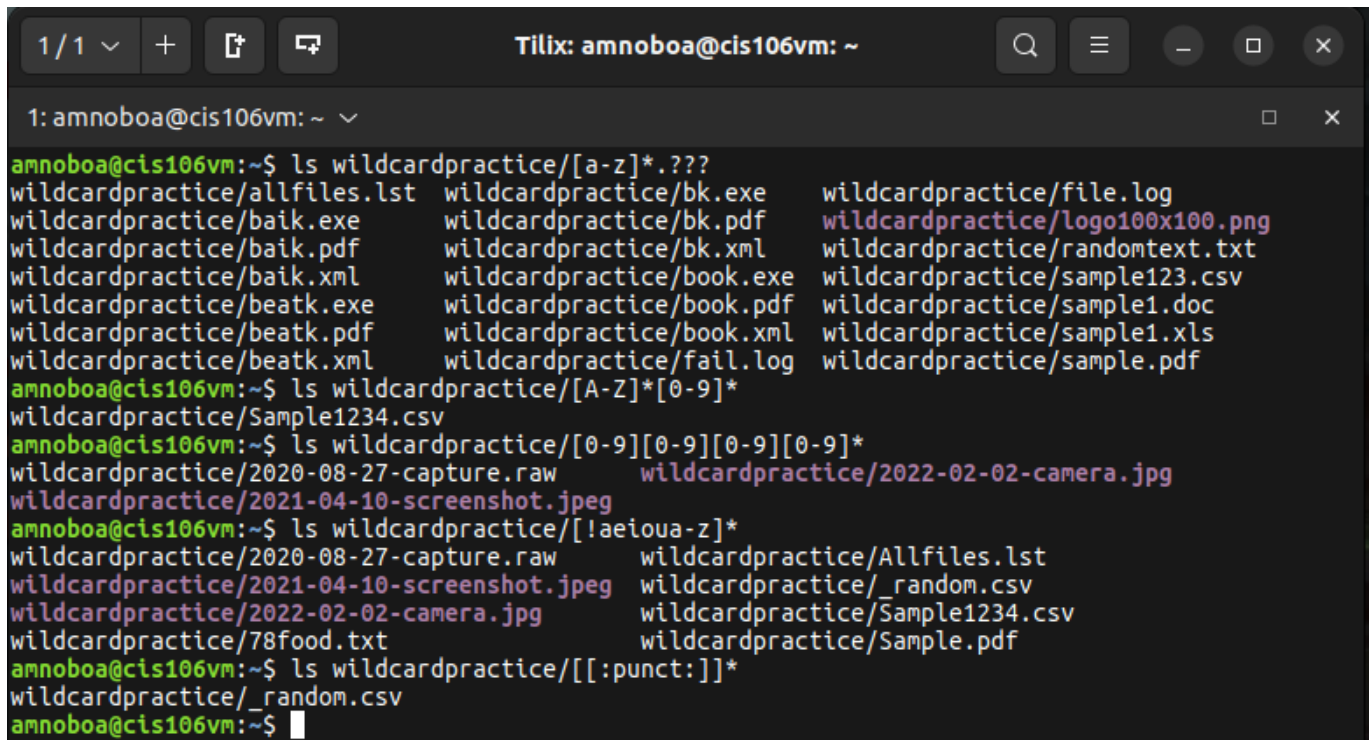
1/1  +  [ ] [ ]  Tilix: amnoba@c1s106vm: ~  [ ] [ ] [ ] [ ] [ ]
1: amnoba@c1s106vm: ~  [ ] [ ]

amnoba@c1s106vm:~$ ls wildcardpractice/*.*
wildcardpractice/2020-08-27-capture.raw  wildcardpractice/book.exe
wildcardpractice/2022-02-02-camera.jpg   wildcardpractice/book.pdf
wildcardpractice/78food.txt              wildcardpractice/book.xml
wildcardpractice/allfiles.lst            wildcardpractice/fail.log
wildcardpractice/Allfiles.lst            wildcardpractice/file.log
wildcardpractice/baik.exe                wildcardpractice/logo100x100.png
wildcardpractice/baik.pdf                wildcardpractice/_random.csv
wildcardpractice/baik.xml                wildcardpractice/randomtext.txt
wildcardpractice/beatk.exe               wildcardpractice/sample1234.csv
wildcardpractice/beatk.pdf               wildcardpractice/sample123.csv
wildcardpractice/beatk.xml               wildcardpractice/sample1.doc
wildcardpractice/bk.exe                  wildcardpractice/sample1.xls
wildcardpractice/bk.pdf                  wildcardpractice/sample.pdf
wildcardpractice/bk.xml                  wildcardpractice/sample.pdf

amnoba@c1s106vm:~$ ls wildcardpractice/*.*
wildcardpractice/.bash_history  wildcardpractice/.hidden1.py  wildcardpractice/.hidden2.py
wildcardpractice/.hidden1.doc  wildcardpractice/.hidden2.doc  wildcardpractice/.hiddenFile.txt
amnoba@c1s106vm:~$ ls wildcardpractice/b??*.??*
wildcardpractice/baik.exe  wildcardpractice/beatk.exe  wildcardpractice/book.exe
wildcardpractice/baik.pdf  wildcardpractice/beatk.pdf  wildcardpractice/book.pdf
wildcardpractice/baik.xml  wildcardpractice/beatk.xml  wildcardpractice/book.xml
amnoba@c1s106vm:~$ ls wildcardpractice/sample?.*
wildcardpractice/sample1.doc  wildcardpractice/sample1.xls
amnoba@c1s106vm:~$ ls wildcardpractice/*.*
wildcardpractice/.hidden1.py  wildcardpractice/.hidden2.py
amnoba@c1s106vm:~$

```

Practice 7



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1 / 1  +  [icon] [icon]  Tilix: amnoboa@cis106vm: ~  [search] [menu] [minus] [maximize] [close]

1: amnoboa@cis106vm: ~  [icon] [close]

amnoboa@cis106vm:~$ ls wildcardpractice/[a-z]*.???
wildcardpractice/allfiles.lst  wildcardpractice/bk.exe      wildcardpractice/file.log
wildcardpractice/baik.exe      wildcardpractice/bk.pdf      wildcardpractice/logo100x100.png
wildcardpractice/baik.pdf      wildcardpractice/bk.xml      wildcardpractice/randomtext.txt
wildcardpractice/baik.xml      wildcardpractice/book.exe     wildcardpractice/sample123.csv
wildcardpractice/beatk.exe     wildcardpractice/book.pdf     wildcardpractice/sample1.doc
wildcardpractice/beatk.pdf     wildcardpractice/book.xml     wildcardpractice/sample1.xls
wildcardpractice/beatk.xml     wildcardpractice/fail.log     wildcardpractice/sample.pdf
amnoboa@cis106vm:~$ ls wildcardpractice/[A-Z]*[0-9]*
wildcardpractice/Sample1234.csv
amnoboa@cis106vm:~$ ls wildcardpractice/[0-9][0-9][0-9][0-9]*
wildcardpractice/2020-08-27-capture.raw  wildcardpractice/2022-02-02-camera.jpg
wildcardpractice/2021-04-10-screenshot.jpeg
amnoboa@cis106vm:~$ ls wildcardpractice/[!aeioua-z]*
wildcardpractice/2020-08-27-capture.raw  wildcardpractice/Allfiles.lst
wildcardpractice/2021-04-10-screenshot.jpeg  wildcardpractice/_random.csv
wildcardpractice/2022-02-02-camera.jpg      wildcardpractice/Sample1234.csv
wildcardpractice/78food.txt                  wildcardpractice/Sample.pdf
amnoboa@cis106vm:~$ ls wildcardpractice/[[:punct:]]*
wildcardpractice/_random.csv
amnoboa@cis106vm:~$

```

{ } Brace Expansion

The {} is not a wildcard but another feature of bash that allows you to generate arbitrary string 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},{0..10}}.js`
 - Remove multiple files in a single directory
 - `rm -r {dir1,dir2,dir3,file.txt,file.py}`