



# Linux Workshop

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# Why Should you Use Linux?




**Open Source**  
Linux is maintained by its community



**Customization**  
Linux is highly adaptable



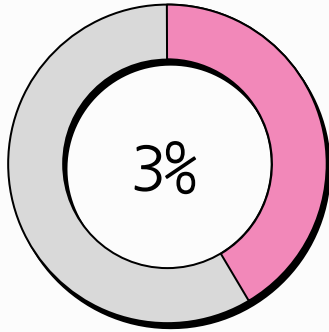
**Reliable**  
Linux is robust and can run for long periods



**Secure**  
Linux is built to prevent malicious software

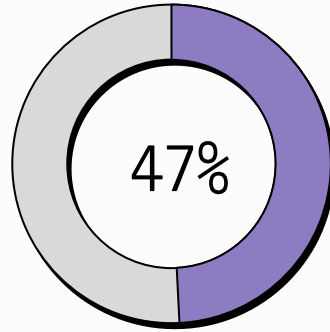


# Linux in the Market



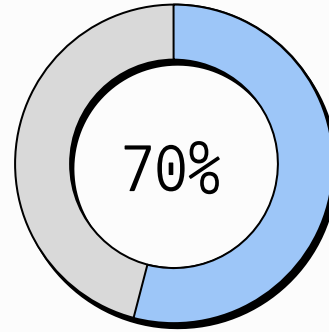
## Globally

Linux only makes up a small portion of general users



## Developers

However developers often prefer linux



## Servers

Linux dominated servers across all use cases



# The Command Line

- The biggest benefit of linux is its tight integration with the command line interface and bash; a scripting language that makes many common developer tasks trivial to achieve.
- While the learning curve is high the benefits of fulling controlling a system and all its actions is invaluable in the fast moving world of software. Let's use the most common command first.
  - *sudo apt-get update*
  - *sudo apt-get upgrade*
  - *clear*



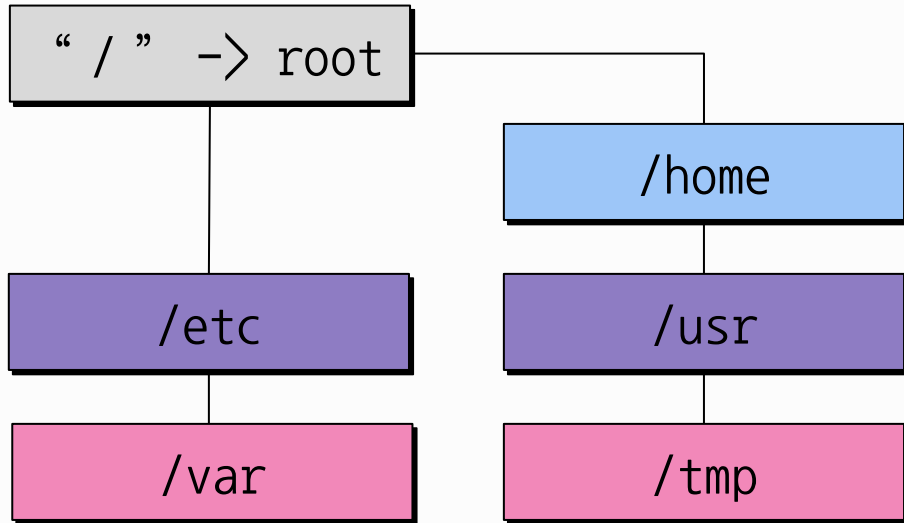
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# The Unique File System of Linux

## Hierarchical

- All folders branch from the root
- All system files and configurations are found in this tree
- Through the command line you can traverse the entire system, even the contents of drives and external storage





# Lets navigate a little

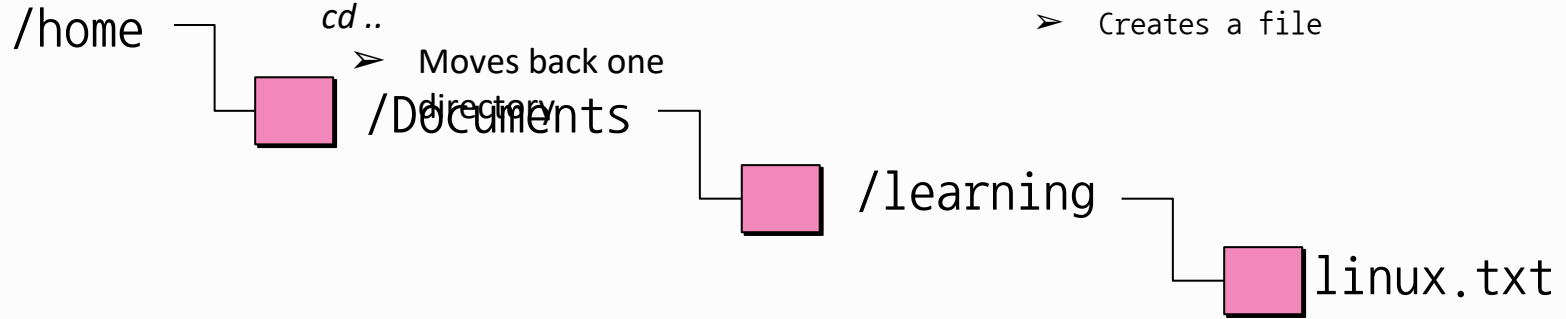
*ls*  
➤ Shows the content of the current directory

*cd*  
➤ Moves to directory

*cd ..*  
➤ Moves back one directory

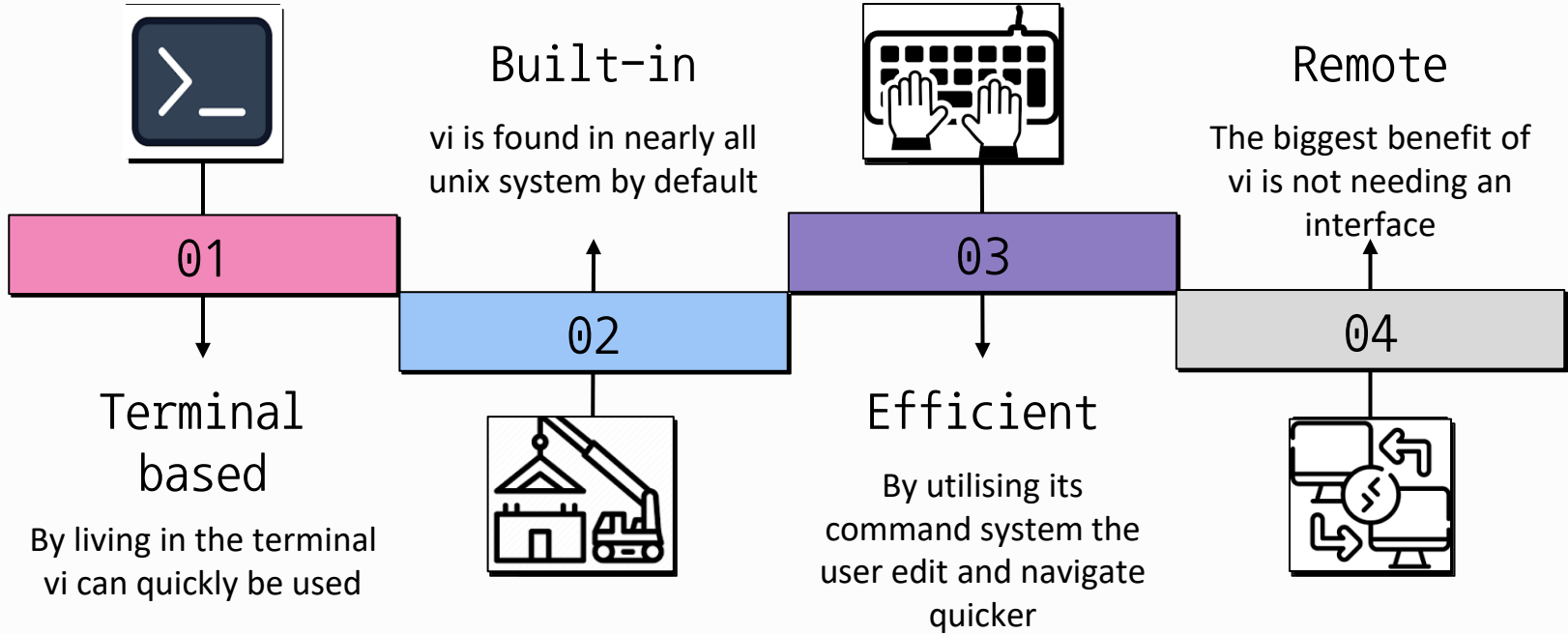
*mkdir*  
➤ Makes a new directory

*touch*  
➤ Creates a file





# Time to talk about vi (vim/neovim)





# Ok, lets edit a file with vi

You can open almost any file this way

01

*vi Linux.txt*

*i*

02

vi uses "commands" through what it calls a normal mode. You can type like normal now.

Using the normal mode, keys take on new uses. *dd* is used to delete an entire

03

*dd*

*:wq*

04

Also in normal mode, when *colon* is press the user enters the command bar where more advanced commands are available. In this case *:wp* saves and closes the file



# Now is a good time to bring up the Man Pages

## Why use these?

It is always available, well documented, and quick to access.

## Use

man vi - open vi documentation

man ssh - opens documentation for ssh

## Navigation

“/” is used to search, functions like ctrl + f

“q” is used to close the page

Arrow-keys to navigate





Any questions?