

# How A Linux Desktop Works



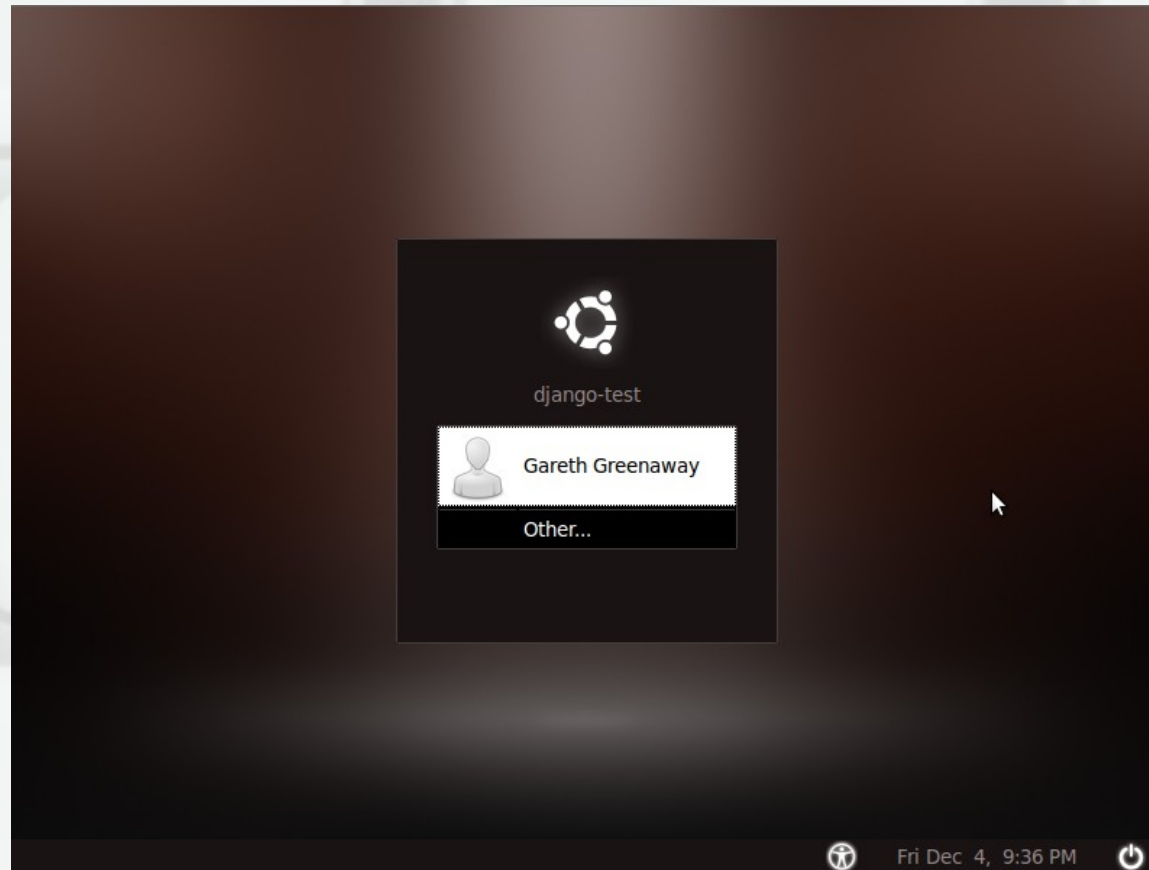


**Linux Uses X (X Windowing System)**

# What is X?

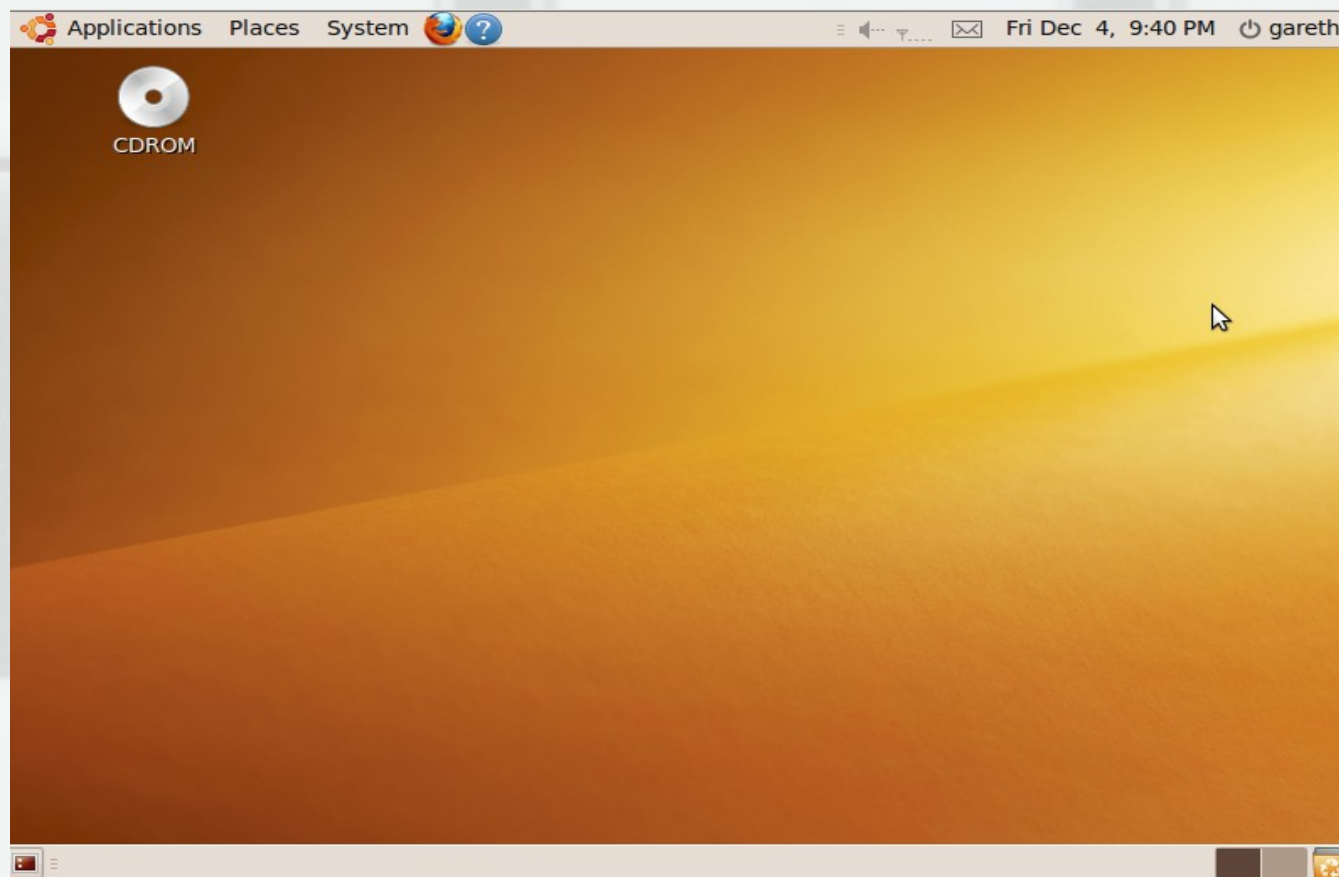
- The X Window System (commonly X or X11) is a computer software system and network protocol that provides a graphical user interface (GUI) for networked computers, and was initially developed as part of Project Athena.
- X features network transparency: the machine where an application program (the client application) runs can differ from the user's local machine (the display server).
- X originated at MIT in 1984. The current protocol version, X11, appeared in September 1987. The X.Org Foundation leads the X project, with the current reference implementation, X.Org Server, available as free and open source software under the MIT License and similar permissive licenses.
- More: [http://en.wikipedia.org/wiki/X\\_Window\\_System](http://en.wikipedia.org/wiki/X_Window_System)

# Familiar Site





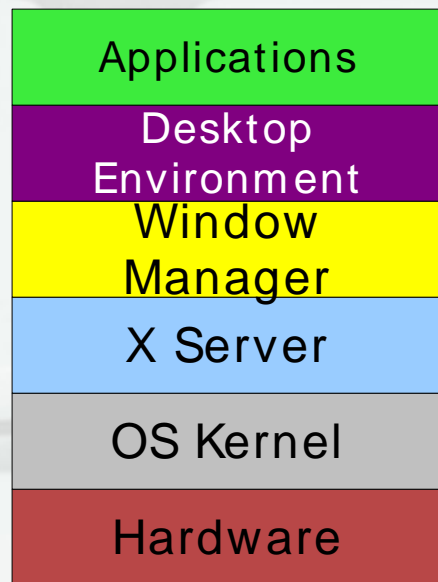
# GNOME





**How It Fits Together**

# Typical Layers of X



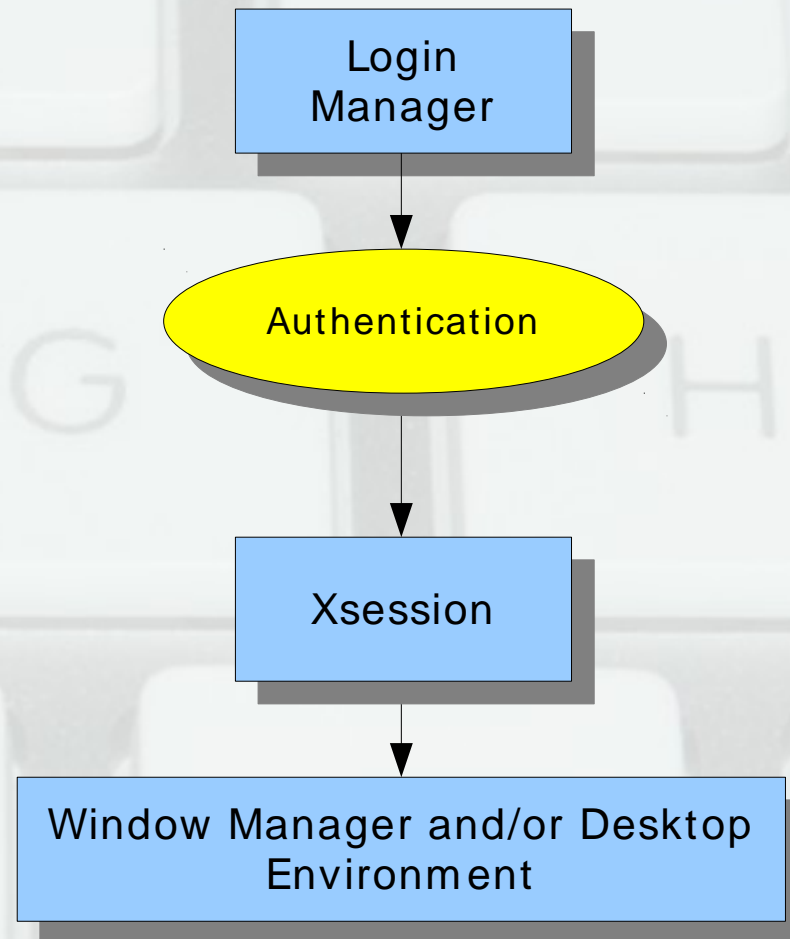
Evilwm

A desktop environment is a collection of icons, toolbars, applications and desktop widgets.

Win

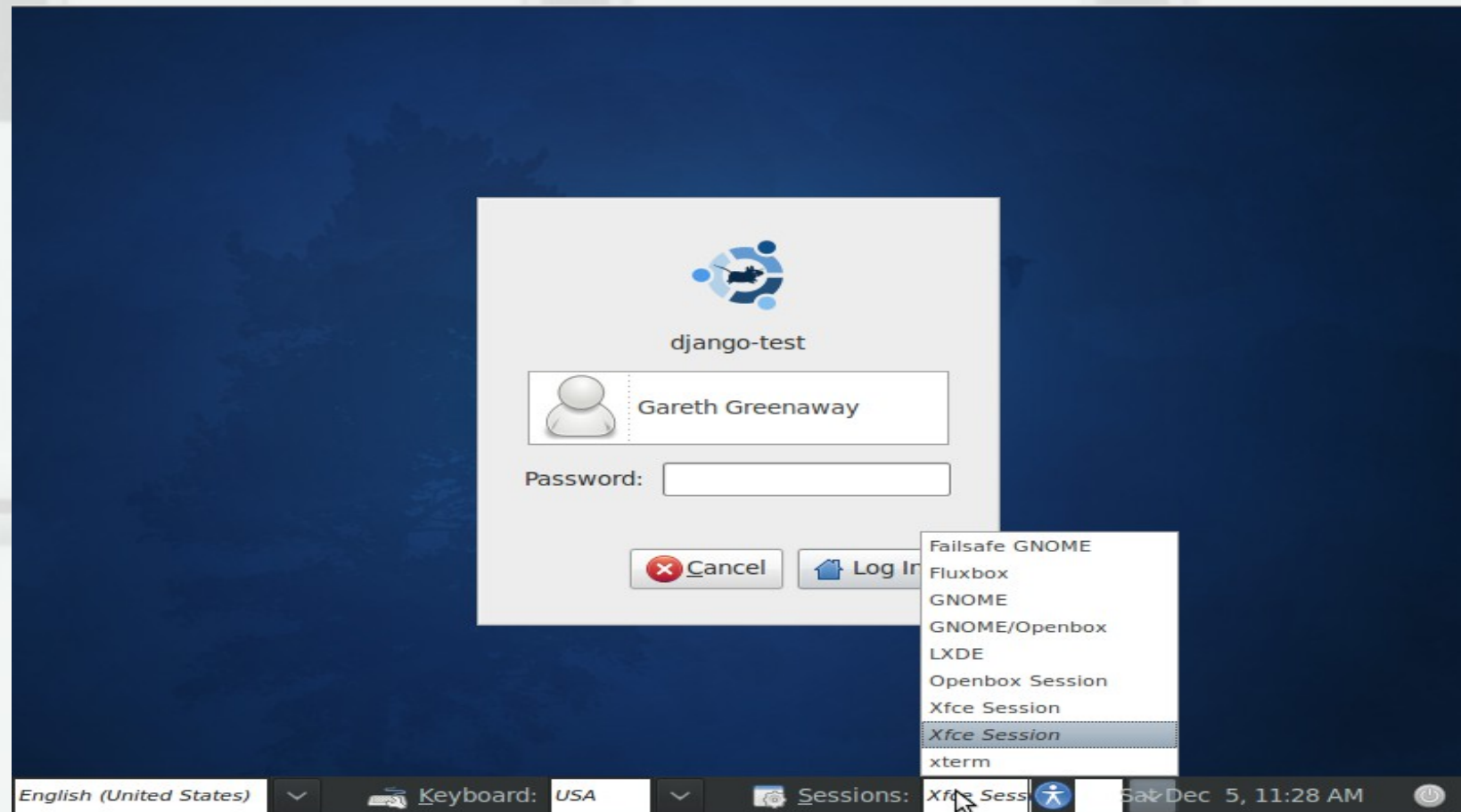
Many, Many  
More...

# Using A Login Manager





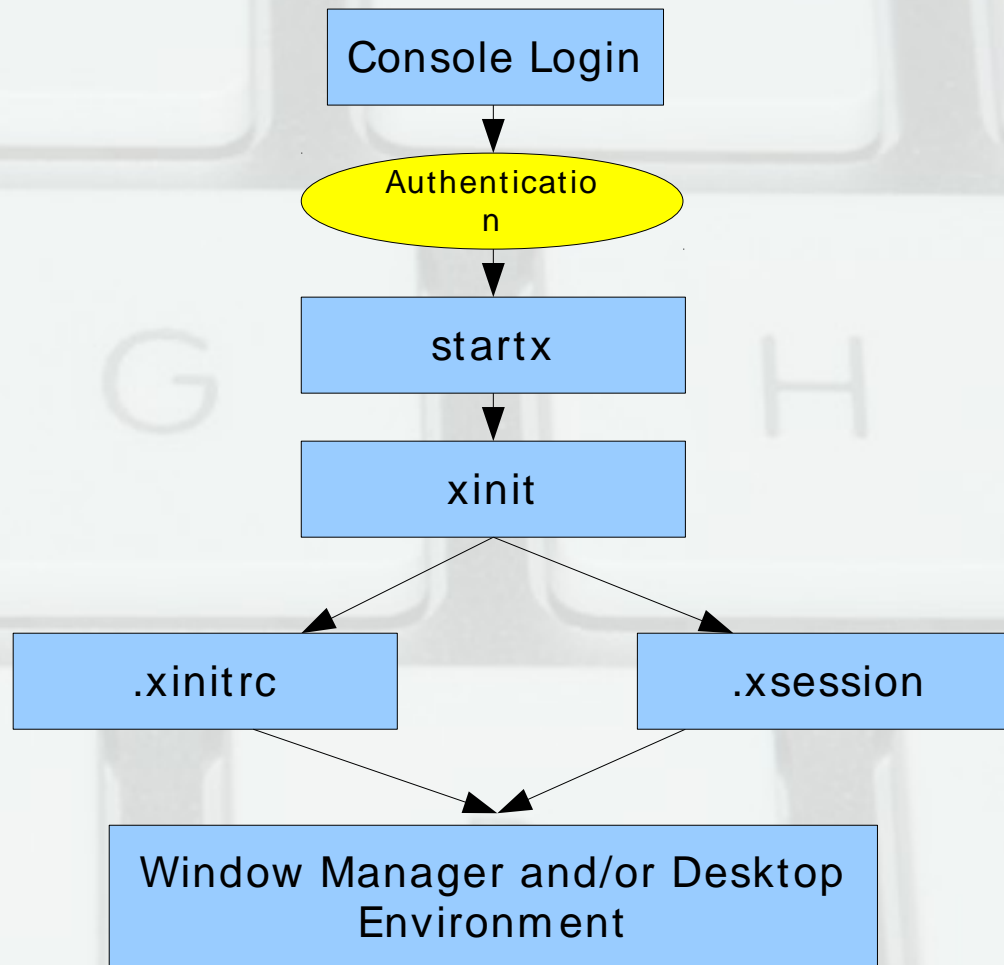
# Choosing Session



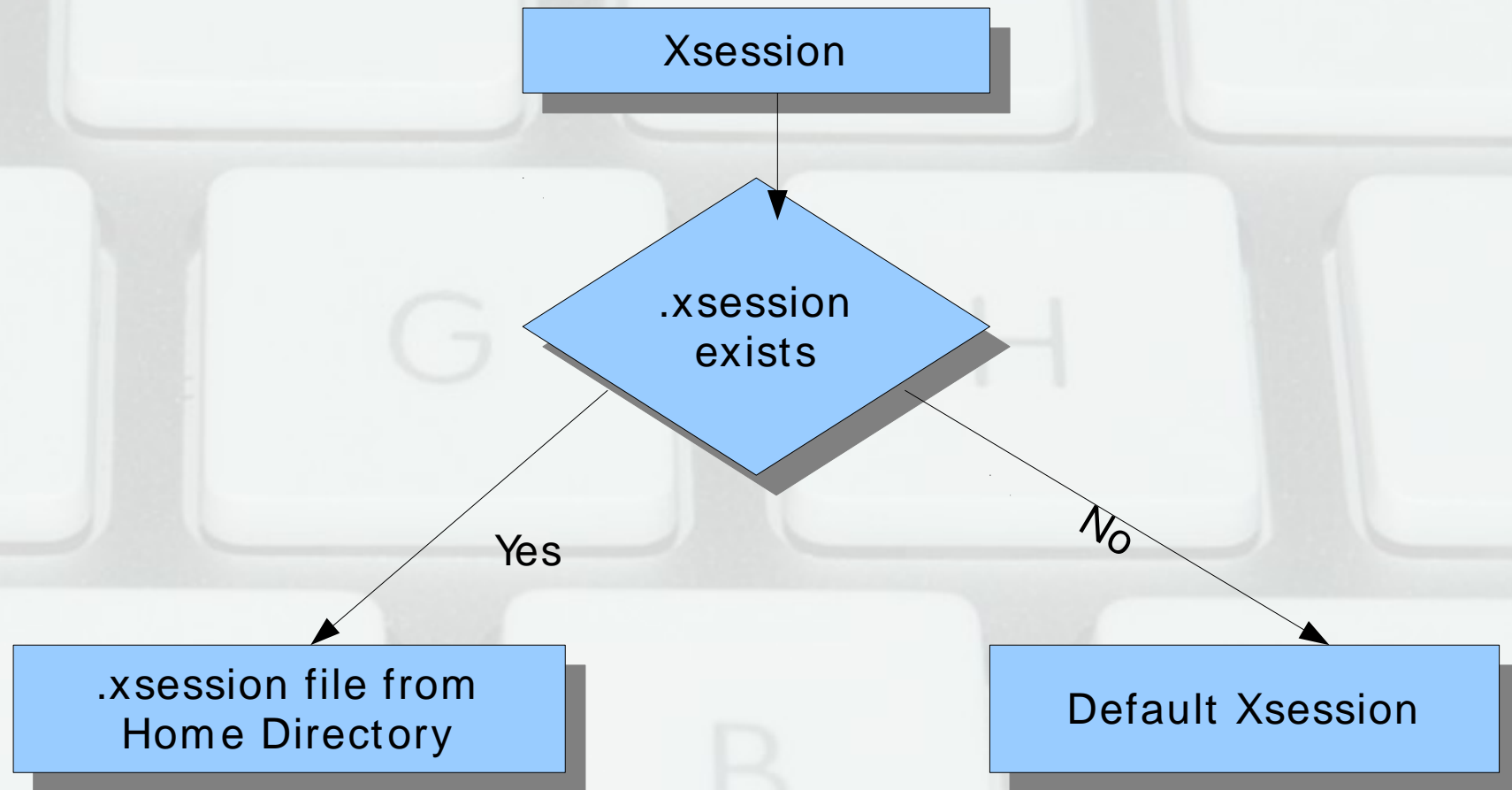
`.xsession`

`xterm &  
startxfce4`

# Using “startx”



# How Xsession works





# **Exciting Stuff**

## **Remote Applications**

### **Remote Desktop Access**