

# Notes 3

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## echo

- **Definition:**
    - Used for displaying text on the screen.
  - **Usage:**
    - `echo + option + string to print`
  - **Example:**
    - Display/print a line of text
      - `echo "hello world"`
    - Display a line of text with a horizontal tab
      - `1echo -e "\thello world"`
    - Display two lines of text with a single echo command
      - `echo -e "this is line 1\nthis is line2"`
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## date

- **Definition:**
    - Used to print or set the system date and time
  - **Usage:**
    - `data + option`
  - **Example:**
    - Display current date
      - `date`
    - Display current date in rfc 5322 format
      - `date -R`
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## free

- **Definition:**
    - Used to display the amount of free and used memory in the system
  - **Usage:** `free + option`
  - **Example:**
    - Display memory utilization
      - `free`
    - Display memory utilization in human readable format
      - `free -h`
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## uname

- **Definition:**
  - Used to print system information
- **Usage:**

- `uname + option`
  - **Example:**
    - Print all information
      - `uname -a`
    - Print kernel information
      - `uname -s`
    - Print node name
      - `uname -n`
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## history

- **Definition:**
    - Used to show the command line history
  - **Usage:**
    - `history + option`
  - **Example:**
    - Display session history
      - `history`
    - Clear session history
      - `history -c`
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## man

- **Definition:**
    - An interface to the system reference manuals
  - **Usage:**
    - `man + option + command`
  - **Example:**
    - Open the man page of the echo command
      - `man echo`
    - Open a specific man page
      - `man 5 passwd`
    - Show all available man pages
      - `man -f passwd`
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## apt

- **Definition:**
  - A set of tools for managing debian packages
- **Usage:**
  - `sudo (if needed) + apt + apt action + package name`
- **Example:**
  - Update and upgrade
    - `sudo apt update && sudo apt upgrade -y`
  - Install a program

- `sudo apt install firefox`
  - Remove a program
    - `sudo apt install firefox`
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## snap

- **Definition:**
    - Snaps are app packages for desktop, cloud, a IoT that are easy to install, cross platform and dependency free
  - **Usage:**
    - `sudo` (if required) + `snap` + `action` + `package name`
  - **Example:**
    - Find a snap
      - `snap search "video player"`
    - Install a snap
      - `sudo snap install vlc`
    - Remove a snap
      - `sudo snap remove vlc`
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## flatpak

- **Definition:**
  - A next generation technology for packaging, distributing, and managing software in Linux
- **Usage:**
  - `sudo` (if required) + `flatpak` + `action` + `package id`
- **Example:**
  - Search for package
    - `flatpak search "video player"`
  - Install package
    - `flatpak install org.videolan.VLC`
  - Remove flatpak
    - `flatpak remove org.videolan.VLC`
  - Update packages
    - `flatpak update`