INTRODUTION TO LINUX

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PRESENTED BY,

RED HAT



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OVERVIEW

- **What is Linux?**
- **™**History of Linux
- **™**Features Supported Under Linux

WHAT IS LINUX?

- □ Linux is a generic term referring to Unix-like graphical user interface (GUI) based computer operating systems.

BEFORE LINUX

- Apple MAC was better, but expensive
- UNIX was much better, but much, much more expensive. Only for minicomputer for commercial applications
- Reople was looking for a UNIX based system, which is cheaper and can run on PC

GNU PROJECT

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- □ GNU is a recursive acronym for "GNU's Not Unix"
- Aim at developing a complete Unix-like operating system which is free for copying and modification
- Stallman built the first free GNU C Compiler in 1991. But still, an OS was yet to be developed

BEGINNING OF LINUX

- A famous professor Andrew Tanenbaum developed Minix, a simplified version of UNIX that runs on PC
- Minix is for class teaching only. No intention for commercial use

LINUX TODAY

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- Linux has been used for many computing platforms
- Commercial vendors moved in Linux itself to provide freely distributed code. They make their money by compiling up various software and gathering them in a distributable format
- Red Hat, Slackware, etc
- About 29 million people use Linux worldwide

LINUX-FREE SOFTWARE

- Free software, as defined by the FSF (Free Software Foundation), is a "matter of liberty, not price." To qualify as free software by FSF standards, you must be able to:
- Run the program for any purpose you want to, rather than be restricted in what you can use it for.
- Share the program with others.
- Improve the program and release those improvements so that others can use them.

LINUX SOFTWARES

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- Red Hat Linux: One of the original Linux distribution.
- The commercial, nonfree version is
 Red Hat Enterprise Linux, which is
 aimed at big companies using Linux
 servers and desktops in a big way
- □ Debian GNU/Linux : A free software distribution. Popular for use on servers
- □ Gentoo Linux : Gentoo is a specialty distribution meant for programmers





UBUNTU

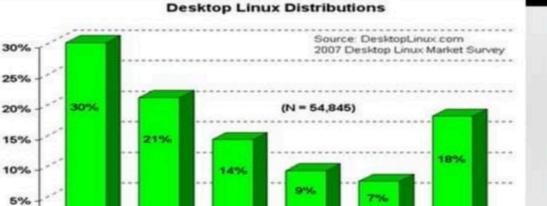
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- Ubuntu is a free Linux distros
- Ubuntu is reliable and stable.



- Ubuntu is the distribution with the biggest software repositories.
- Ubuntu has a good hardware support for most available companies.
- Ubuntu have a lot of variants (Kubuntu, Xubuntu, Edubuntu, Goubuntu, MIDI Ubuntu).

Ubuntu is Widely Used



Gentoo

Other

Fedoral Red Hat

Other Debian

SUSE

Ubuntu

LINUX DESKTOP





MENU PANEL





Applications - The Applications menu contains a variety of icons that start software applications. It is similar to the Microsoft **Windows Start menu**.

Places - The Places menu contains a customizable list of directories, mounted volumes, recent documents, and a Search function. Volumes that are mounted may be external USB drives (flash, hard disk, CD, etc.), directories shared across a network, or other media devices such as a portable music player.

SYSTEM MENU

- **™Log Out**
- **About**
- ∝Help
- CR Lock Screen
- **™**Preferences

- **○OpenOffice.org Writer** is a word processing program
- ○OpenOffice.org Calc is a spreadsheet tool
- Evolution mail client and personal information manager

THE DESKTOP AREA

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- Computer This contains all volumes (or disks) mounted on the computer. These are also listed in the Places menu. Computer is equivalent to My Computer on Microsoft Windows.
- Home This is where the logged-in user stores all files by default, such as music, movies, and documents. There is a different home directory for each user, and by default users cannot access each others' home directories. Home is equivalent to My Documents on Microsoft Windows.
- Trash Deleted files are moved to Trash. Empty Trash by right-clicking the icon and clicking Empty Trash

START HERE



Start Here

PROGRAM WINDOW

















APPLICATION WINDOW

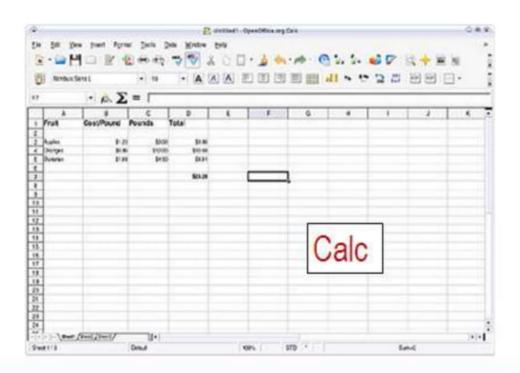


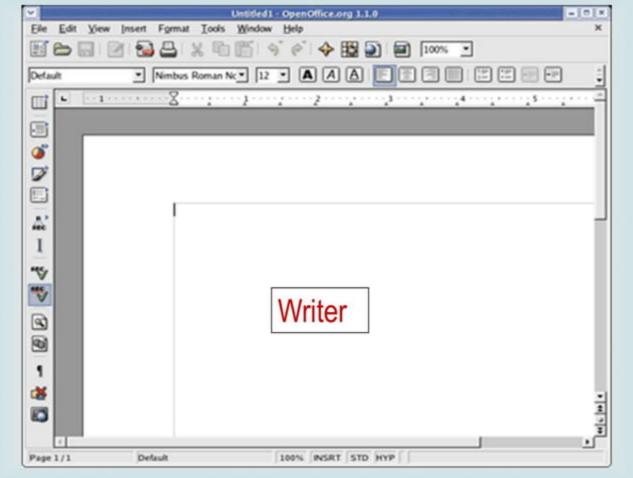
CONTROL CENTRE



OFFICE SOFTWARE

- **∝**Spreadsheet
- **™**Presentation
- **™**Database application





WEB BROWSER

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∞Firefox



Penonsized from el Sign in



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Google.ca offered in: Français

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OTHER SOFTWARES

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- System), which is used to play digital sound files
- **CD Player**: The default CD player
- **Sound Juicer CD Ripper**: Burn your own CDs
- Messaging Client: GAIM supports AIM, MSN, ICQ, and many other popular IM networks
- **∞gFTP**: Useful for grabbing files through FTP (File Transfer Protocol)

WHY LINUX?

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™Powerful

- Runs on multiple hardware platforms
- Users like its speed and stability

calt's "free"

- □ Licensed under GPL
- Vendors are distributors who package Linux

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™Multi-user

A multi-user operating system allows for multiple users to use the same computer at the same time and/or different times.

™Multiprocessing

An operating system capable of supporting and utilizing more than one computer processor

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™Multitasking

An operating system that is capable of allowing multiple software processes to run at the same time

™Multithreading

○ Operating systems that allow different parts of a software program to run concurrently.

Open Source Software

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People improve it, people adapt it, people fix bugs. And this can happen at a speed that, compared to conventional software development, seems astonishing



Linux Provide Security



- As there is a limited access
- Of user to basic files and folders, in Linux network it provide security to user's privacy. Without disclosing the secured data Linux acts as a efficient server

Linux is Virus Free!!



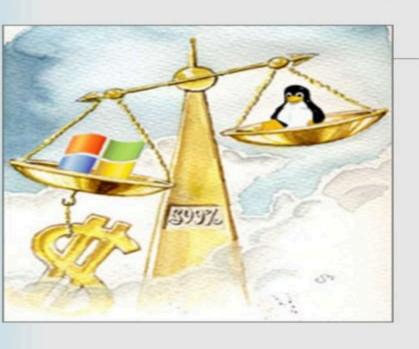
Linux is "virus-free" in that there are essentially no viruses for Linux in the wild, although research viruses certainly do exist.

Linux Vs Windows





Linux is Cheaper



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- By Upgrading
- Linux upgrades faster than Windows

™Compatibility

Linux is Backward Compatible unlike Windows

ADVANTAGES OF LINUX

- Linux systems are extremely stable
- CR Linux is Free
- No threat of viruses
- Callinux comes with most of the required software preinstalled
- Update all your software with minimum fuss
- □ Linux never gets slow
- □ Linux does not need defragmentation
- Linux can even run on oldest hardware
- Adding more software is a matter of a few clicks
- Most Windows-only apps have their either their native version or alternatives for Linux
- With Linux, you get the highest degree of possible customizability

