

Navigating the File System

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 \$.

\$

List 1s

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

\$ 1s Desktop resume.pdf photo.png

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.

Print Working Directory pwd

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

cd Change Directory

- Names of children of the current directory.
- the parent of the current directory.

\$ pwd
/Users/sonny/Downloads

\$ cd some-directory

\$ cd ..

Make Directory mkdir

code cademy

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

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