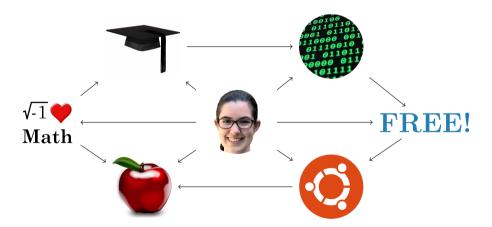


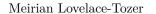
Meirian Lovelace-Tozer

@MeirianLT @ResCom_unimelb >



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Who are you?

In your table group...

- Introduce yourselves;
- Find one thing everyone on your table has in common;
- Introduce the person to your right and tell us one thing you learnt about them.



Introduction

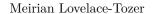
- Introduction,
- Log-in to virtual machine,
- Familiarisation with the Ubuntu desktop,
- The terminal and SUDO commands,
- Installing software,
- Transferring data.



What is Ubuntu?

Introduction

I HAVE FOUND THE PERFECT PHRASE FOR CONDESCENDINGLY DISMISSING ANYTHING: HAVE YOU SEEN THE NEW UBUNTU RELEASE? NAH, I'M NOT REALLY INTO POKÉMON.





- Ubuntu is a FOSS Linux distribution.
- FOSS = Free + Open-Source Software. People are encouraged to voluntarily improve the design of the software.
- Linux is an operating system. It manages all of the hardware resources associated with your desktop or laptop.







- Are you concerned about viruses and malware?
- Do you hate it when your computer is running slow or crashes?
- Are you looking for stability and dependability?
- Do you like free things?



Introduction Motivation

- It's easier for the Administrators to keep secure for you.
- It's what the Administrators use.
- It's powerful, more versatile and inter-operable.
- It's free and the software that runs on it is also free!
- Most research software is written on and for Linux: It's easier to install on Linux, there's better documentation for Linux and it's easier to repair on Linux.



Your virtual machine

vm-172-26-X-Y.managed.cloud.unimelb.edu.au





Scavenger hunt

Find and investigate the following items:

\Box Firefox,

 \square Application finder:

Libre	Office,
Libre	Office,

$$\square$$
 Text editor,

The	date,

 \square Where windows minimize,

 \square The panel.

 \square Settings Manager,

 \square More workspaces,

 \square Terminal emulator,

 \square Your username.

List, help and manual

- 1s list files in the current working directory.
- ls --help
- man ls
- xeyes



Where am I?

Download data-shell.zip: http://go.unimelb.edu.au/bb6r

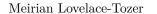
- pwd print the current working directory.
- cd Change directory.
- less view the contents of a text file.
- nano create/edit a text file.
- mkdir make directory.
- cp copy.
- rm -r -i remove a file or directory, with prompts.



rm *

rm *

https://youtu.be/yIz9eqwLt9U





 Virtual machine
 Terminal
 Transferring data
 Other topics
 Thank you

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Challenge

rm *

- Find and read the file called haiku.txt
- Create a new file and write a haiku about lunch.

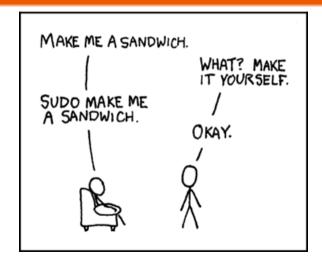


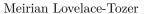
• What's a haiku? Line one has 5 syllables, line two has 7 syllables, and line three has 5 syllables.



tion Virtual machine **Terminal** Transferring data Other topics Thank yo ○○ ○○○○•○○○ ○

Super-User DO







Super-User DO

- sudo = Super-User DO
- apt = Advanced Packaging Tool
- sudo apt update
 - "update the database with the currently accepted latest versions"
- sudo apt upgrade
 "updata all the so
 - "update all the software I have installed to the latest versions"



- sudo apt install cowsay
- sudo apt install sl
- sudo apt install cmatrix
- sudo apt install python3-pip python3-dev r-base



Installing software

Install:

- RStudio
 - Google "ubuntu install rstudio" www.rstudio.com/products/rstudio/download-server
- Jupyter
 - Google "ubuntu install jupyter" www.digitalocean.com/community/tutorials/how-to-set-up-jupyter-notebook-with-python-3-on-ubuntu-18-04



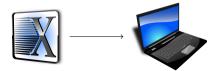


Transferring data

• Local machine to virtual machine.



• Virtual machine to local machine.







Transferring data

Topics worth knowing, but not for today...

- SSH: Secure Shell. The software and protocol used to log into servers. If a server doesn't have a desktop (only command line!)
- Vim: popular and powerful editor.
- The command line is powerful: It took the "full stack" 26min to do something the command line did in 12s.
- adamdrake.com/command-line-tools-can-be-235x-faster-than-your-hadoop-cluster.html



Thanks

Thanks for coming — I hope you enjoyed this training!

- Feedback survey: https://go.unimelb.edu.au/bym6
- Come along to our next Introduction to Ubuntu traininghttps://rescomunimelb.eventbrite.com
- Interested in becoming a leader or presenting? Let me know by contacting me at mlovelaceQunimelb.edu.au or QMeirianLT ©

