


# Introduction to Linux

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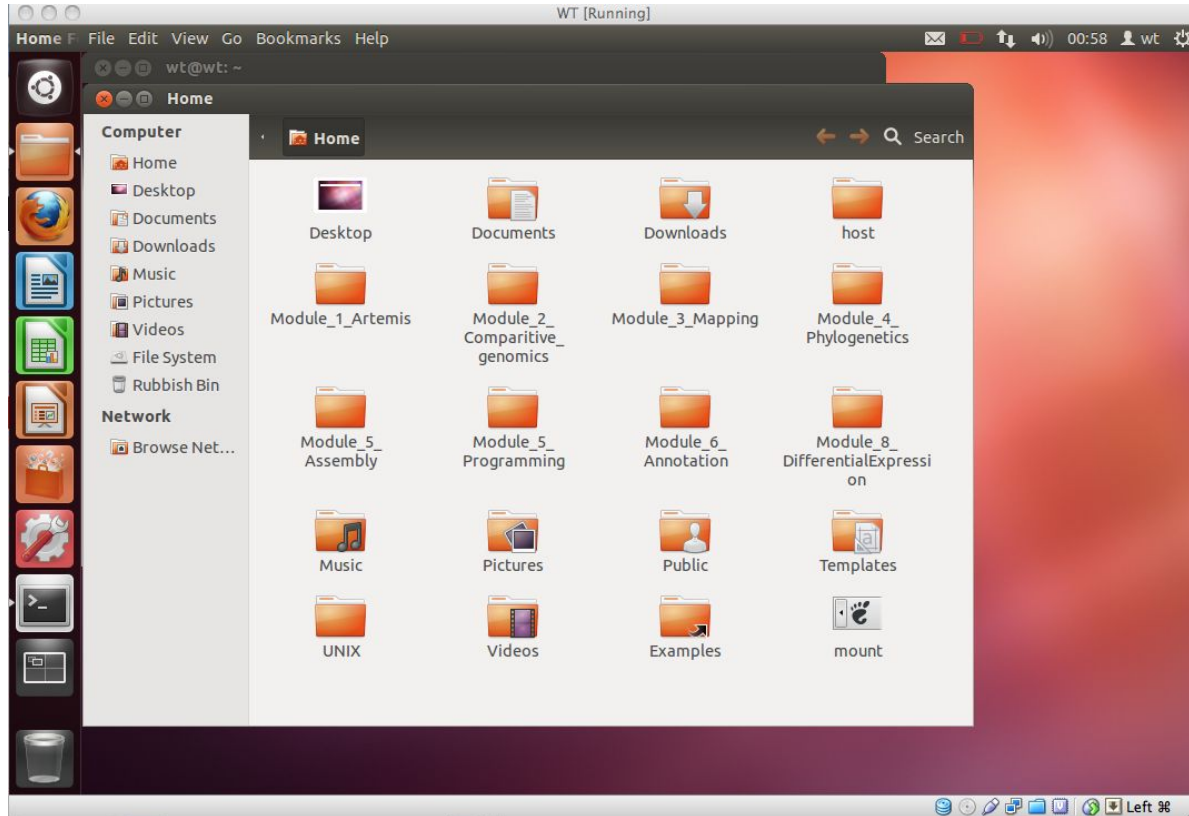
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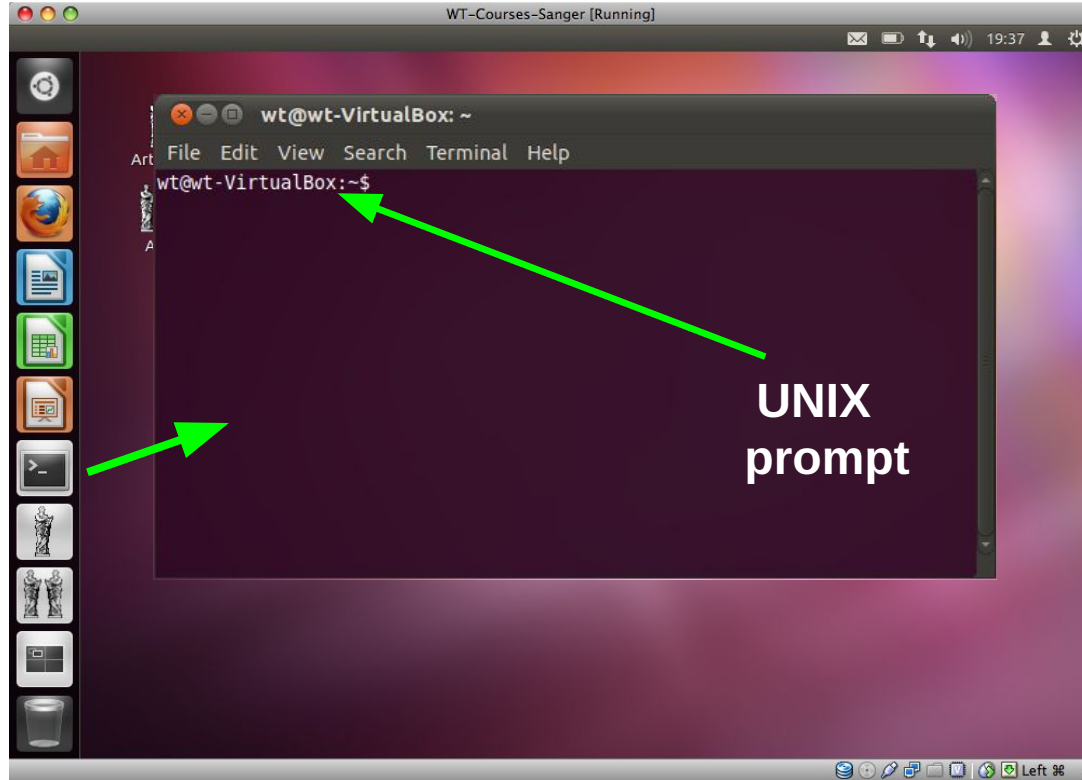
# Unix/Linux

- ▶ What is Unix?
    - ▶ Standard operating system (alternative to MS Windows, Mac OS)
    - ▶ Provides a way for you to interact with the computer
    - ▶ Many 'flavours' of Unix, using Linux
    - ▶ Originally created to provide a free UNIX-like OS for PCs
  - ▶ Why use Unix/Linux?
    - ▶ Output of lots of biological research exists in large text files
    - ▶ Very suitable for working with such files
    - ▶ Powerful and flexible commands for processing large text files
    - ▶ Save you time
    - ▶ Widely used in scientific community
    - ▶ Powerful and stable operating system
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# Using Linux



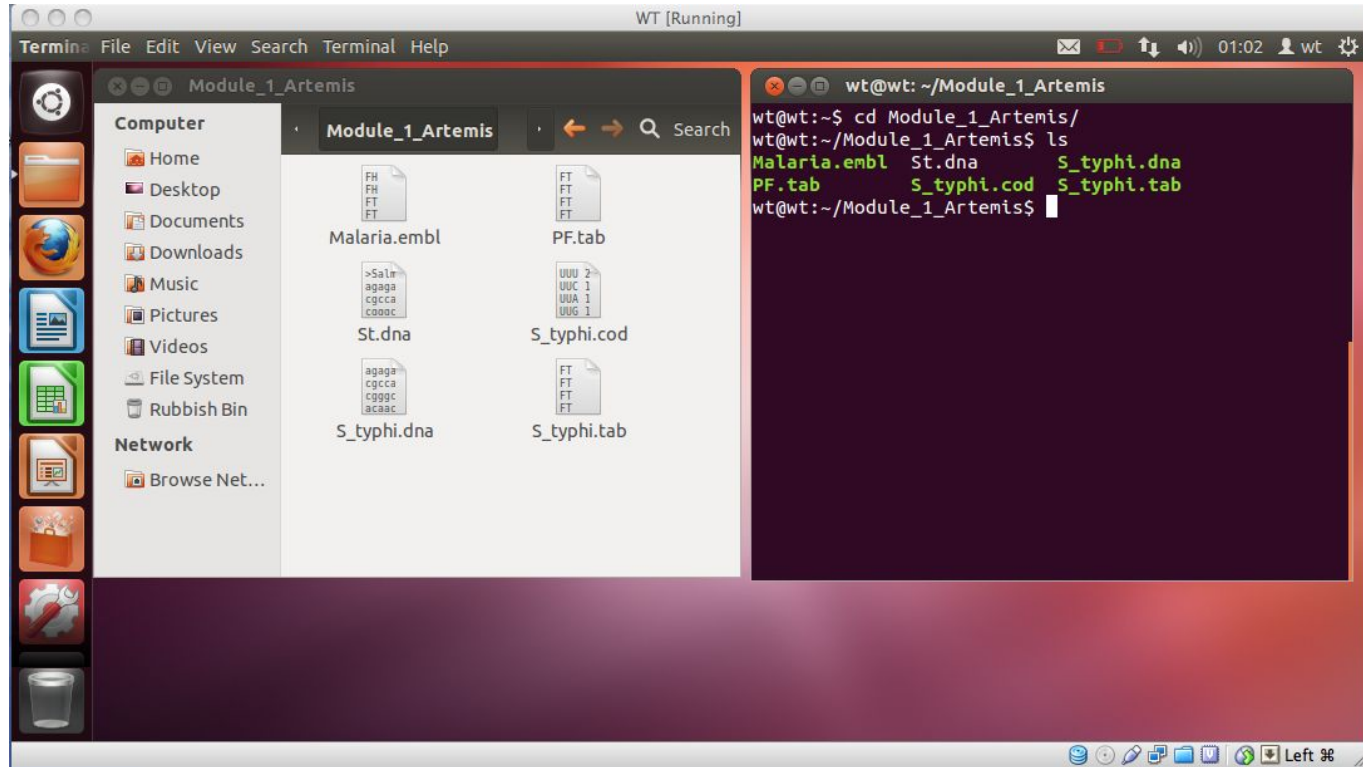
# Terminals and Commandline



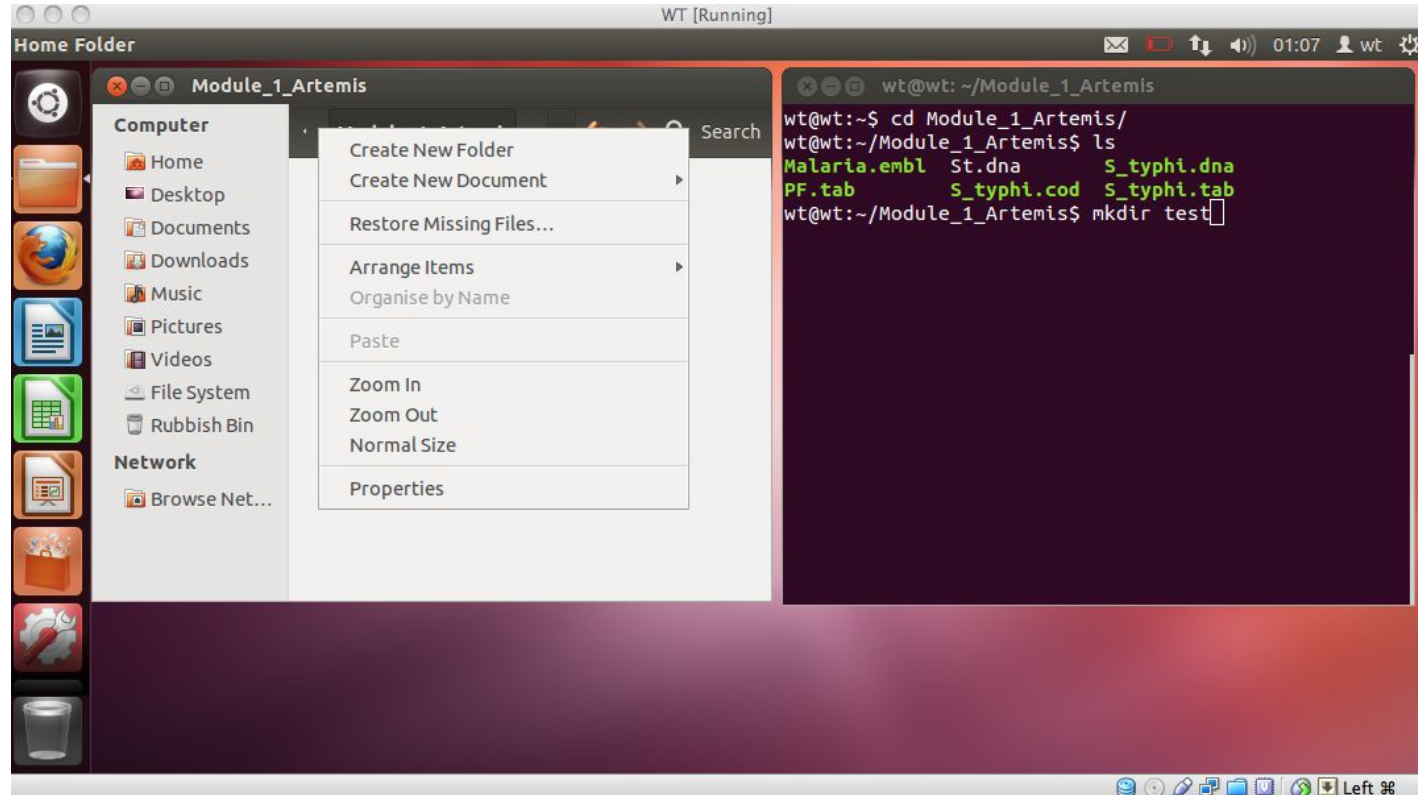
# Linux Commands

Command	What it does
<code>ls</code>	List the contents of the current directory/folder
<code>cd</code>	Changes a directory/folder
<code>mv</code>	Moves a file
<code>cp</code>	Copies a file
<code>rm</code>	Remove a file
<code>less</code>	Displays the contents of a file
<code>head</code>	Displays the first ten lines of a file
<code>tail</code>	Displays the last ten lines of a file
<code>cat</code>	Concatenate files together
<code>pwd</code>	Print working directory
<code>mkdir</code>	Make a new directory

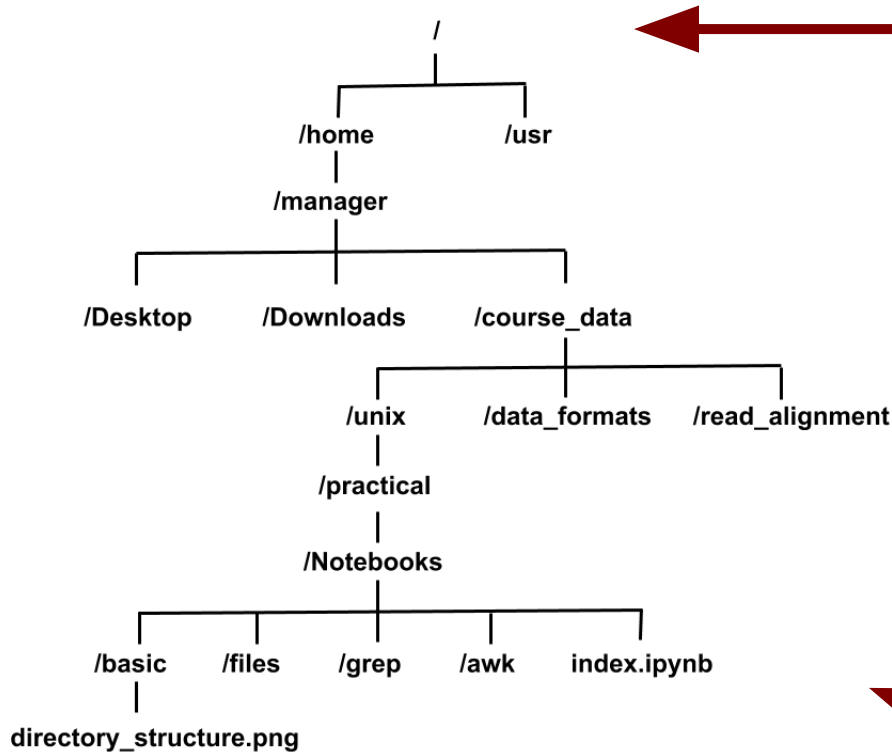
# ls command



# mkdir command



# Directory Structure



`/home/manager/course_data/unix/practical/Notebooks/index.ipynb`



# Linux Tips & Tricks

- ▶ Linux is case sensitive
    - ▶ Typing LS is NOT the same as typing ls
  - ▶ You need to put spaces between
    - ▶ a command
    - ▶ the values passed to the command
  - ▶ **mkdir new\_dir will create a new directory**
    - ▶ **mkdirnew\_dir will just give an error!**
  - ▶ Linux is not psychic! If you misspell the name of command or a file it will not understand you
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# Questions?

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# Practical Exercises

- ▶ Practical exercises are found on the VM (linux.pdf)
- ▶ Multiple sections

Section
Introduction
Basic
Files
<b>grep/awk</b>
Advanced linux
Bash scripting

# Getting Started

