The Command Line

The command line is a text interface for your computer. It's a program that takes in commands, which it passes on to the computer's operating system to run.

From the command line, you can navigate through files and folders on your computer, just as you would with Finder on Mac OS or Windows Explorer on Windows. The difference is that the command line is fully text-based.





Last login: Sat Jul 1 22:22:05 on ttys000

-bash: /Users/eric/.profile: No such file or directory en-imac:~ eric\$



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♠ eric — -bash — 97×43
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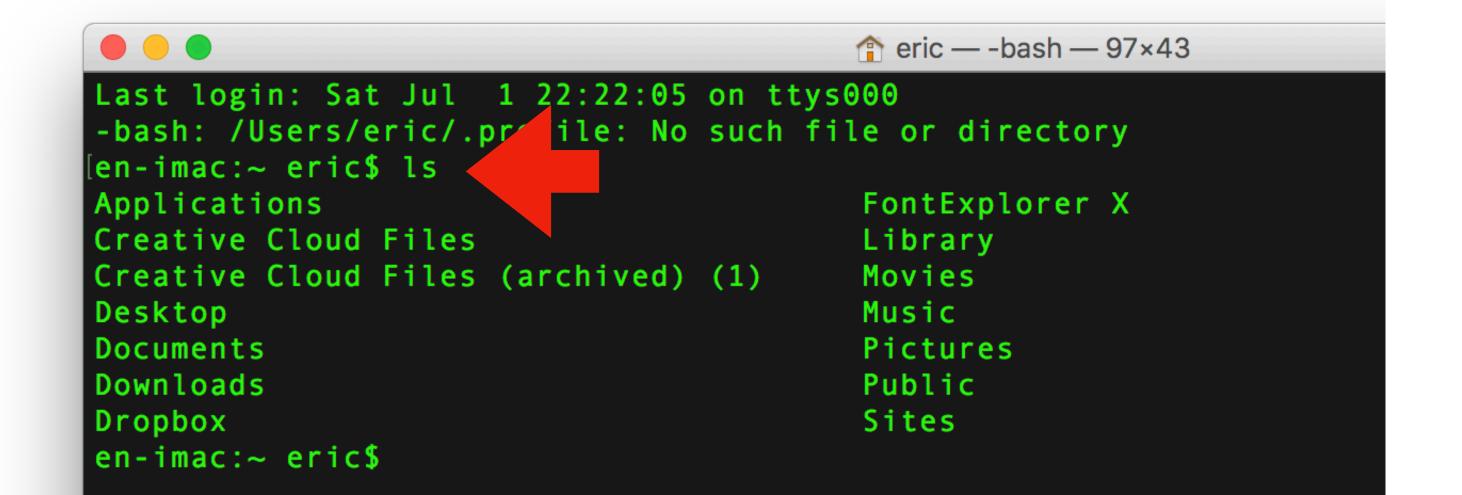
Last login: Sat Jul 1 22:22:05 on ttys000

-bash: /Users/eric/.profile: No such file or directory

en-imac:~ eric\$



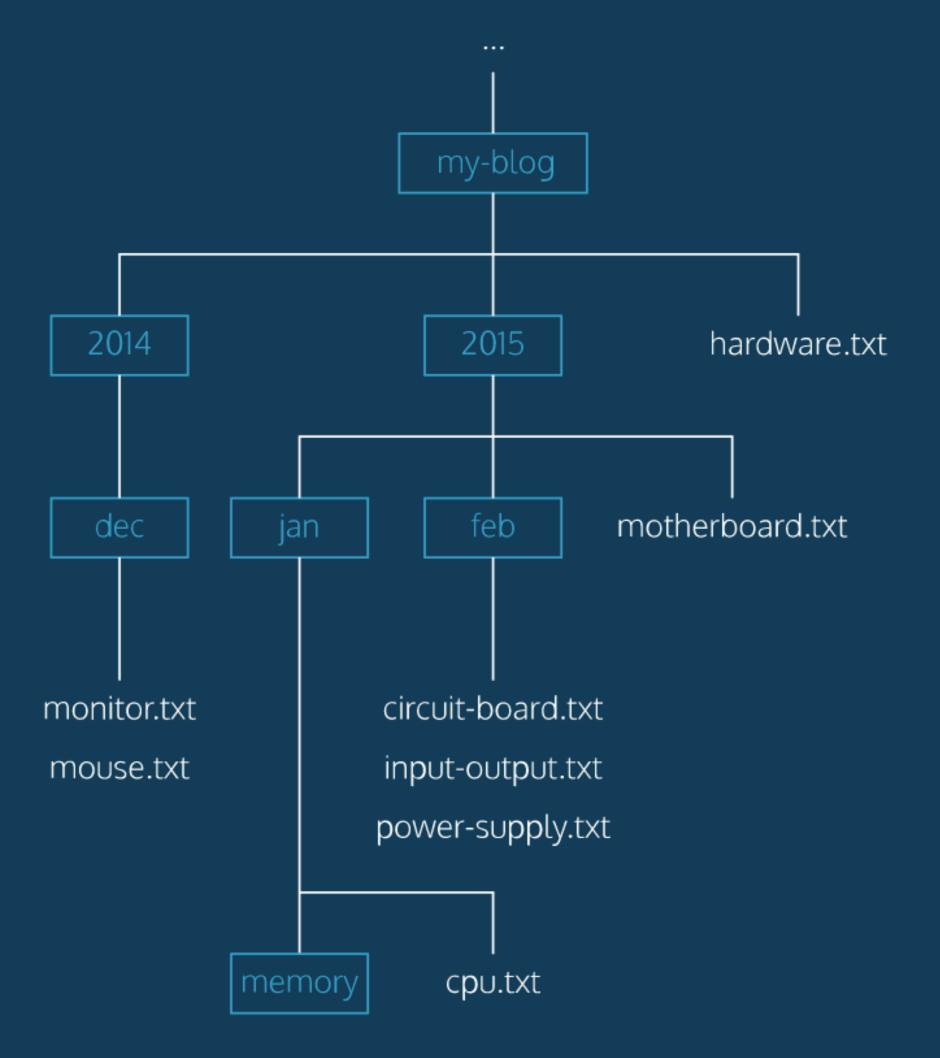
In the terminal, first you see ...
This is called a *shell prompt*. It appears when the terminal is ready to accept a command.



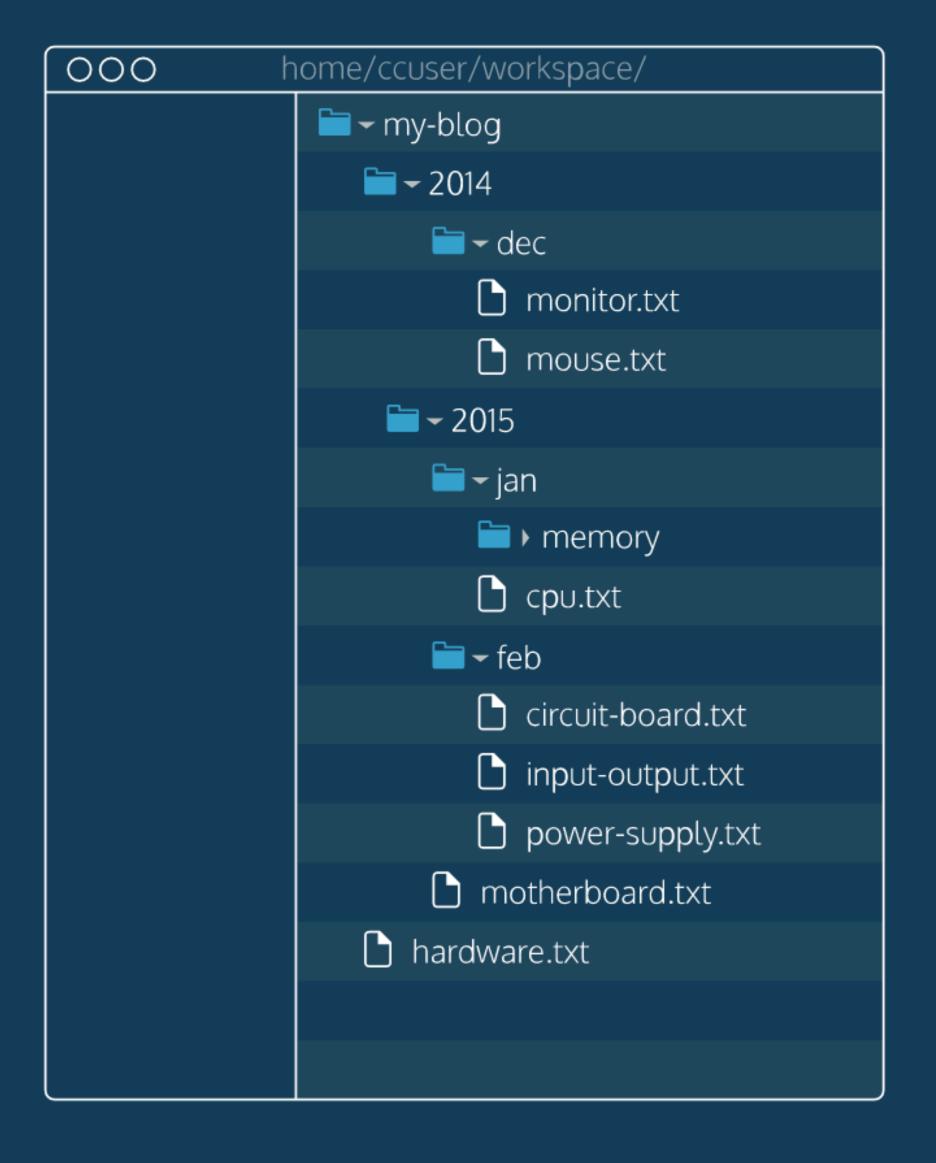
Lets try entering a command. If we type s and press return we see a list of the files and directories in the folder you are currently in.

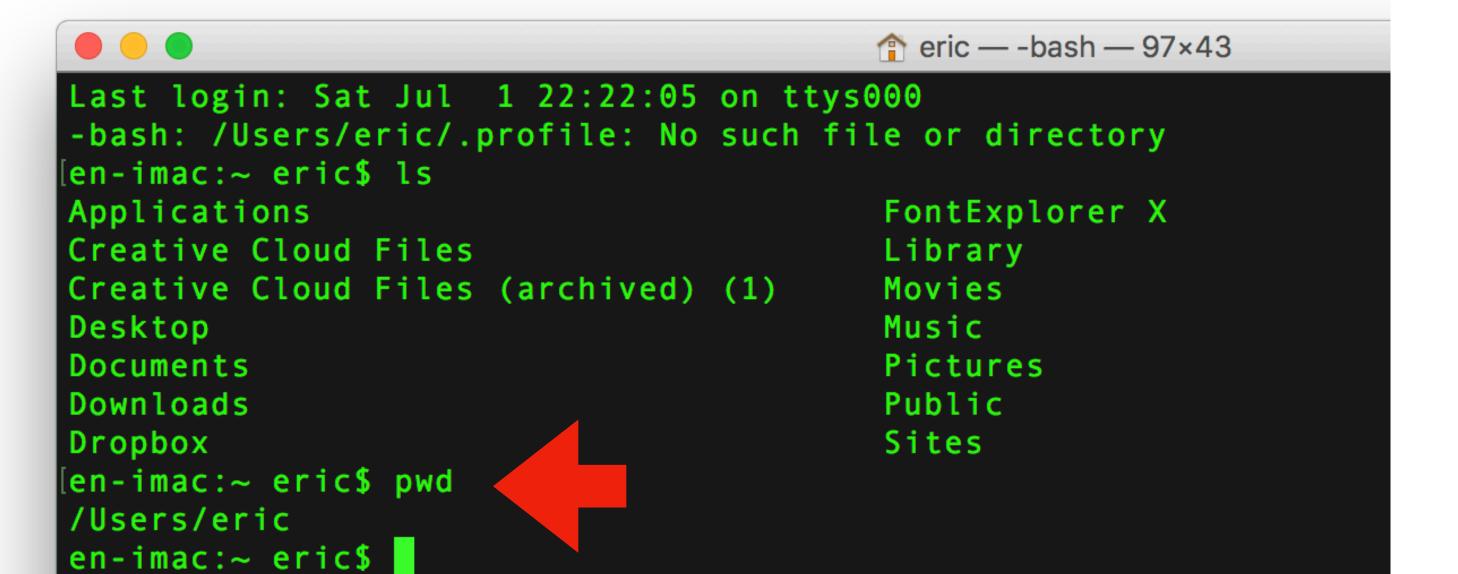
When using the command line, we refer to folders as *directories*. Files and directories on your computer are organized into a *filesystem*.

Filesystem Tree

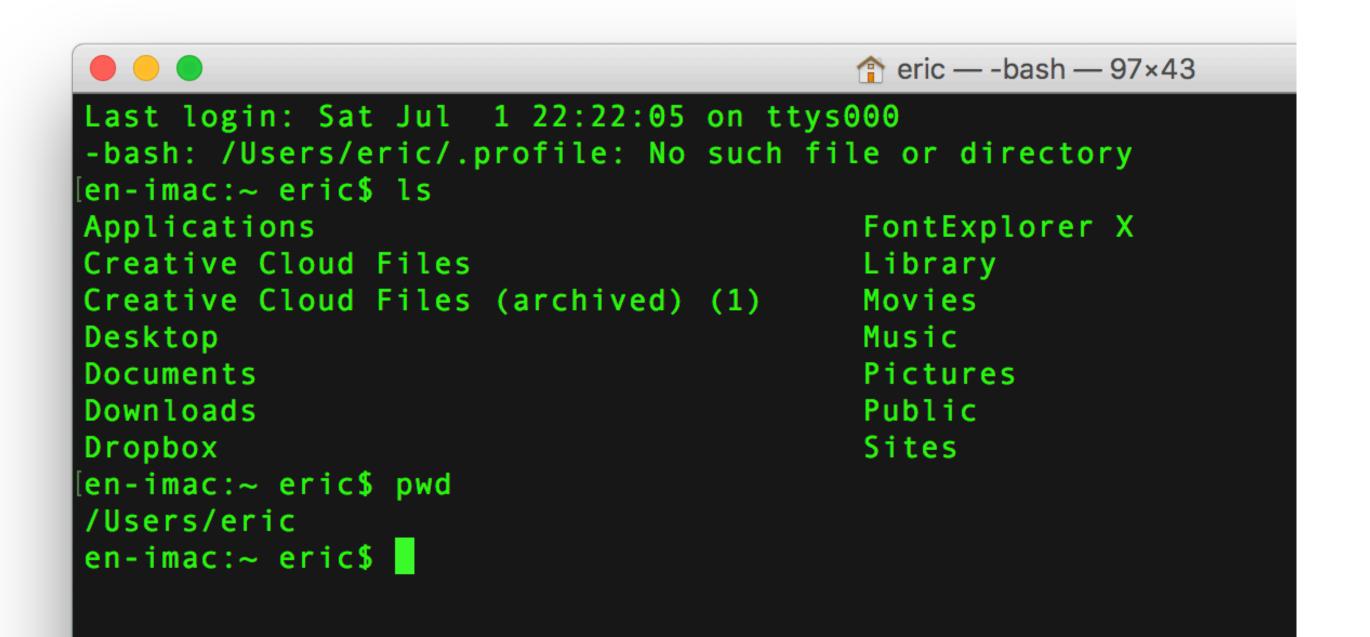


File Manager Graphical Interface

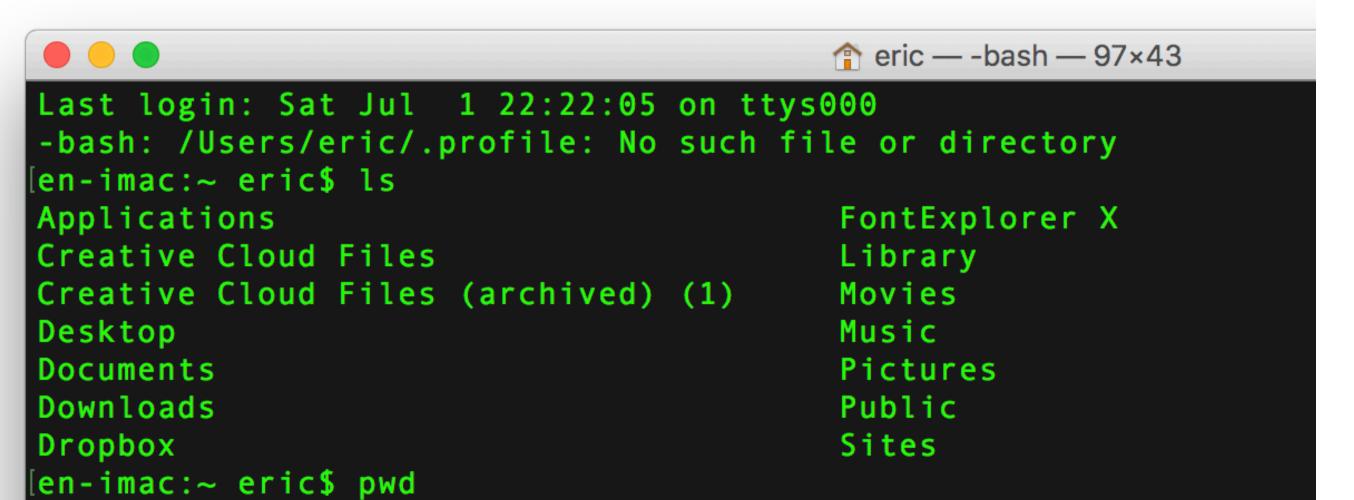




Let's see how to navigate the filesystem from the command line. In the terminal, after the shell prompt, type owd and press Enter.



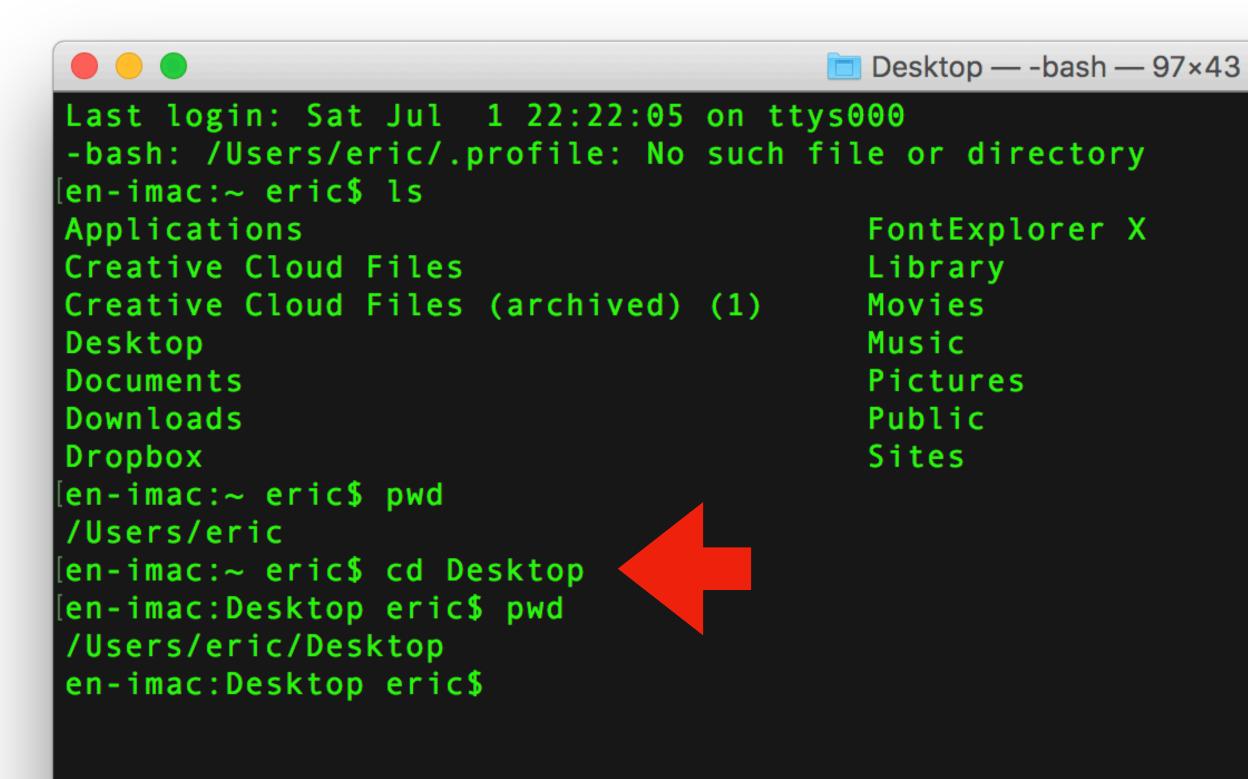
owd stands for "print working directory". It outputs the name of the directory you are currently in, called the working directory.



/Users/eric

en-imac:~ eric\$

Together with s, the pwc command is useful to show where you are in the filesystem.



Now lets try typing cd.

This stands for "change directory". Just as you would click on a folder in Windows Explorer or Finder, co switches you into the directory you specify. In other words, co changes the working directory.

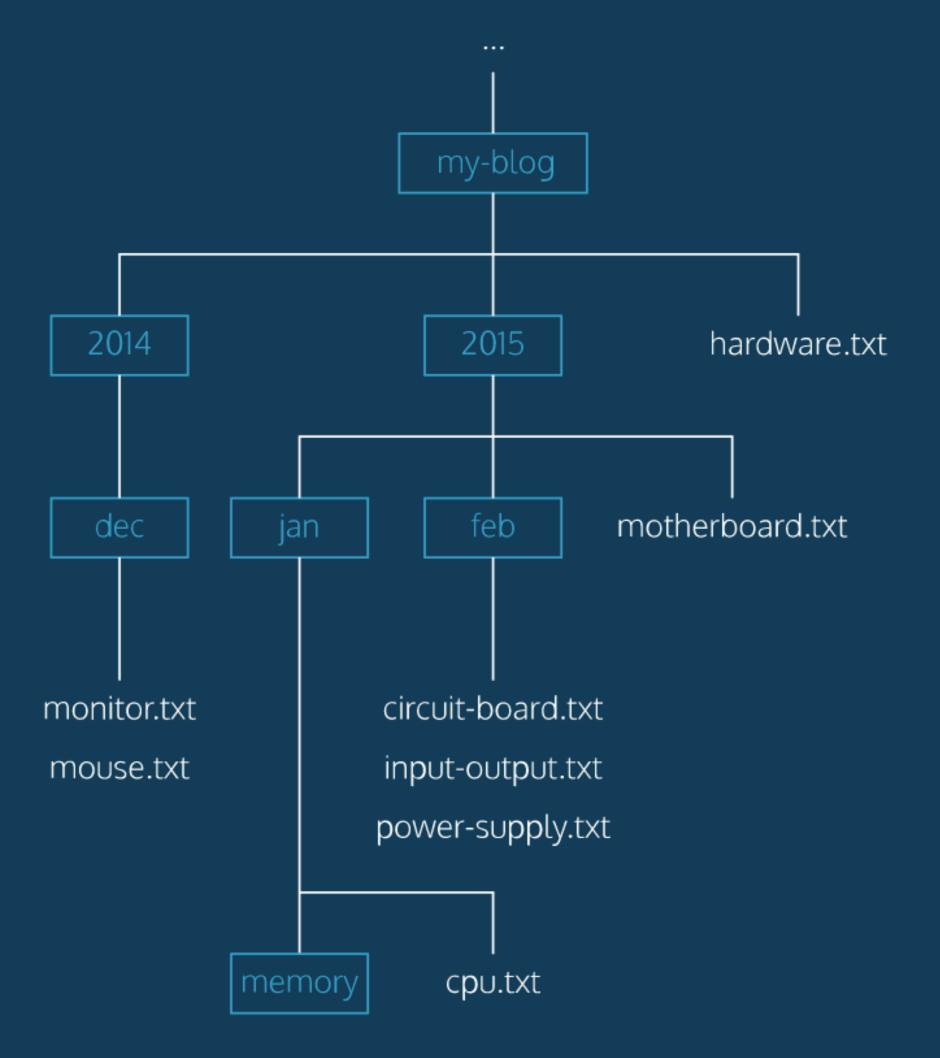
To navigate directly to a directory, use cd with the directory's path as an argument. You can also take several steps in one command. For example

cd jan/memory/

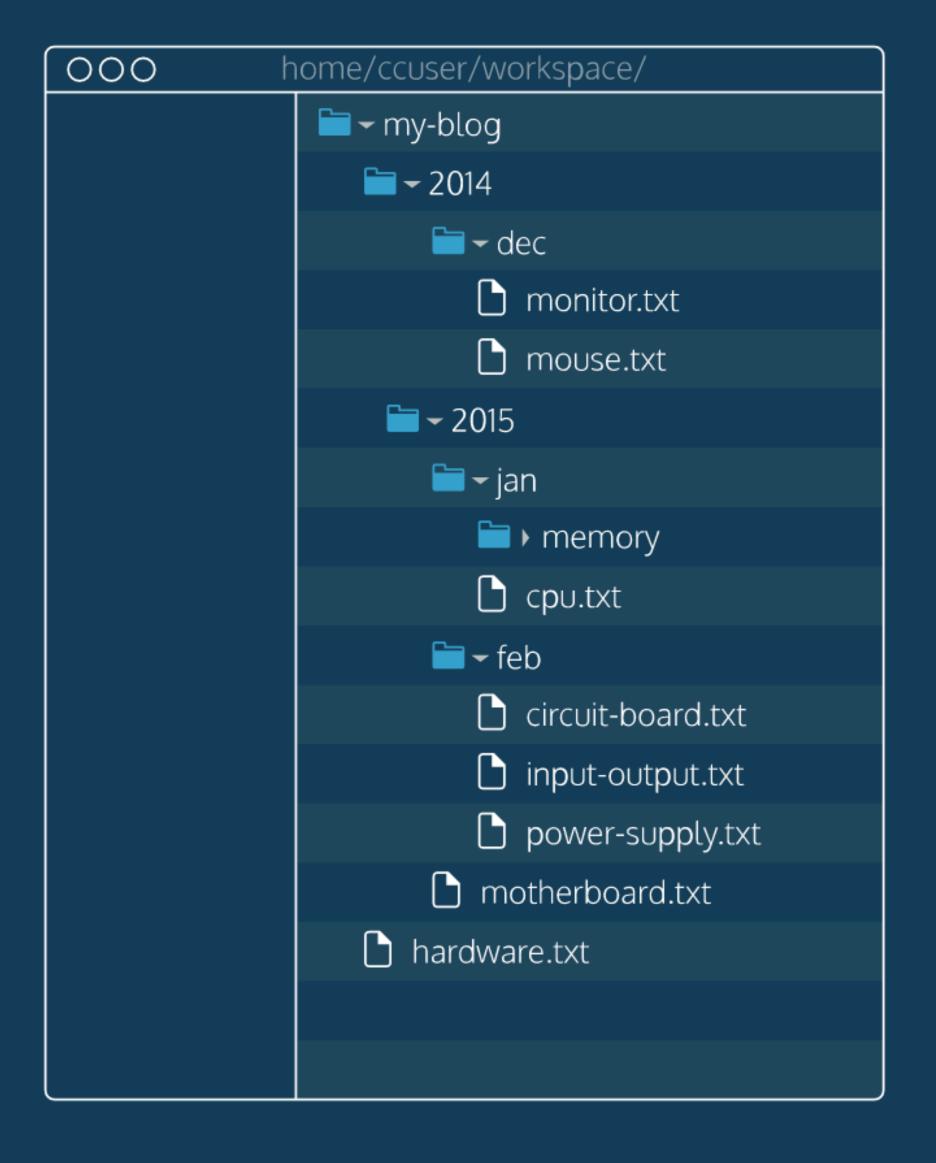
command navigates directly to the jan/ memory directory. Passing .. as the argument would move up one directory.

cd...

Filesystem Tree



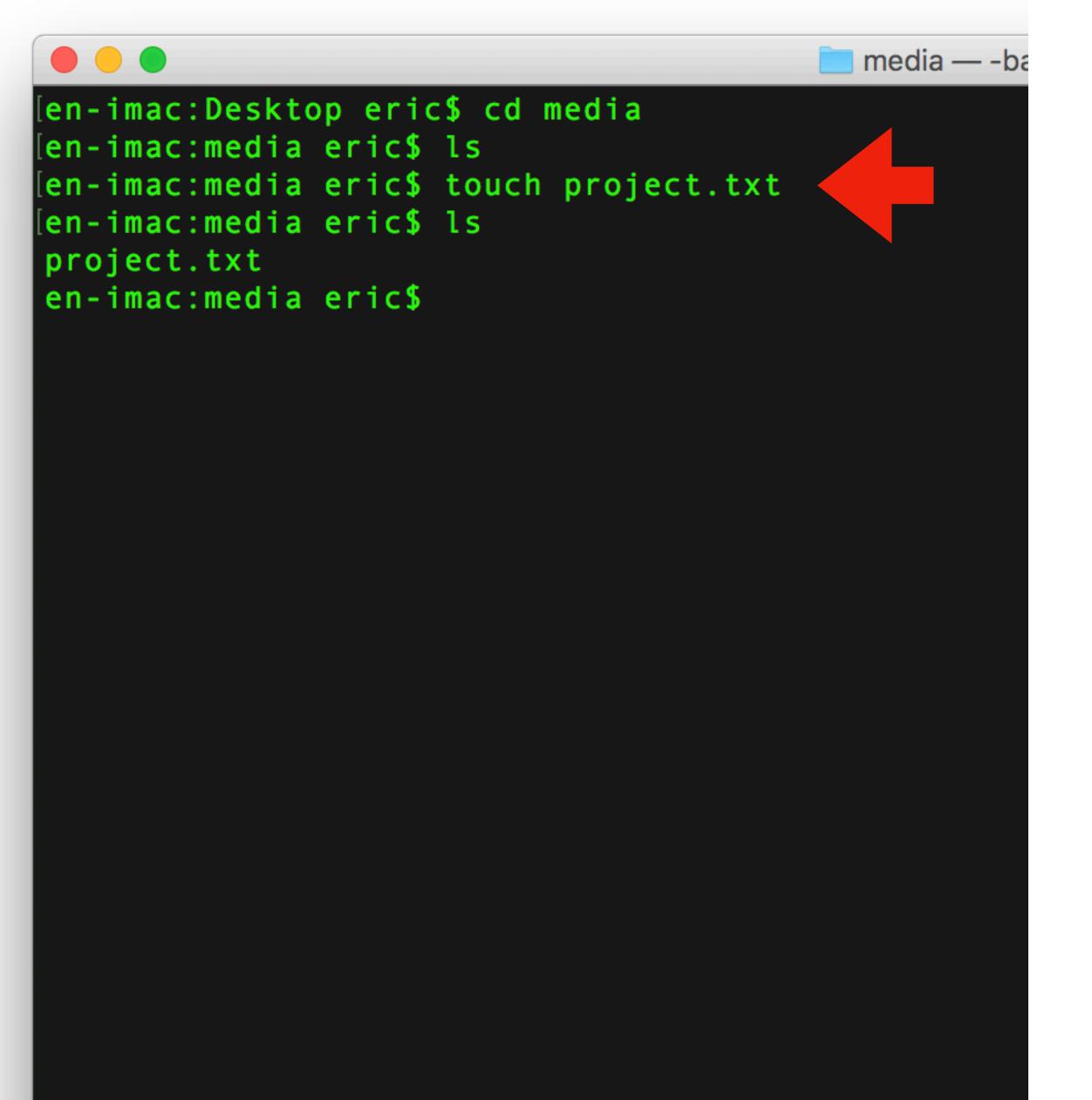
File Manager Graphical Interface



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Applications
                                         FontExplorer X
Creative Cloud Files
                                         Library
Creative Cloud Files (archived) (1)
                                         Movies
                                         Music
Desktop
Documents
                                         Pictures
Downloads
                                         Public
                                         Sites
Dropbox
en-imac:~ eric$ pwd
/Users/eric
en-imac:~ eric$ cd Desktop
en-imac:Desktop eric$ pwd
/Users/eric/Desktop
en-imac:Desktop eric$ mkdir media
en-imac:Desktop eric$ ls
160HKpVE.jpg
ARTS167_Introduction_to_Interactive_Design_2.pdf
Desktop Copy 64.tiff
Group 24.png
Group 26 Copy.png
Group 27.png
PM_19_June.pdf
Pablo-Helguera-Instituto-de-la-telenovela-ES-EN.pdf
Page 22.pdf
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Textos-de-sala-Andy-Warhol-Museo-Jumex.pdf
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lecture #1
media
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Now lets try typing mkdir.

This command stands for "make directory". It takes in a directory name as an argument, and then creates a new directory in the current working directory.



Now lets try typing touch project.txt

This command creates a new file inside the working directory. It takes in a filename as an argument, and then creates an empty file in the current working directory.

pwd

Is

cd

mkdir

touch

pwd outputs the name of the current working directory.

Is lists all files and directories in the working directory.

cd switches you into the directory you specify.

mkdir creates a new directory in the working directory.

touch creates a new file inside the working directory.