

# Module 1 Cheat Sheet - Introduction to Linux

## Linux terminal tips

- Use **tab completion** to autocomplete pathnames and command names.
- Scroll through your **command history** with the **Up Arrow** and **Down Arrow** keys to find and re-run a command you already used.

## Getting information

Display the reference manual for the `ls` command:

```
1 man ls
```

## Browsing and navigating directories

### Special paths

Symbol	Represents path to
<code>~</code>	home directory
<code>/</code>	root directory
<code>.</code>	present working directory
<code>..</code>	parent of present working directory

List files and directories in the current directory:

```
1 ls
```

List files and directories in a directory:

```
1 ls path_to_directory
```

Return path to present working directory:

```
1 pwd
```

Change the current directory to a subdirectory:

```
1 cd child_directory_name
```

*Tip: Because `cd` looks in the current directory for `child_directory_name`, you don't need to type the entire path.*

Change the current directory:

- Up one level: `cd ../`
- To home: `cd ~` or `cd`
- To some other directory: `cd path_to_directory`

Change the current directory to another one at the same level:

- Suppose you have two sibling directories within the same directory, `dir_1` and `dir_2`, and your present working directory is `dir_1`. To switch to `dir_2`, enter:  
`cd ../dir_2`
- Tip: Using `..`, you don't need to know the path to the parent directory to switch to a sibling.*

Change the current directory back to the directory you were in previously:

```
cd -
```

## Upgrading and installing packages

Fetch and display up-to-date information about all upgradable packages:

```
1 sudo apt update
```

Upgrade to the latest supported version of nano:

```
1 sudo apt upgrade nano
```

Install Vim:

```
1 sudo apt install vim
```

## Creating and editing files

Create a new text file and open it with nano:

```
1 nano file_name.txt
```

*Tip: If the file already exists, nano simply opens it for editing.*

## Authors