



# Module 1 Cheat Sheet - Introduction to Linux

## Linux terminal tips

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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

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Display the reference manual for the `ls` command:

```
1. 1
```

```
1. man ls
```

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## Browsing and navigating directories

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### Special paths

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

List files and directories in the current directory:

```
1. 1
```

```
1. ls
```

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List files and directories in a directory:

```
1. 1
```

```
1. ls path_to_directory
```

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**Return path to present working directory:**

1. 1
1. pwd

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**Change the current directory to a subdirectory:**

1. 1
1. cd child\_directory\_name

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**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

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

1. 1
1. sudo apt update

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**Upgrade to the latest supported version of nano:**

- 1. 1
- 1. sudo apt upgrade nano

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Install Vim:

- 1. 1
- 1. sudo apt install vim

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Creating and editing files

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Create a new text file and open it with nano:

- 1. 1
- 1. nano file\_name.txt

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

Authors

Jeff Grossman

Other Contributors

Rav Ahuja

Change Log

Date (YYYY-MM-DD)	Version	Changed By	Change Description
2023-05-04	1.5	Benny Li	Added text blocks
2023-04-26	1.4	Nick Yi	QA pass
2023-03-30	1.3	Nick Yi	ID review
2023-02-14	1.2	Jeff Grossman	Update to reflect module content
2022-12-19	1.1	Jeff Grossman	Created initial version of the reading

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