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# Week Report 5

## Managing files and directories

#### Commands

| Definition   | Usage  | Example   |
|--|--|---|
| mkdir is a command used for creating a single directories or multiple directories.   | To create a directory with mkdir type: mkdir + the name of the directory                           | <pre>mkdir-p website/assets/{img,videos,music}</pre>                        |
| touch is a command used to<br>create files and updates the given<br>file's timestamp. If the file does<br>not exit, it creates a new file  | To create a file type:touch + the name of the file   | touch shopping_lists.txt  |
| rm is a command to used remove files. rm by default does not remove directories. To remove a directory use rm -r option.   | To remove a non-<br>empty directory<br>type: rm -r +<br>directory to be<br>removed                 | rm-rwebsite/  |
| rmdir is a command used to remove empty directories  | To remove empty directories use rmdir + directory to be removed                                    | rmdirwebsite/assets/music/  |
| mv is a command use to move and rename directories. Where source is the file or directory that you want to move and destination is where the directory or file is going. Both, source and destination can be either absolute or relative path. | The basic formula of the mv command is: mv + source + destination                                  | To move a directory of file use: mv /Downloads/week5.md cis106-spring/week5 |
| op is a command used to copy file/directories from a source to a destination.  | The cp command uses the same structure as the my command: cp+ file/directory to copy + destination | <pre>cp / Downloads / wallpapers /    /Pictures / wallpapers /</pre>        |

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| Definition  | Usage  | Example                               |
|---|--|---------------------------------------|
| In is a command used to create a hard link of file. Hard links point to the data of a file on the hard drive. Therefore they share the same inode number. | To create a hard link type: ln + file name + new hard link file name | <pre>ln file ~/Downloads/fileHL</pre> |
| man are documentation files that describe linux shell commands, executable programs, system calls, special files, and so forth.                           | To view the manual of a command type:                                | man ls                                |

### Brace expansion and how to use it

Brace expansion is not a wild card, but another feature of bash that allows you to generate arbitrary strings to use with commands.

#### For example:

- To create a whole directory structure in a single command type: mkdir -p ~/Music/music/{jazz,rock}/{mp3files,music videos,otherfiles}/new{1...3}
- To create N number of files type: touch website{1...7}.html
- To remove multiple files type: rm -r {dir2, dir3, file.txt, file2.txt}