

# Navigating the File System

#### pwd Print Working Directory

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

\$ pwd /Users/sonny/Downloads

#### mkdir Make Directory

The shell command mkdir is 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.

\$ mkdir new-directory \$ 15 old-directory new-directory

#### 1s List

The shell command 1s is used to list the contents of a directory. If no arguments are given, it will list the contents of the current working directory.

\$ 1s Desktop resume.pdf photo.png

### cd Change Directory

The shell command cd is 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 generally represented in 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 grocery-list.txt

#### **The Command Line**

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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 \$ .

\$

## **Helper Commands**

Helper commands for the command line include:

tab to autocomplete the line

↑ and ↓ to cycle through previous commands