

### Directory Navigation

| What?                       | Command                    | Description  |
|-----------------------------|----------------------------|--|
| print working directory     | <code>pwd</code>           | displays current working directory   |
| Listing                     | <code>ls</code>            | list the contents of the current directory                                   |
| Listing -classify           | <code>ls -F</code>         | classify the listing (directories, links, executables)                       |
| Use a command               | <code>ls --help</code>     | displays more information on how to use the command or program.              |
| Listing + option + Argument | <code>ls -F Desktop</code> | The argument Desktop tells ls that we want a listing of a specific directory |
| change directory            | <code>cd</code>            | The cd command is akin to double-clicking a folder in a GUI                  |
| cd to parent                | <code>cd ..</code>         | move up one directory level  |
| cd to previous              | <code>cd -</code>          | cd back and forth between current and last directory                         |
| cd to home                  | <code>cd ~/folder</code>   | (~) character at the start of a path = "the current user's home directory"   |

<https://swcarpentry.github.io/shell-novice/02-filedir.html>

### Directory Creation

| What?                        | Command   | Description  |
|------------------------------|---|--|
| Make directory               | <code>mkdir example</code>                      | Make a new directory 'example' is created in the current working directory   |
| mkdir plus child directories | <code>mkdir -p ../example/a ../example/b</code> | Create a directory with nested subdirectories in a single operation  |
| List all subdirs             | <code>ls -R ../example</code>                   | List everything in the indicated dir, including subdirectories. would show:<br><pre>../example/: a/ b/ ../example/a: ../example/b:</pre> |
| Create a file                | <code>touch file.txt</code>                     | Create a blank file in the specified format  |

<https://swcarpentry.github.io/shell-novice/03-create.html>

### Deleting, Moving & Copying

### Multi-file & multi-folder actions

| What?                     | Command                                    | Description   |
|---------------------------|--|---|
| Move                      | <code>mv -i old.txt dir/new.txt</code>     | Moves file to new location  |
| Move (rename)             | <code>mv -i abc.txt def.txt</code>         | renames a file (with confirmation prompt)   |
| Move to current directory | <code>mv dir/new.txt .</code>              | Moves the specified file to the cd  |
| Copy a file or dir        | <code>cp abc.txt letter s/a bcd.txt</code> | Copy a file or directory to the specified location/filename.  |
| Copy a dir + all contents | <code>cp -r abc abc-backup</code>          | recursive option -r, e.g. to backup a directory   |
| remove a file             | <code>rm -i example.txt</code>             | removes the indicated file  |
| remove a folder           | <code>rm -r -i</code>                      | Removes the indicated folder by including recursive (-r), includes confirmation prompt (-i).<br><b>Warning</b> no trash bin in linux, gone is gone! |

| What?               | Command                                     | Description  |
|---------------------|---|--|
| Copy multiple files | <code>cp file1.txt file2.txt backup/</code> | Copies the three specified files to the backup folder                              |
| Wildcards *         | <code>cp *.txt text-files/</code>           | * represents zero or more other characters. so in this case all .txt files         |
| Wildcard ?          | <code>cp data?.txt</code>                   | ? represents exactly one character. So data1.txt AND data2.txt, but not data11.txt |

<https://swcarpentry.github.io/shell-novice/03-create.html#operations-with-multiple-files-and-directories>

<https://swcarpentry.github.io/shell-novice/03-create.html#moving-files-and-directories>

| Removing Files & Directories |                                |   |
|------------------------------|--------------------------------|---|
| What?                        | Command                        | Description   |
| remove a file                | <code>rm -i example.txt</code> | removes the indicated file  |
| remove a folder              | <code>rm -r -i</code>          | Removes the indicated folder by including recursive (-r), includes confirmation prompt (-i).<br><b>Warning</b> no trash bin in linux, gone is gone! |

<https://swcarpentry.github.io/shell-novice/03-create.html#moving-files-and-directories>

