



# BASH

## Workshop



## What is BASH?

- Bourne Again Shell
  - Command line interpreter
- Default shell for GNU used by linux, Apple OS X, etc
- Scripting Language



## How to be in this workshop?

- Try commands with me as much as you can
- There would be time for question and doubts
- Type yours answers in chat if any
  - Don't leave anyone behind



# echo

To print text on  
screen

```
echo <text>
```



# ls

## Listing items in a folder

- l Expanded version
- s With number of files
- d Directories

-----



`clear`

Clears the screen



# sudo

super user do

executes commands as super user

Allows access, modification and  
removal of sensitive files

[install]



# Advanced package tool

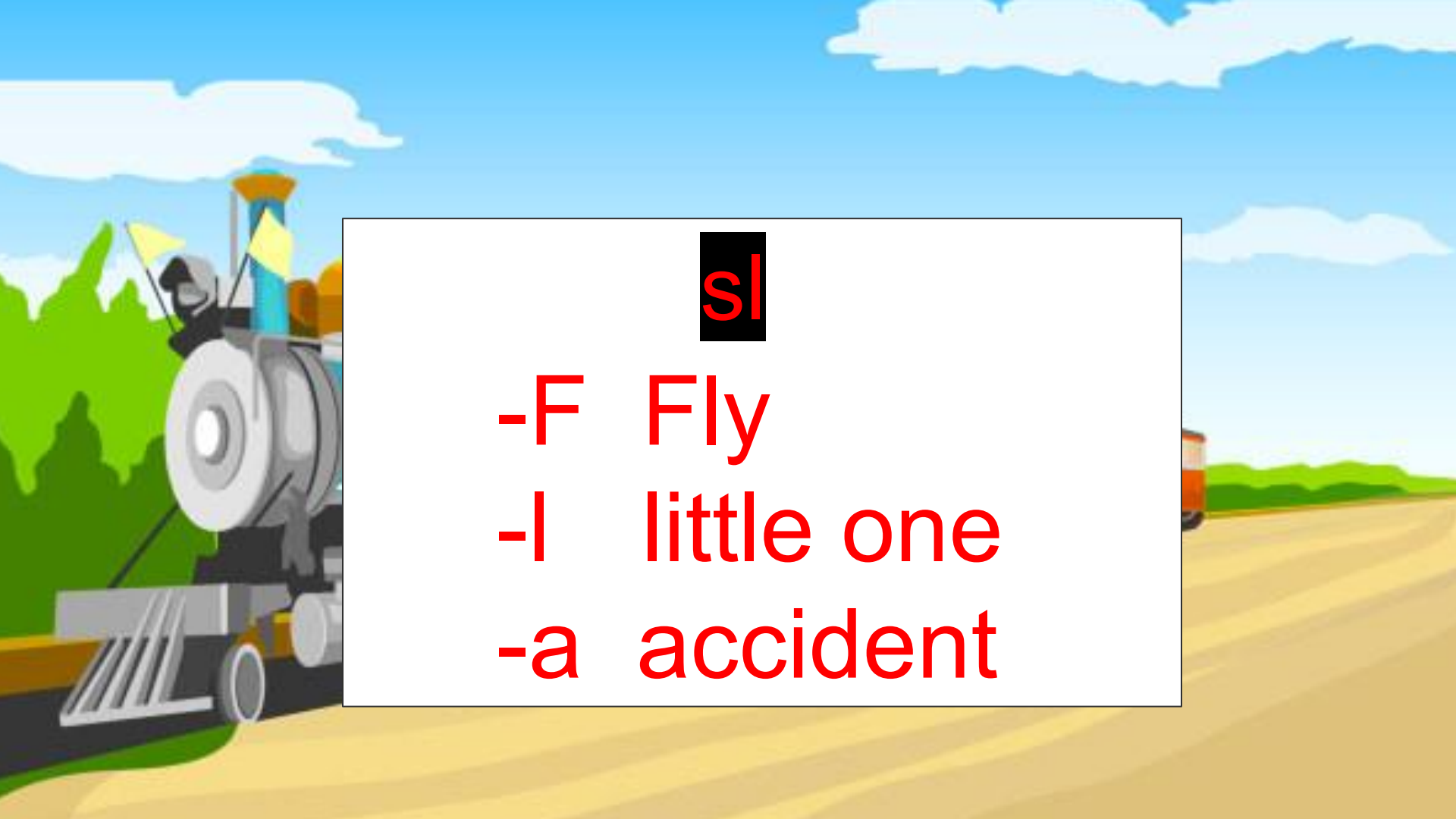
- Free software to handle installation and removal of software
- Used by Debian based softwares





# Installing a package

```
sudo apt <package name>
```



sl

-F Fly

-l little one

-a accident

Any Questions or  
Doubts?

[3 mins break]



# Changing directory

```
cd <folder name>
```

```
cd <folder path>
```

```
-> cd ../ ..
```

```
-> ../ <path>
```



# mkdir

## Make directory

```
mkdir <new directory name>
```

```
mkdir <new directory name> && <new directory name> && ...
```



# rmmdir

## Remove directory

```
rmmdir <new directory name>
```

```
rmmdir <new directory name> && <new directory name> && ...
```



# exit

For exiting current  
space

Mostly for exiting from a server (eg.  
sandcastle) or closing the terminal

-----



**cmatrix**

**-B All bold**

**-m option**

**-C color change**





# Copying files

```
cp [filename] [destination]
```

`-i`      interactive

-----



`pwd`

Present working  
directory

Prints name of current  
directory



# Moving files

```
mv [source path] [destination path]
```

**-i** interactive

[mv vs cp]

Any Questions or  
Doubts?

[3 mins break]



# grep

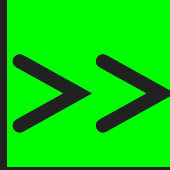
to search text or  
string in a given

```
grep 'word' filename
```

```
-c count the matches
```



cowsay



# Redirection

```
[input dest.] >> [output dest.]
```



# cat

For viewing, creating  
and appending files

<code>cat [filename]</code>	<code>[view]</code>
<code>cat &gt;[filename]</code>	<code>[create]</code>
<code>cat "add" &gt;&gt; [filename]</code>	<code>[append]</code>
<code>cat -n [filename]</code>	<code>[line nos]</code>





# head

Used to print single  
10 lines of the file

```
head [filename]
```



# tail

Used to print last 10  
lines of the file

```
tail [filename]
```



# showfigfonts

```
figlet -f <font name> <text>
```



# Combine commands

Eg:

- `head [fname] >> [new file]`
- `pwd >> [new file]`
- `mkdir [name] && rmdir [name]`



# My own command

You can create your  
own command using  
alias

```
alias <name> = <original commands>
```

Any Questions or  
Doubts?

[3 mins break]