

# Tutorial Set 3

[3.1 Navigating the Directory Tree](#)

[3.2 More Navigation](#)

[3.3 Creat a Subtree Called 'usr'](#)

## 3.1 Navigating the Directory Tree

1. The directory in which you are working at the current time is called your "working directory". The command to display your working directory is `pwd`, which stands for "print working directory". Give the command to find out the directory path to your current location:  
`pwd`
2. Display the names of the objects in your current directory:  
`ls`
3. Display long listing of the current directory ("`ls -l`", note: not `ones`)  
`ls -l`
4. Change to the parent directory:  
`cd ..`
5. List the contents of the current directory. Note the ownership and group membership.  
`ls -l`
6. Change to the root directory of the Linux file system  
`cd /`
7. Using an absolute path, change to the `mnt` directory  
`cd /mnt`
8. Using a relative path, change to the `etc` directory  
`cd ../etc`
9. Give the following command and note where you end up:  
`cd`
10. Change to `/mnt` directory  
`cd /mnt`

## 3.2 More Navigation

1. Change to your user home directory using an absolute path

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Change to /etc directory  
`cd /etc`

2. Change to your user home directory using a relative path

3. Use the `cd` command to go to the `/usr/bin` directory.

4. Then type  
`cd`

and press Enter. Where are you?

5. Again, use the `cd` command, but this time go to the `/` directory.

6. Type the following command (symbol tilde) and note where you are  
`cd ~`

7. Next, type the following command (symbol dash) and note where you are  
`cd -`

8. Change to a variety of different directories (explore!) and after 2-3 changes, give the `cd` dash command. Repeat this several time from different subdirectories. What does the dash do?

9. Change to `/etc` directory again  
`cd /etc`

10. Now change to your user home directory using the shortcut symbol tilde

### 3.3 Creat a Subtree Called 'usr'

1. Display the names of the objects in your current directory:  
`ls`
2. Make sure you are in the bash shell.  
`bash`
3. Display the names of the objects in your current directory.  
`ls`
4. Confirm that you are in your home directory  
`pwd`
5. Create a subdirectory called `usr`  
`mkdir usr`
6. Change to the new subdirectory `usr` (Is this a relative or absolute pathname?)  
`cd usr`
7. Create a subdirectory called `staff`  
`mkdir staff`
8. Create the following subdirectories  
`mkdir staff/adams staff/joan staff/brian staff/zeke staff/bill reports meetings`
9. Create the following directories  
`mkdir staff/reports/rpt{A,AA,AB,C,3,75} notes{1,2,3,4,5}`
10. Using `cd`, `ls`, and `pwd`, navigate your newly created subdirectory, starting with `usr` as the top of your tree, and draw (on paper) the structure of the subtree.
11. Once you have the drawing completed, explore the `-R` option of the `ls` command. Compare the result to your drawing.