
* Quick Guide Linux and Terminal Commands *

For IRAF use

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Linux Terminal Commands

Temporary root command access:

```
sudo <command>
enter [sudo] password
```

Permanent root command access:

```
sudo -s
enter [sudo] password
```

Show place in directory when in terminal:

```
pwd
```

```
example:      <username>@...$ pwd
               <username>@...$ /home/<username>/Desktop //shows
```

Enter into a directory:

```
cd <directory> or cd /<directory>
```

```
example:      <username>@...$ pwd
               <username>@...$ /home
               <username>@...$ cd <user>
```

or

```
<username>@...$ pwd
<username>@...$ /media/iso
<username>@...$ cd /home/<user>/...etc //will take you into /home/user
```

List files in directory:

ls

example:

```
<username>@...$ ls
<username>@...$ <filename> <folder> <filename> ... etc

<username>@...$ ls <first part of file>* //list all files that start what you
typed

<username>@...$ ls *<last part of file> //list all files that end with what
you typed

<username>@...$ ls *<part of file>* //list files that contains what you have
entered
```

Create new directory or folder:

mkdir

```
mkdir /<folder>/<sub-folder>
mkdir <folder name>
```

example:

```
<username>@...$ ls
<username>@...$ folder1 filename1
<username>@...$ mkdir folder2
<username>@...$ folder1 filename1 folder2
<username>@...$ cd folder2
```

To delete a file:

rm

example:

```
<username>@...$ rm <filename>
```

To delete a folder:

rm -rf

example:

```
<username>@...$ rm -rf <folder name or directory name>

<username>@...$ rm -rf /home/...etc
```

vim editor, to create an editor text:

vi

example:

```
<username>@...$ vi <filename>
```

```
~
~
```

:wq //write quit, saves changes into editor

or

:q! //quit without saving

To write in editor:

i

example: editor click **i**

~
~
|
~

To just view an editor or input file(s):

less

example: **<username>@...\$ less <filename>.dat or <filename>.coo or <filename>**

IRAF Terminal Commands

This will only show the commands that IRAF uses only and its difference to Linux terminal commands. Most Linux terminal commands can be used when in IRAF.

To open and close iraf:

cl

To delete files:

del

example: **apphot> del <filename(s)>**

To open ds9 display:

!ds9 &

example: **apphot> !ds9 &**

To display an image on ds9:

disp

example: **apphot> !ds9 &**
apphot> disp <filename>.fits
frame to be written in (1:16) (1): //click enter and images goes to frame 1

images
in ds9

//enter numbers between 2 – 16,
goes to that frame

To list header for .fits files:

```
imhead <filename>.fits //short header  
imhead <filename>.fits lo+ //long header
```

example: **apphot> imhead <filename>.fits lo+**

```
EXTEND =  
ORIGIN = ...etc
```

Working Linux commands: Everything except **rm** and **rm -rf**