Cheatsheets / **Learn the Command Line**

Navigating the File System

Print Working Directory `pwd`

The shell command `pwd` displays the file path from the root directory to the current
working directory.

```
$ pwd
/Users/sonny/Downloads
```

Make Directory `mkdir`

The shell command `mkdir` can be used to make a new directory in the filesystem
according to its argument. If a file path is given, the new directory will be placed at the
end. Otherwise, it will create a new directory in the current working directory with the
name given.

```
$ mkdir new-directory
$ ls
old-directory    new-directory
```

List `ls`

The shell command `ls` is used to list the contents of directories. If no arguments are
given, it will list the contents of the current working directory.

```
$ ls Desktop
resume.pdf
photo.png
```

cd Change Directory

The shell command `cd` can be used to move throughout the filesystem of a computer. It accepts a variety of arguments:

- Full file paths.

- Names of children of the current directory.

- `..` the parent of the current directory.

```
$ cd some-directory
$ cd ..
```

Filesystem Structure

A computer's filesystem organizes the data stored by a computer, so that it can be easily retrieved by the user. Files are typically represented by a tree-like structure, in which any parent directory can have any number of children.

The *root directory* is then found at the base of the tree.

touch Create New File

The shell command `touch` creates a new file in the current working directory with the name provided.

```
$ touch secret-file.txt
```

The Command Line

The *command line* allows a user to navigate the filesystem and run built-in programs or custom scripts. In Unix, the command line interface is called Bash, and the shell prompt is the `$`.

```
$
```

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