

Weekly Report 3

Summary of presentations

This week, I learned about the variety of **Desktop Environments**(DE) that exist for the Linux Kernel, the **Bash scripting shell**, and commands for managing files through the terminal .

Desktop Environments

A **Desktop Environment** is a **Graphical User Interface**(GUI) designed to make interaction with the computer easier for the user. DEs take inspiration from analog desktops, and many terms are common to their analog counterparts. While there is some standardization to these parts, **User Interface** design tends more towards an art than a science. Many competing DEs exist, each one tailored to different user needs. Some of the common parts of a DE include

- Display Manager
- File Manager
- Icons
- Favorites Bar
- Panels
- Menu

The Bash Shell

The **Bash Scripting Shell** is a **Command Line Interface**(CLI) common to most Linux distros. **Comand Line Interfaces** are a tool for the user to enter commands to an OS without going through a **GUI**. CLI's offer more power and control to users by allowing them to issue specific, direct commands without the need to navigate a complex graphical interface. **Bash** isn't the only **Shell**. Like DE's there are multiple competing environments. Multiple shells include:

- C Shell
- Korn Shell
- Z Shell
- D Shell
- Fish

Useful Bash Shortcuts

Shortcut	Use
Ctrl+C	Terminates the program
!!	Run Last Command
Ctrl+L	Clear the Screen
Ctrl+R	Search History Backwards
Ctrl+G	Exit History Search

Basic Commands And Their Usage

Command	Use
ls	Display all files in the current director
cd "dir"	Navigate to a specified directory
mkdir	Make a new directory
date	Displays the date
uname	Displays information about the system

Managing Software

sudo apt update sudo apt install sudo apt remove sudo apt search

Software Manager Vocab

Package

A **Package** is a prepackaged model of code. In windows packages typically come in the form of executables.

Library

A **Library** is a databse of many packages that are usually shared between programs.

Repository

A **Repository** is a server that hosts packages for download.

How I applied what I learned this week

- I swapped to Mate for the best color.
- I downloaded a sick Totoro image and set it to my desktop

