



Desktop Environment

`instigate-training-center.am`

Agenda

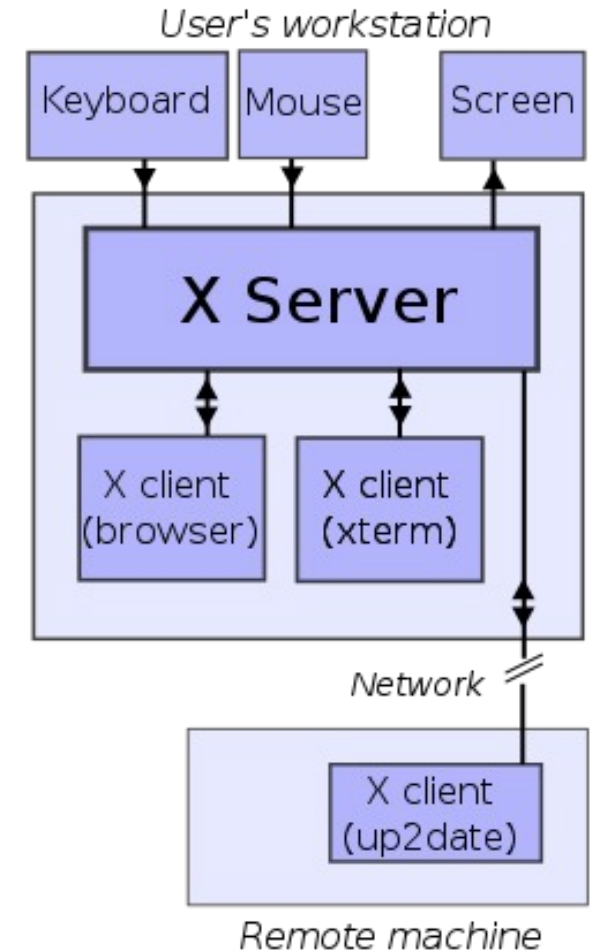
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Introduction

- A desktop environment is a collection of software designed to give functionality and a certain look and feel to an operating system
- A fundamental part of a DE is the window manager or WM
- Another important element of a DE is the file manager
- A desktop environment typically consists of icons, windows, toolbars, folders, wallpapers, shortcuts, desktop widgets and panels
- A window manager is system software that controls the placement and appearance of windows within a windowing system in a graphical user interface

X Window System

- X Window System is a computer software system and network protocol that provides a graphical user interface (GUI) for networked computer
- X provides the basic framework, or primitives, for building such GUI environments: drawing and moving windows on the screen and interacting with a mouse and/or keyboard



Window Managers

Name	Capability/size	Language	Type
Kwin (KDE)	Heavyweight	C++ (Qt)	Compositing
Metacity (GNOME)	Heavyweight	C, C++ (GTK+)	Compositing or Stacking
Compiz	Heavyweight	C (OpenGL)	Compositing
Xfwm (Xfce)	Middleweight	C, C++ (GTK+)	Compositing
Enlightenment	Middleweight	C	Stacking

Desktop Environments

Name	Gnome	KDE	Xfce	Enlightenment
Main objective	Creating an attractive desktop environment using a graphical design that can be used by everyone		Lightweight. Well designed, clearly presented for productivity. Go faster while conserving resources	Advanced graphical libraries, tools and environments
Toolkit Used	GTK+	Qt	GTK+	ETK (provided by EFL)
Size (base system, X installed)	~180 MB	~210 MB	~15 MB	DR16: ~3 MB DR17: ~15MB



Default programs packaged

Name	Gnome	KDE	Xfce	Enlightenment
File manager	Nautilus	Konqueror Dolphin	Thunar	EFM, Entropy
Terminal emulator	GNOME terminal	Konsole	Terminal	Enterminus
Text editor	gedit	Kate KWrite	Mousepad	Eyesight
Video player	Totem	Kaffeine Dragon Player	Xfmedia	Enna Eclair
Audio player	Rhythmbox	Juk Amarok	Xfmedia	Emphasis
Image viewer	Eye of GNOME	Gwenview	Ristretto	Exhibit
PDF viewer	Evince	KPDF Okular	-	Epdf

Window management shortcuts

- **Alt+F1** – Open the Applications Menu
- **Alt+F2** – Display the Run Application Dialog
- **Ctrl+Alt+Arrow** – Switch the workspace to the specified direction of the current workspace
- **Shift+Ctrl+Alt+Arrow** – Move the window to another workspace in the specified direction
- **Ctrl+Alt+D** – Minimize all windows
- **Alt+Tab** – Switch between windows
- **Alt+Spacebar** – Open the window menu
- **Alt+F7** – Move the currently focused window
- **Alt+F4** – Close the currently focused window