

Navigating the File System

ls List

The shell command <code>ls</code> is used to list the contents of a directory. If no arguments are given, it will list the contents of the current working directory.

\$ ls Desktop
resume.pdf
photo.png

new-directory

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 new-directory

mkdir Make Directory

The shell command <code>mkdir</code> 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.

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.

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.

\$ cd some-directory

old-directory

\$ cd ..

\$ ls

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:

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

\$