

Notes 6

Defintions of the following commands:

* Wildcard

- Definition:
 - Matches 0 to any number of characters
- Usage:
 - Used to match against zero or more characters in a file (or directory) name.
- Examples:
 - List all of the directories inside a given directory without listing their content
 - `ls -ld wildcard_extra_practice/*/`
 - Move all the `.sh` (shell scripts) files
 - `mv wildcard_extra_practice/*.sh wildcard_extra_practice/scripts/`
 - List and then move all the image files in the `wildcard_extra_practice` directory. You will need to create a directory first.
 - `mkdir wildcard_extra_practice/images/`
 - `ls wildcard_extra_practice/img-*.*`
 - `mv -v wildcard_extra_practice/img-*.*/images/`

? Wildcard

- Definition:
 - Matches 1 character
- Usage:
 - Matches exactly one character in a file or directory name
- Examples:
 - List all the files that contain a 4 letter file extension.
 - `ls -lX wildcard_extra_practice/*.????`
 - List all the files that contain a 4 letter file extension and start with letter i:
 - `ls -lX wildcard_extra_practice/i*.????`
 - List all th files Microsoft Office 365 files.
 - `ls -lX wildcard_extra_practice/*.???x`

[] Wildcard

- Definition:
 - Matches 1 character from a set
 - Usage:
 - Used to match a single character in a range
 - Examples:
 - List all the files that start with a capital letter
 - `ls wildcard_extra_practice/[A-Z]*`
 - List all the files that contain a number in their name
 - `ls wildcard_extra_practice/[0-9]`
 - To match all files that have a vowel after letter f:
 - `ls f[aeiou]*`
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- Usage:
 - 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`
 - `touch file{A..Z}.txt`
 - `touch file{001..10}.py`
 - `touch file{{a..z},{0..10}}.js`
 - Remove multiple files in a single directory
 - `rm -r {dir1,dir2,dir2,file.txt,file.py}`
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