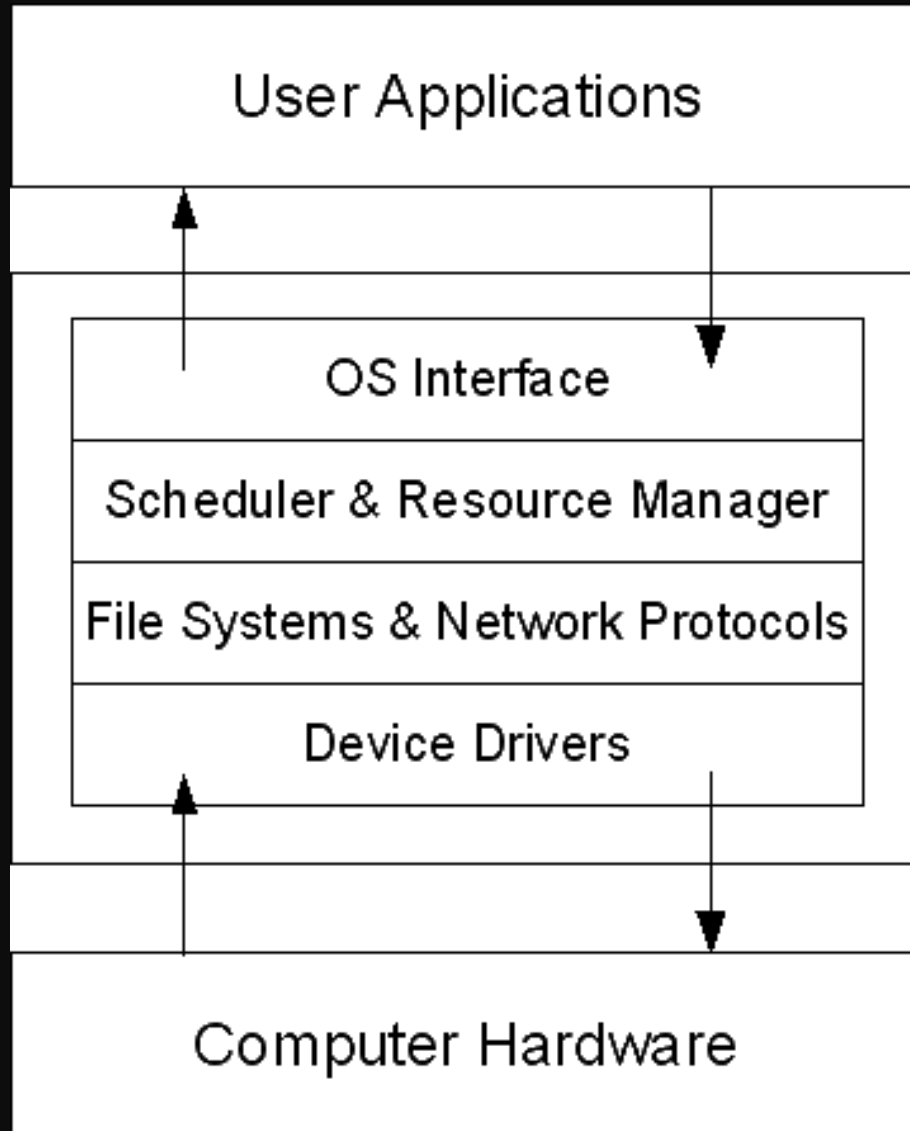


$\Delta I \Phi$

Lesson 04:

Software

# Operating Systems



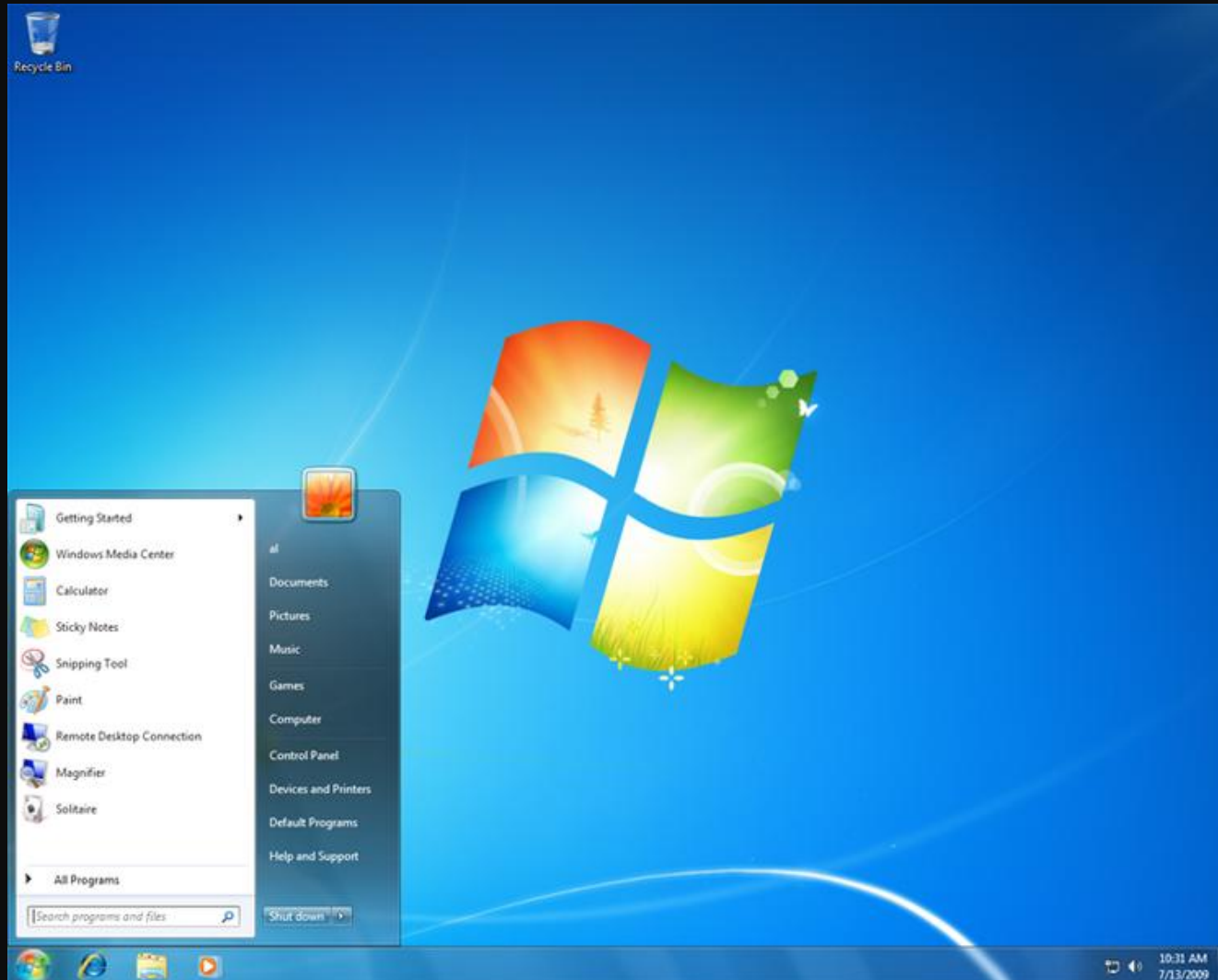
# Operating System Functions

- Hardware Management
- Networking
- Application/Machine Interface
- Graphical User Interface (GUI)
- Basic Applications (Text Editing, Calculator, Account Management, Accessories)

# Operating Systems: DOS

- Click on “Start>Accessories>Command Prompt”
- Type “dir”, this will give you a list of the directory contents
- Type “cd c:\”, this will take you to the root directory.
- You can copy, paste, and perform batch actions using this interface too.
- Type “exit” to close the window.

# Operating Systems: Windows



Microsoft Windows 7

# Operating Systems: Windows

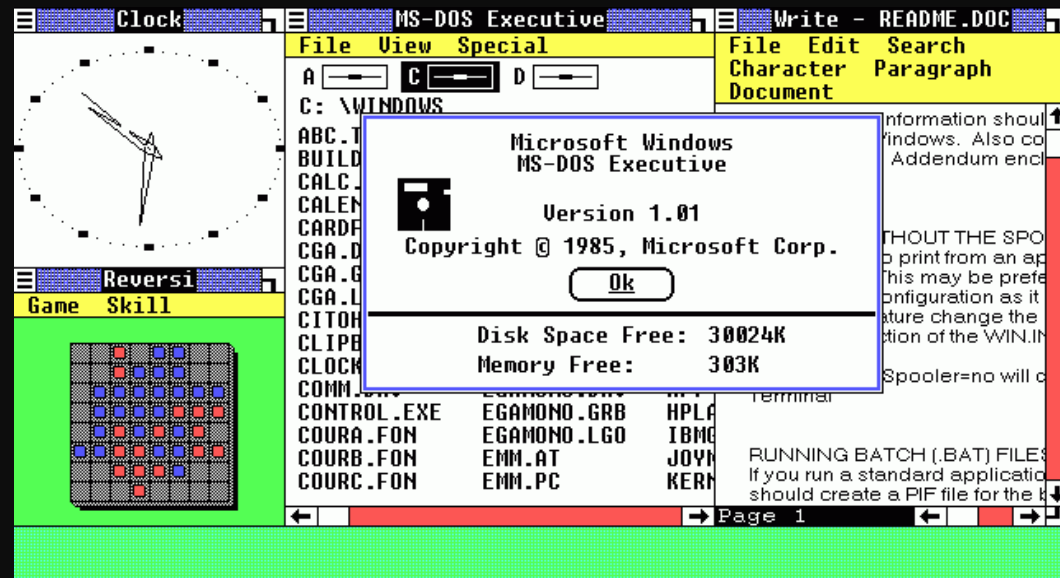
## Windows 1 - 3.x (1985 - 1994)

- Windows 95 (1995)
- Windows 98 (1998)
- Windows ME (2000)

## Windows NT (1993 - 1996)

- Windows XP (2001)
- Windows Vista (2005)
- Windows 7 (2009)
- Windows 8 (20??)
- Windows Server 2000 - 2008 (1993 - 2008)

## Windows Mobile



# Operating Systems: Macintosh



Mac Snow Leopard OS

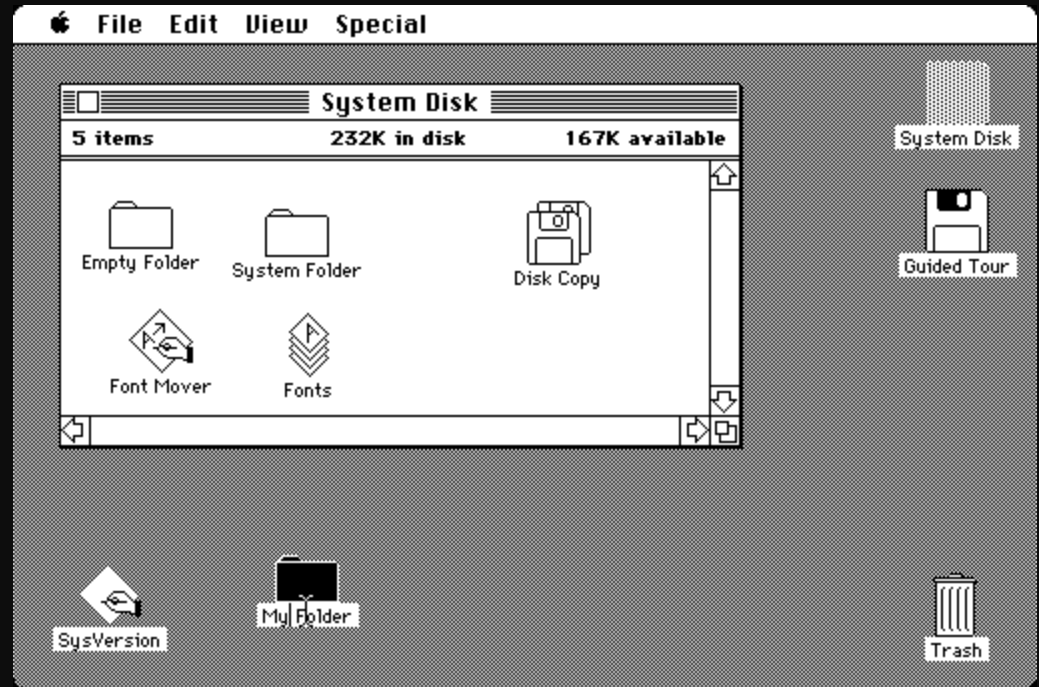
# Operating Systems: Macintosh

## Mac System Software

- Versions 0.1 – 6.0.8L (1984 - 1992)

## OS X

- Hera (1999)
- Kodiak (2000)
- Cheetah (2001)
- Puma (2001)
- Jaguar (2002)
- Panther (2003)
- Tiger (2005)
- Leopard (2005)
- Snow Leopard (2008)

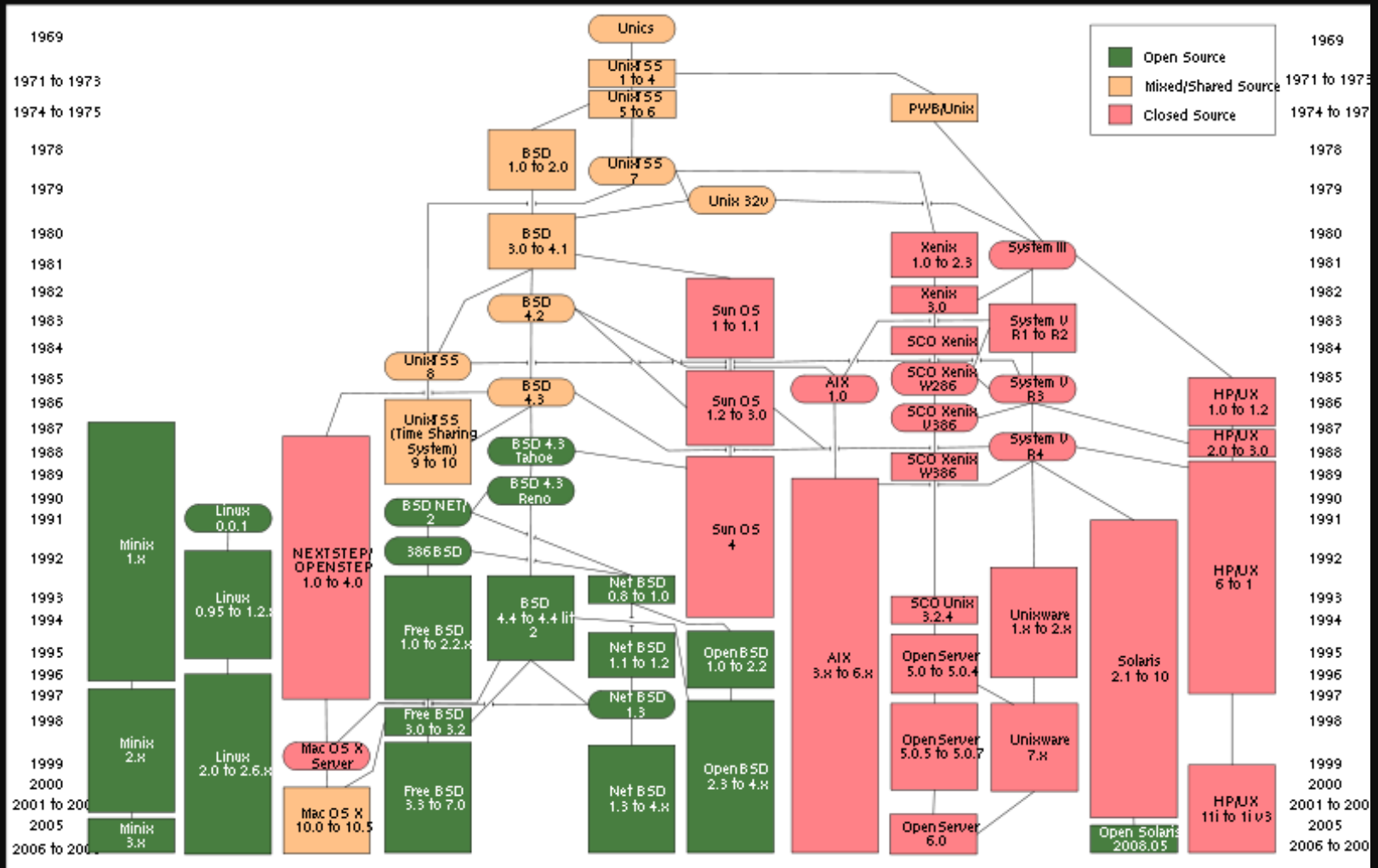


# Other Operating Systems



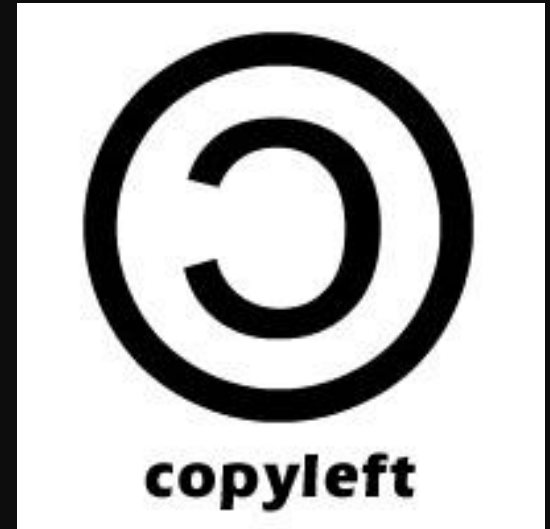
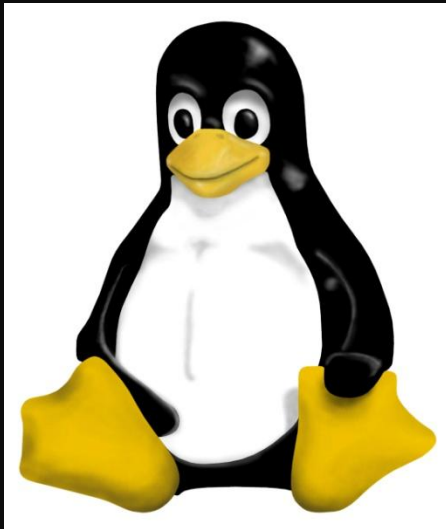
Why Haven't You Seen This Commercial?

# Operating Systems: Unix



Unix Family Tree

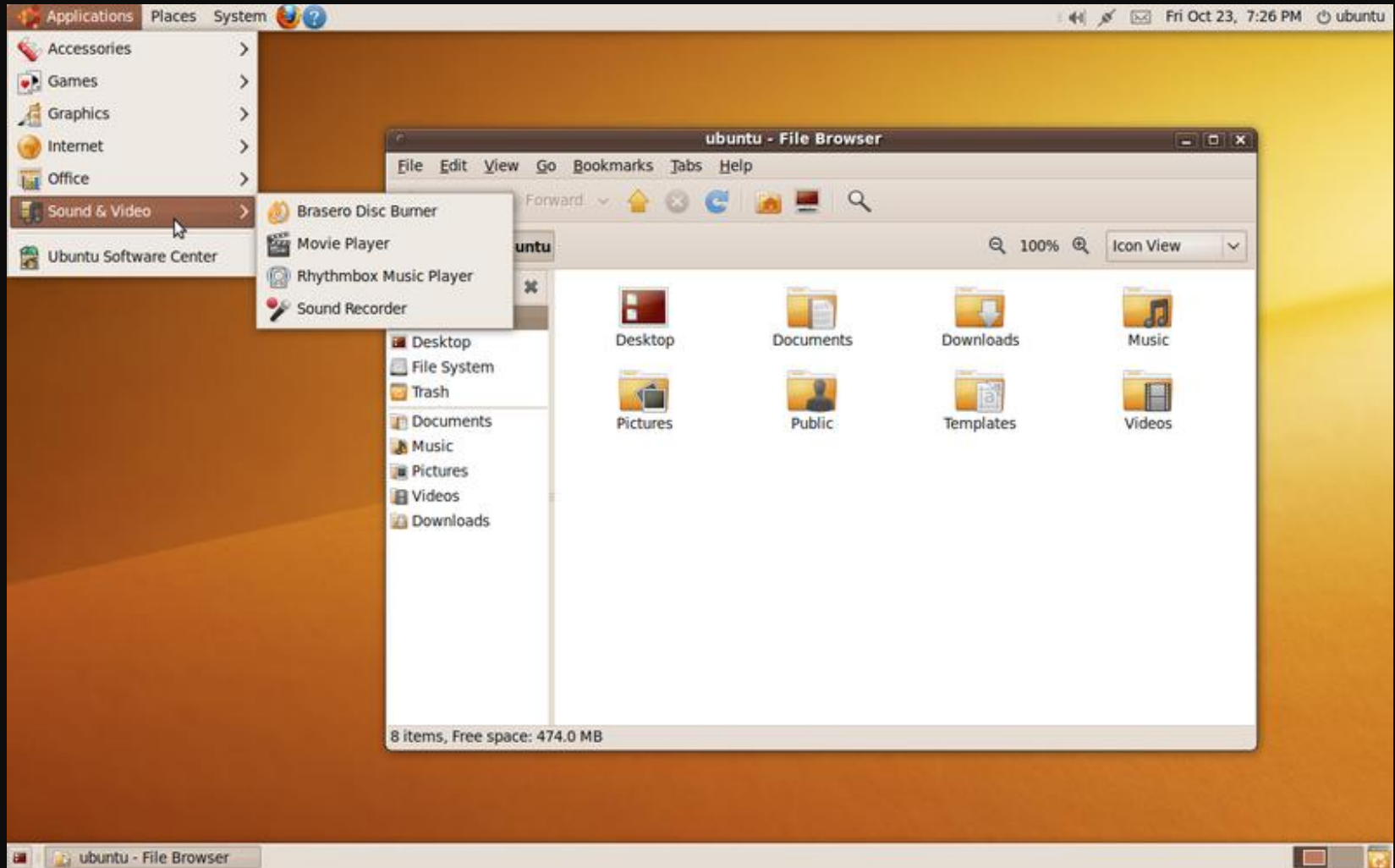
# Operating Systems: GNU/Linux



***Free as in Freedom***

GNU stands for "GNU's Not Unix"

# Operating Systems: Ubuntu



Ubuntu 9.10 (Karmic Koala)

# Ubuntu Philosophy

African in Origin

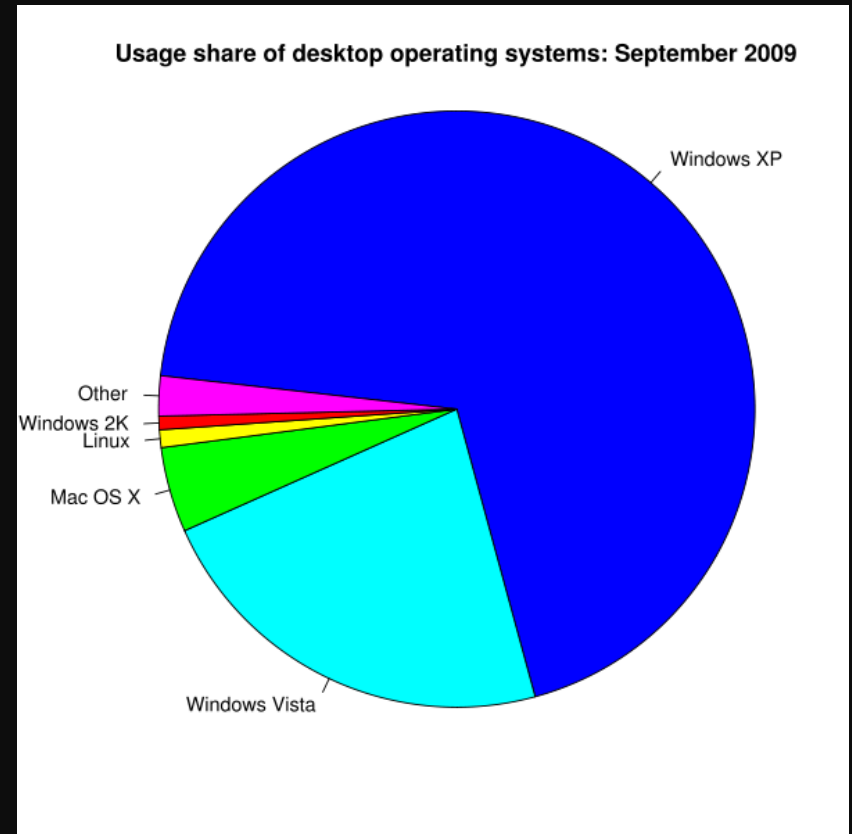
*“...the essence of being human. Ubuntu speaks particularly about the fact that you can’t exist as a human being in isolation. It speaks about our interconnectedness. You can’t be human all by yourself, and when you have this quality—Ubuntu—you are known for your generosity.*

- Archbishop Desmond Tutu

I am, because you are.

# Proprietary Versus Open Source Operating Systems

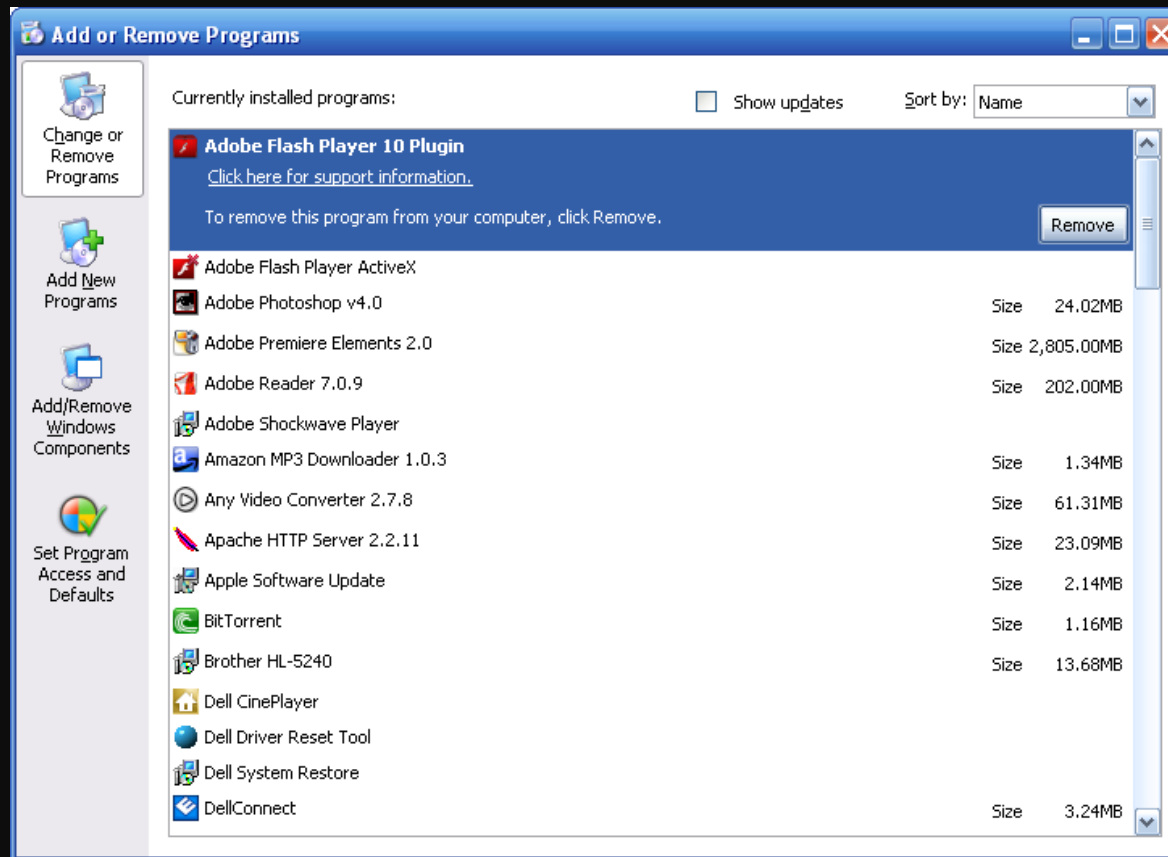
| Proprietary  | Open Source  |
|--|--|
| Commercially Backed Support (Technical Support Lines, Online Documentation). | Community Backed Support (Forums, Online Documentation). |
| More User Friendly.  | Less Virus Prone, more secure.                           |
| More Widely Used.  | Usually Free to Obtain.                                  |
| More Compatible with other products.   | Highly Customizable.                                     |



# Additional Software

# Other Software: Installed Programs

- Start>Control Panel>Add/Remove Programs



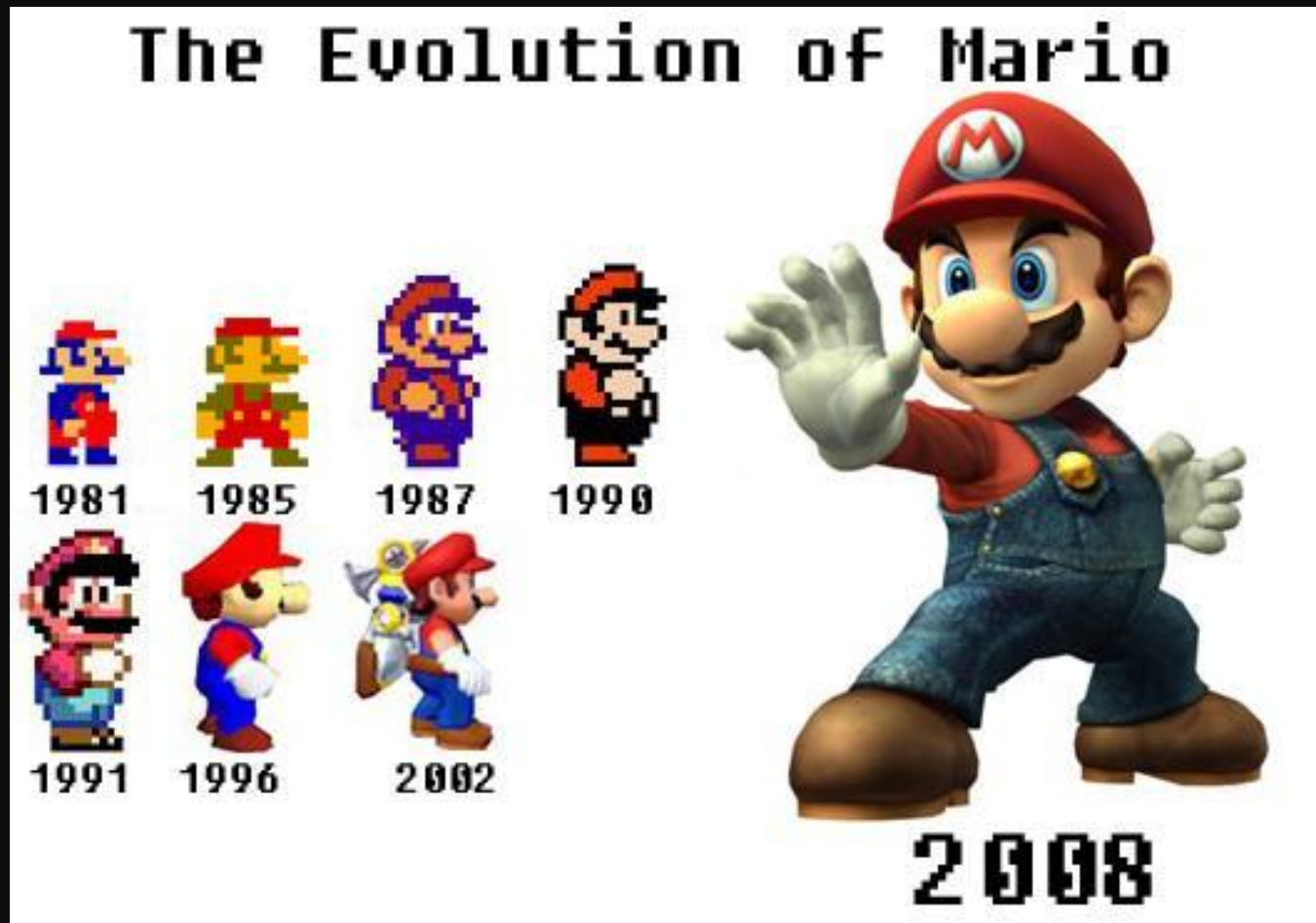
There Might Be Things in This List Not Listed Elsewhere

# Other Software: File Types

- **Documents:** PDF, DOC, ODP, TXT, PPT
- **Images:** JPG, GIF, PSD, BMP
- **Executables:** EXE
- **Sound:** MP3, WAV, MID
- **Video:** WMV, AVI, MOV
- **Data:** MDB, XSL, XML, DB
- **Web Scripts:** ASP, PHP, JS, CFM
- **System:** DLL

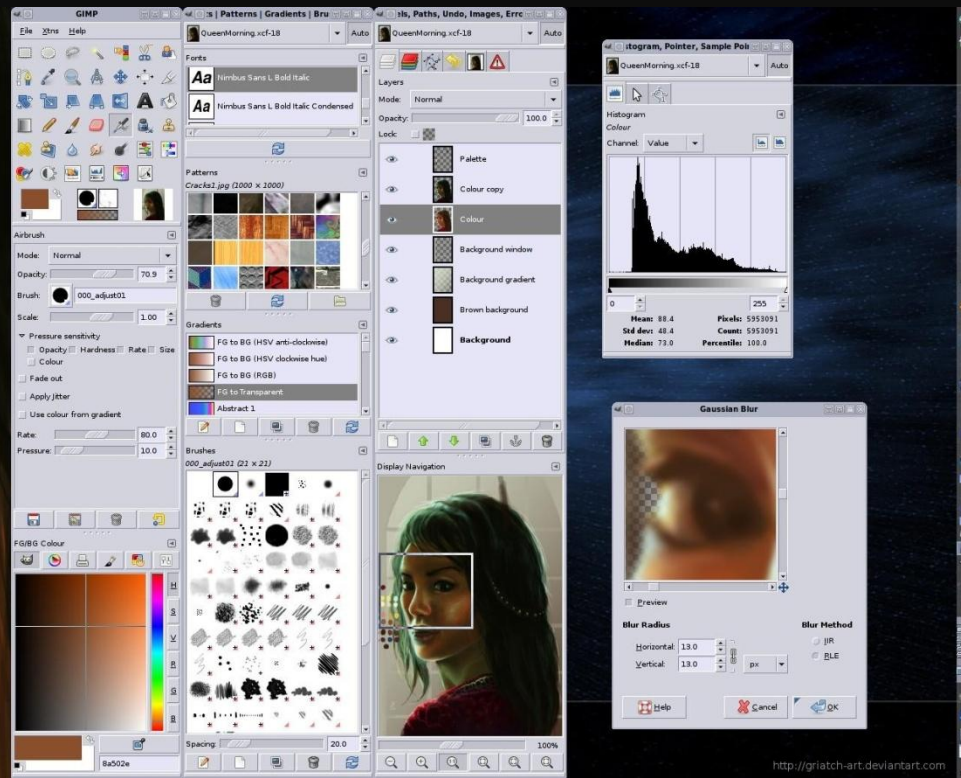
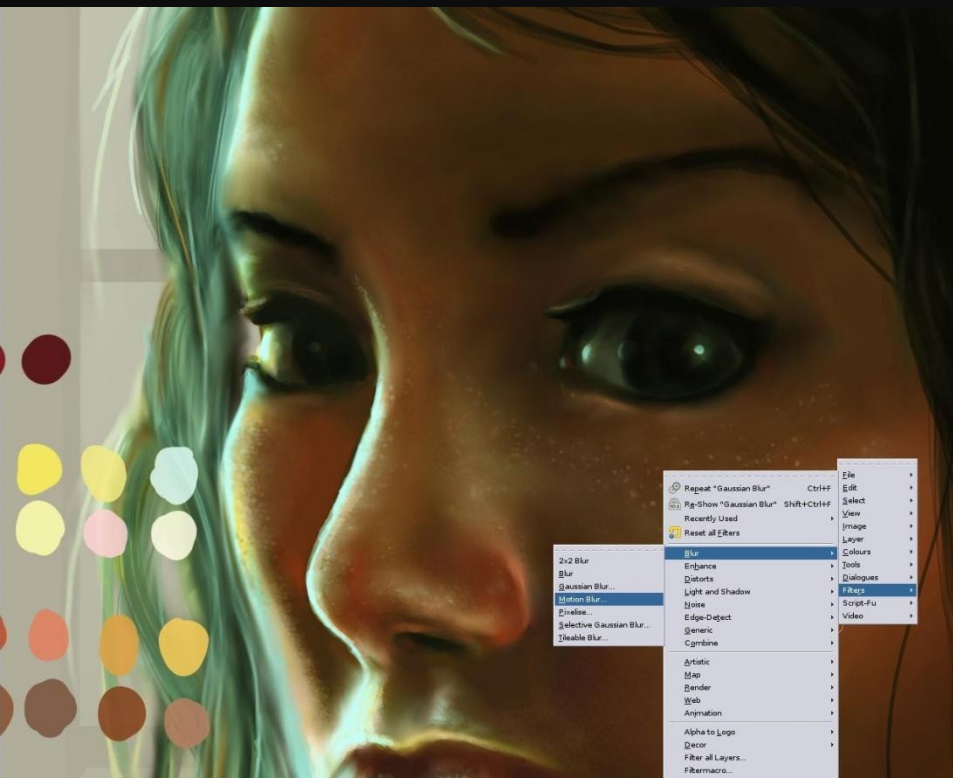
Enable Viewing File Extensions on  
Your Computer!

# Software Power Increases With Hardware Power



8-Bit, 16-Bit, 32-Bit, 64-Bit, etc, etc...

# Lab: Install a New Program



Gimp 2.6  
GNU Image Manipulation Program  
<http://www.gimp.org>

# Lab: Install a New Program



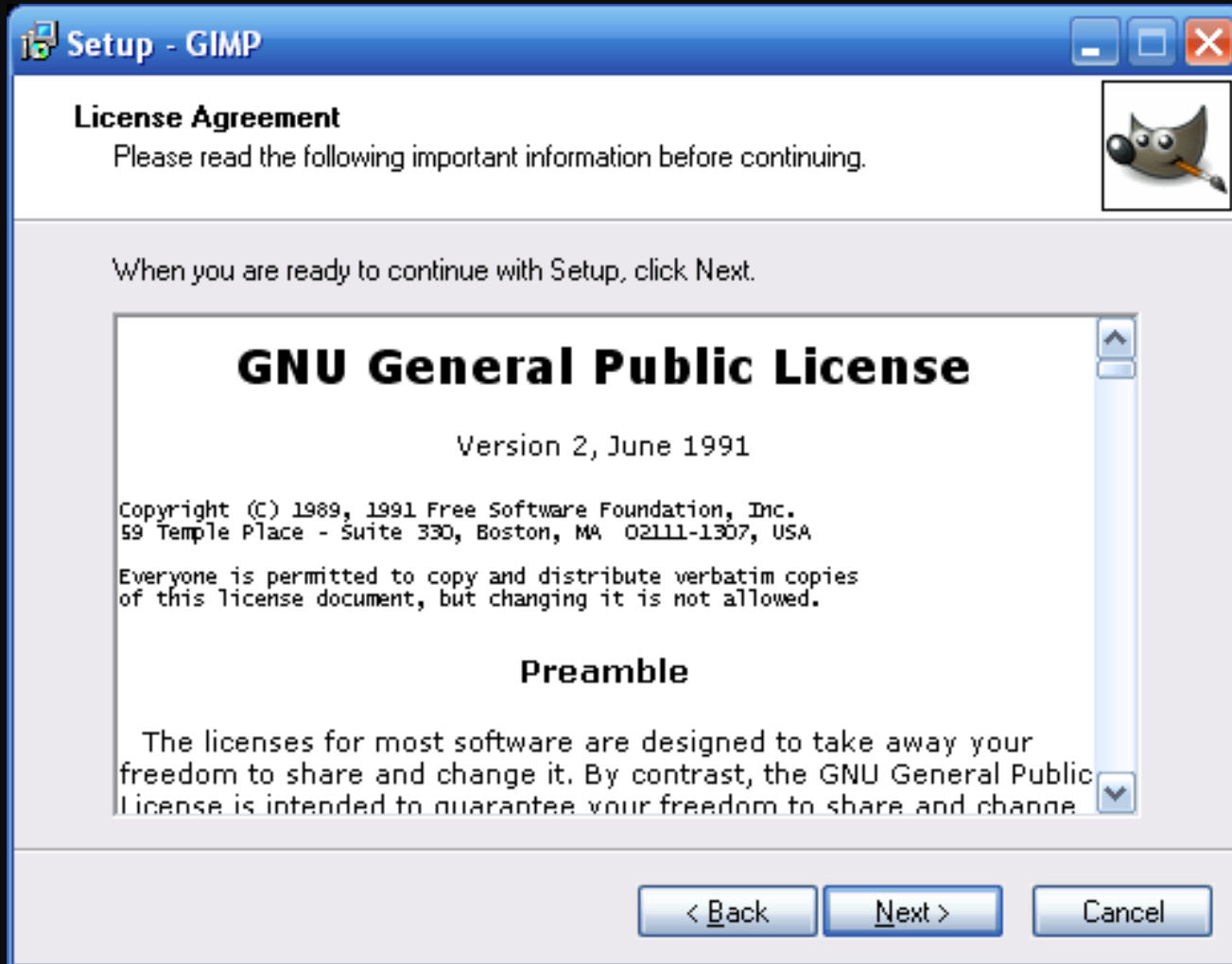
Operating System Security Check

# Lab: Install a New Program



Software Installation Wizard

# Lab: Install a New Program



End User License Agreement (EULA)

# Lab: Install a New Program

## Notes on the GNU General Public License

*“When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.”*

*“...if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.”*

# Lab: Install a New Program

## Things to Watch Out for in a EULA

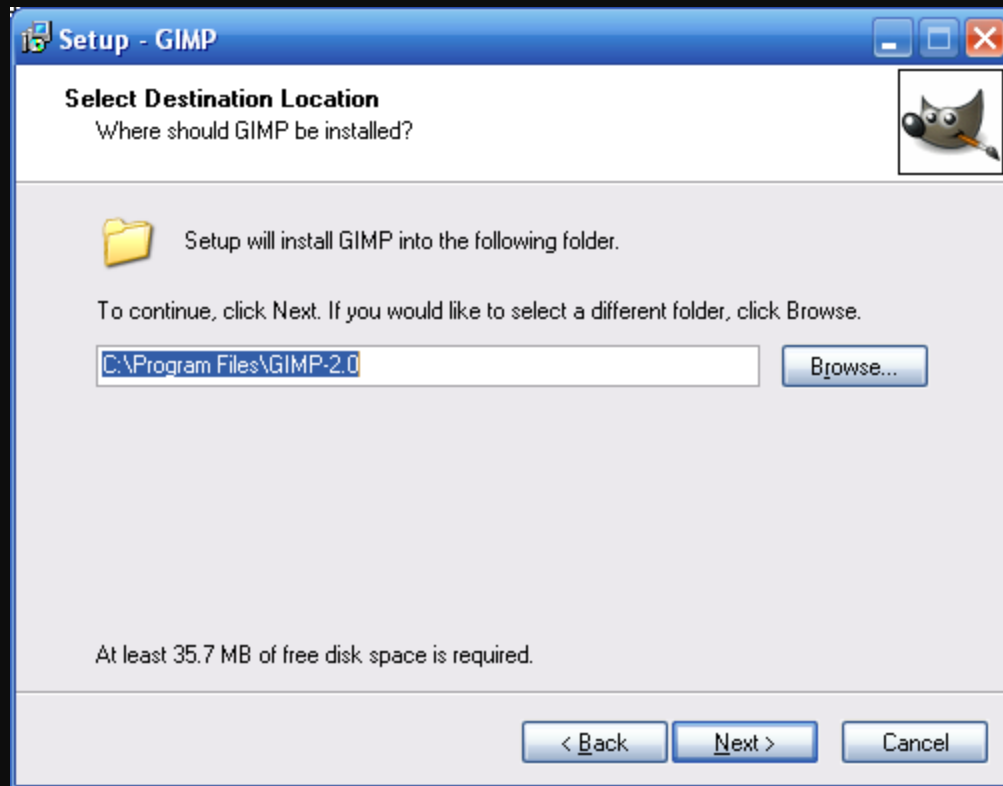
- The EULA is a contract, by clicking the “I Have Read and Agree” button, you may be giving away important rights.
- You may be agreeing to let the software install spyware in exchange for the free program (Spyware).
- You may be agreeing to let the software cripple your computer until you pay the software maker to remove the program.

# Lab: Install a New Program



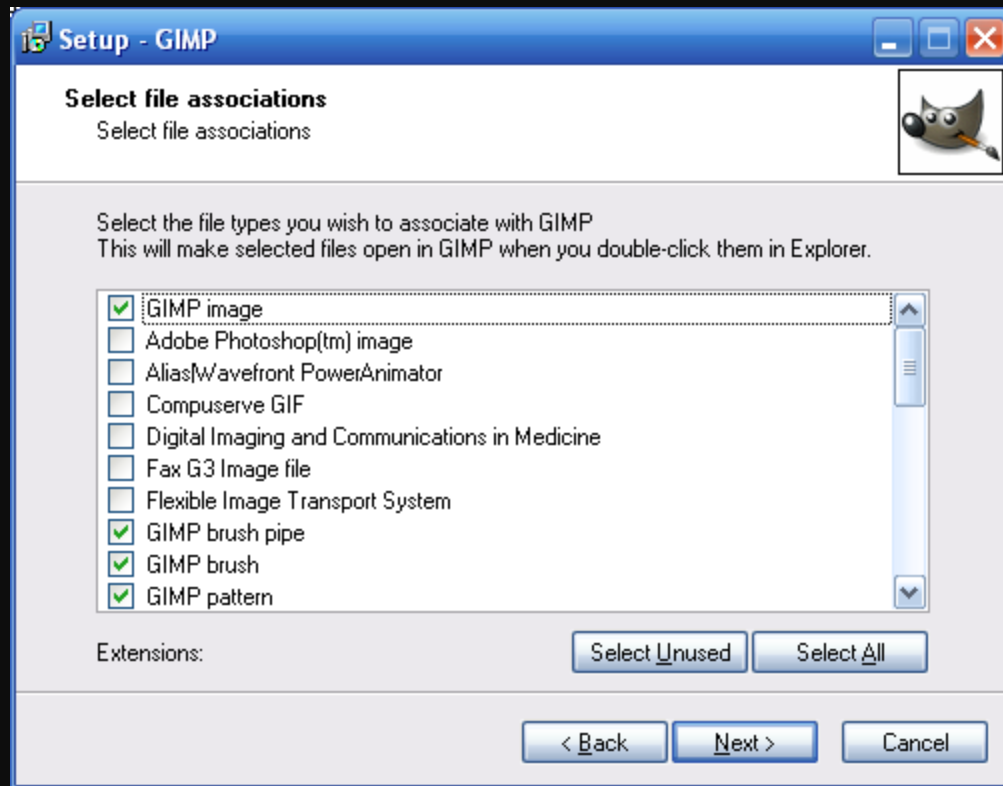
Click "Customize"

# Lab: Install a New Program



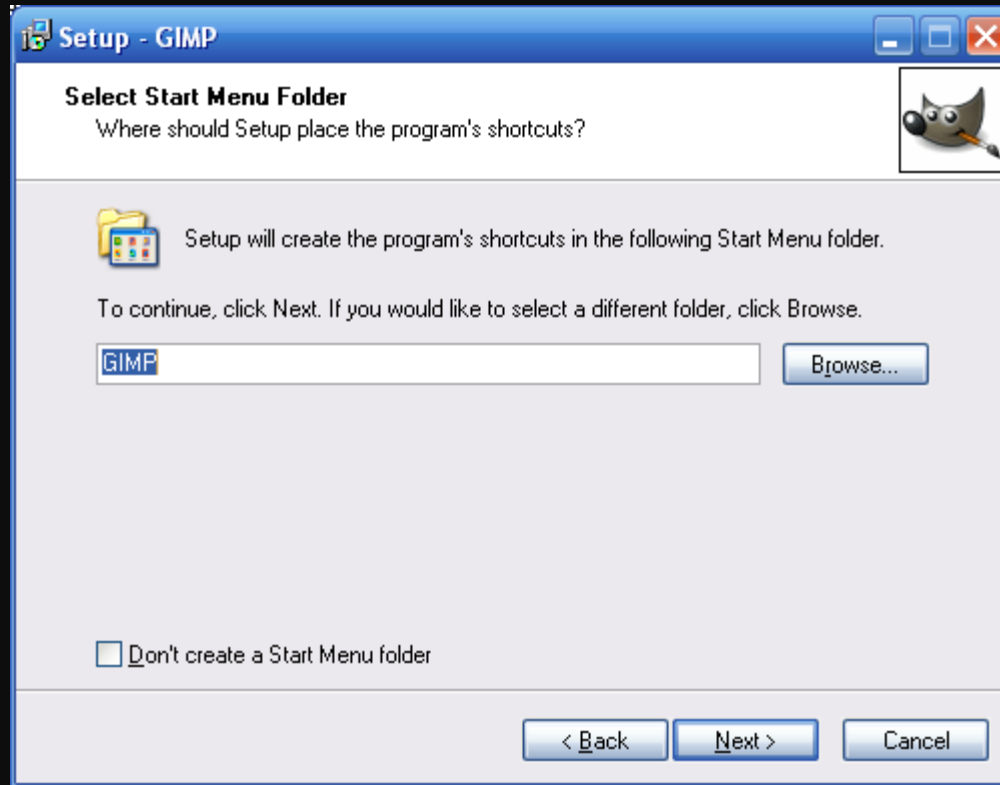
Note: Folder where software will be installed and disk space required to install it.

# Lab: Install a New Program



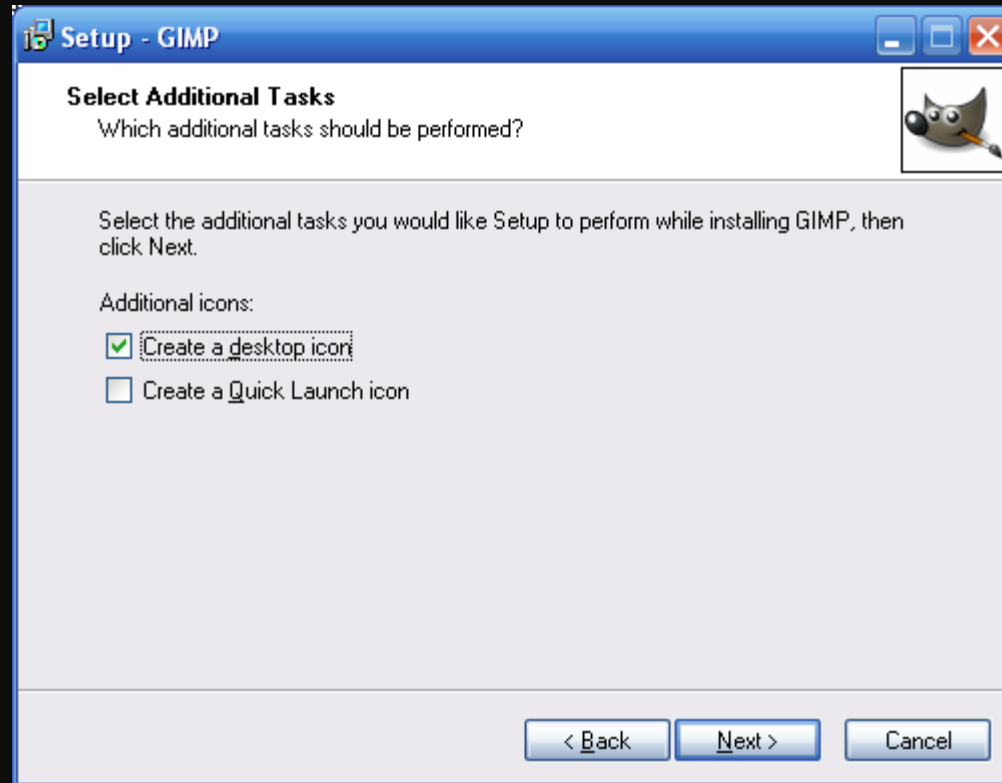
File types to be associated with this software.

# Lab: Install a New Program



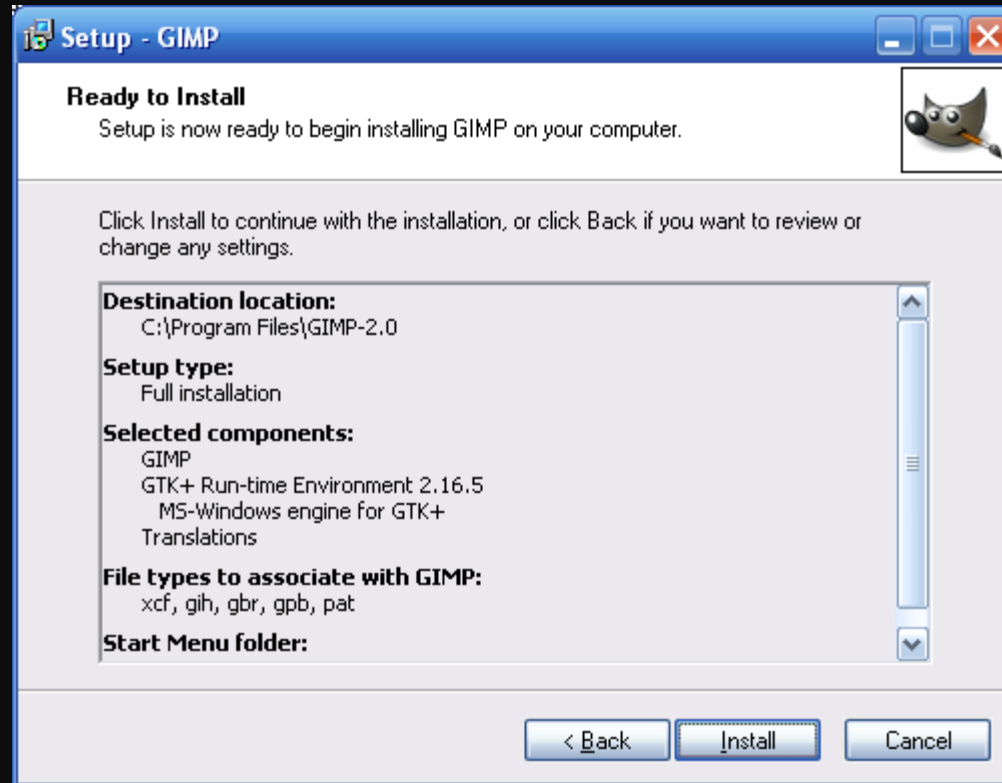
Folder where the program will appear under  
“Start>All Programs”

# Lab: Install a New Program



Do you want a desktop or quick launch icon?

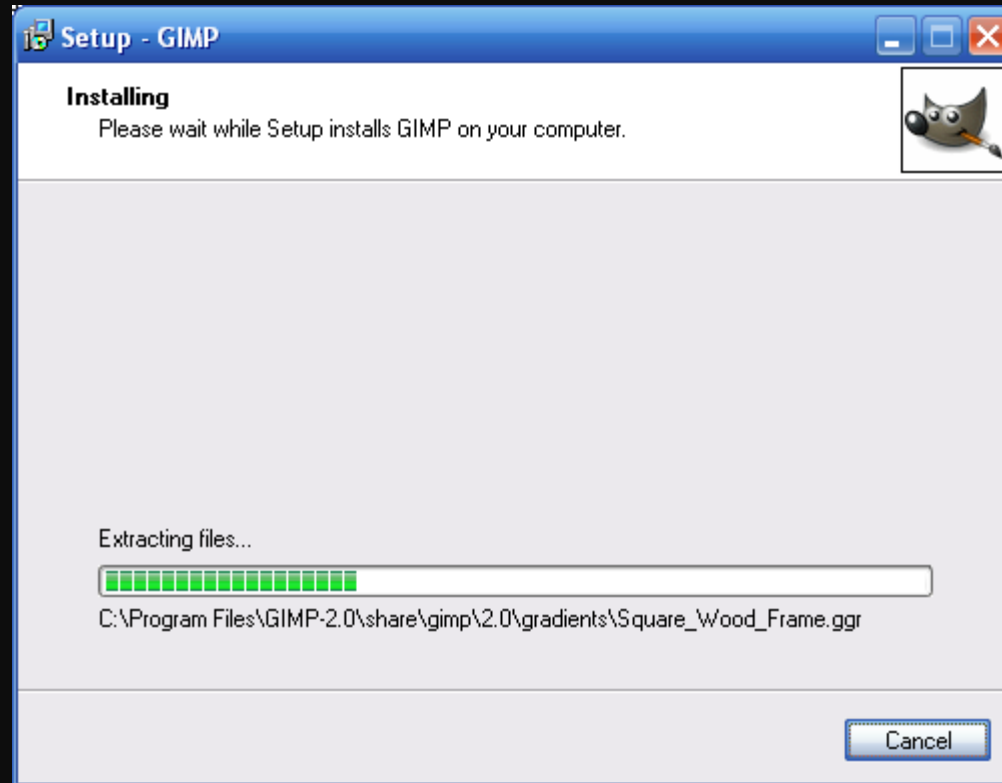
# Lab: Install a New Program



## Review

(Note: Different Programs have Different Wizards)

# Lab: Install a New Program



Installing

# Lab: Install a New Program



Installation Complete!

# Lab: Install a New Program

## What Now???

- New Program! Open it up and play with it!
- Create a new file. Throw some paint on the canvas. Experiment. Change the brushes, tools, apply some filters. Go free form and create some art.
- Try downloading an image and editing it.
- Go to <http://www.gimp.com> and browse the documentation or search Google to see what kinds of art other people are making!



Have Fun!