

Relative paths

```
$ pwd # Print working directory
/home/dds
$ mkdir a # Create a directory named a
$ cd a # Move into directory a
$ pwd
/home/dds/a
$ cd .. # Move up one directory level
$ pwd
/home/dds
$ cd .. # Move up another directory level
$ pwd
/home
$ cd ..
$ pwd
/
$ cd home/dds/a # Combine directories into a path
$ pwd
/home/dds/a
$ cd ../../ # Move up two directory levels
$ pwd
/home
$ cd # Go to your home directory
$ pwd
/home/dds
```

Absolute paths

```
$ cd # Move to the home directory
$ pwd
/home/dds
$ cd /tmp # Move to the tmp directory under the root
$ pwd
/tmp
$ cd /home/dds # Move to the home directory by absolute path
$ pwd
/home/dds
$ cd / # Move to the root directory
$ ls
bin    dev    home  lost+found  mnt  proc  run   selinux  sys  usr  vol
boot  etc    lib   media       opt  root  sbin  srv      tmp  var
$ cd usr
$ ls
bin  games  include  lib  local  sbin  share  src
$
```

File manipulation commands

```
$ echo Ken Thompson >ken
$ echo Dennis M. Ritchie >dmr
$ touch a-file
$ ls
a-file  ken  dmr
$ rm a-file # Remove a file
$ ls
ken  dmr
$ mv ken KEN # Change file's name
$ ls
KEN  dmr
$ mkdir names # Create a directory
$ mv KEN names/ # Move file into directory
```

```
$ mv dmr names/DMR # Move and rename file
$ ls names
KEN DMR
$ cp names/KEN . # Copy file to current directory
$ ls
KEN names
$ cat KEN
Ken Thompson
$ mkdir a-directory
$ rmdir a-directory # Remove directory
$
```

Recurse directory hierarchies

```
$ mkdir files
$ touch files/a files/b
$ cp files files2 # Normal cp fails (message can vary)
cp: omitting directory 'files'
$ ls
files
$ cp -r files files2 # Copy a directory with the recursive flag
$ ls files2
a b
$ ls -R # Recursive list of current directory
.:
files files2

./files:
a b

./files2:
a b
$ rmdir files2 # Remove directory fails
rmdir: failed to remove 'files2': Directory not empty
$ rm -rf files2 # Remove non-empty directory with recursive and force flags
$ ls
files
$
```