GNU / Linux
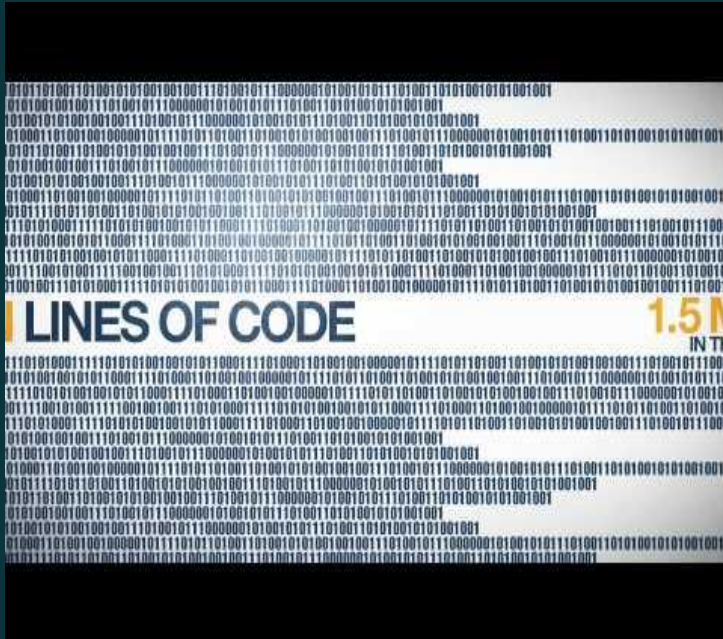
Introduction to GNU/Linux

- **Linux & Free Software Foundation**
  - **GNU** by Richard Stallman in 1984
  - **Linux** by Linus Torvalds in 1991
  - A *free software* is free as *freedom,* not free of *charge*

Introduction to GNU/Linux

- **Why Linux?**

Desktop Tour

- **Popular Distributions - Ubuntu, Mint**

- **Popular Desktops - Gnome, KDE, Unity**

- **Popular Filesystems - ext4, ext3**

- **Popular Tool - Terminal**

Why Terminal?

- **Is it** *FAST***?**

- **Can it run** *graphical applications***?**

- **Is it** *lightweight***?**

- **Can in handle** *several applications***?**

Shell

- **First program** inside terminal

- **Command line** interpreter

- **Support** pipes, control flow, wildcards

- **Far more** *efficient* *than graphical*

- **Can be** scripted

General Commands

- **ls**

- **cd**

- **apropos**

- **man**

- **mkdir**

- **cp**

- **mv**

- **rm**

Text handling & Search

- **cat**

- **less**

- *pipe*

- **grep**

- **find**

- **sed**

User & Permissions

- **whoami**

- **chmod**

- *sudo*

- **chown**

Network

- **ifconfig**

- **ping**

- **ssh**

- **scp**

- **wget**

Monitoring & Utilities

- file
- df
- du
- mount

- free
- tar
- zip
- *export*

Shell Scripting

- **Conditionals & loops**

- **One liners**

- **Executing as a script**

Linux is addictive !

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