## CA170 Week 1: Intro to Unix

## **The Command-line**

- Text-based interface.
- Type commands with arguments at a "prompt":

```
$ command (arg1) (arg2) ...
```

- You can use this as an adjunct to (rather than replacement of) the GUI interface.
- The "prompt" may be anything, not necessarily "\$". It doesn't matter what the prompt is.
- Note: In notes I often use the convention "\$" to indicate the prompt, no matter what the prompt is
- Can launch GUI programs:

```
$ gedit file &
```

## <u>PATH</u>

• Most commands are not in-built, but are programs, found somewhere in the "PATH" variable:

- This makes the command-line "shell" a reasonably simple program:
- See if there exists in the directories listed in the variable \$PATH an executable file with the same name as the 1st "argument".
- If so, execute this file, passing it the other arguments. Else print error message.
- Note: The complete list of executable files in the path is normally read once and cached in memory for fast access every time a command is typed.

## **Hierarchical Directory Structure**

•	pwd	Print working directory e.g. /users/staff/jsmith
•	cd ls	Change directory List files
•	cd	Go to parent directory e.g /users/staff
•	. / \$HOME \$HOME/public_html /tmp	Current directory root directory home directory public web space system temporary files

- Hierarchical file system /directory/sub-directory/file
- Forward slash (this is why Web is forward slash).