

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
$ ls
old-directory new-directory
```

1s List

The shell command ls 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.

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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

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:

- clear to clear the terminal
- tab to autocomplete the line
- ↑ and ↓ to cycle through previous commands



