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Navigating in UNIX

There are 3 basic commands for navigating the filesystem

Where on earth am I?

pwd

Short for 'present working directory'. This will show you your current location as an absolute (more on what this means below). For example:

/home/anthony/data

What's in my current location?

ls

Short for 'list' this will list the files in the current location. Variations include

- 1s -1 detailed list showing time stamps and permissions
- 1s -la detailed list showing hidden files beginning with '.' such as the .ssh directory
- 1s -1tr detailed list showing the items created most recently at the bottom 'tr' for reverse sort by time

Get me out of here!

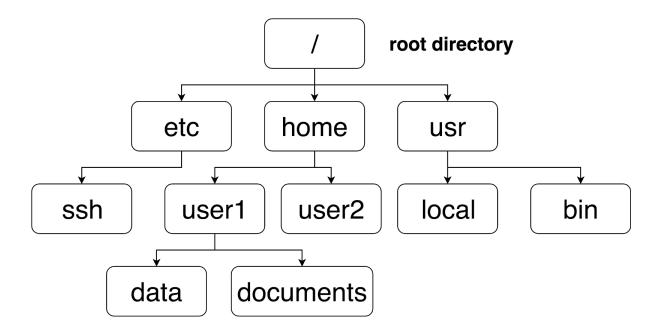
cd

Short for 'change directory' this will change your location to the path specified after the cd command. The path can be either absolute or relative. To explain the difference look at the example file tree shown below.









An absolute path always starts from the root directory which in UNIX is represented by a /

Therefore the absolute path to the data directory of user1 is

/home/user1/data

The absolute path to the bin directory is

/usr/bin

Therefore to change directories to these place **no matter where you are** you can type cd /home/user1/data or cd /usr/bin respectively.

A **relative** path is a location starting from the current working directory and does **not** start with a /. If you need to go back up a directory you type .. which stands for up a level into the parent directory. Therefore if you are in the directory /home/user1

• to navigate to the data directory you would type

cd data

to navigate to user2 directory you would type

cd ../user2

This navigates up a level in the tree to home and then down into user2

If your present working directory is /usr/bin to navigate to the user 1 documents directory you could







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use the absolute path

cd /home/user1/documents

Use the relative path

cd ../../home/user1/documents

back up to usr then to / and then down into home then user and finally documents.

Useful commands

- cd cd on its own will take you straight to your home directory /home/user1 (/Users/user1 on a mac)
- cd This will take you to the directory you were previously in

References

- Comprehensive tutorial
- Cheatsheet