



Mac OS X



The University of Utah

Student Computing Labs



Mac OS X Part 2

The University of Utah
Student Computing Labs
Macintosh Support
mac@scl.utah.edu



The University of Utah

Student Computing Labs



We Will Cover

- Resources for switching to Mac OS X
- Resources for adding Mac OS X
- Basic differences between Mac OS X and:
 - Classic Mac OS
 - Windows
 - UNIX



We Will NOT Cover

- Troubleshooting
- Networking
- File System
- History



Summary

- Differences and Resources for:



Classic Mac OS users



Windows users



UNIX users

- Options for Integrating Mac OS X



The University of Utah

Student Computing Labs



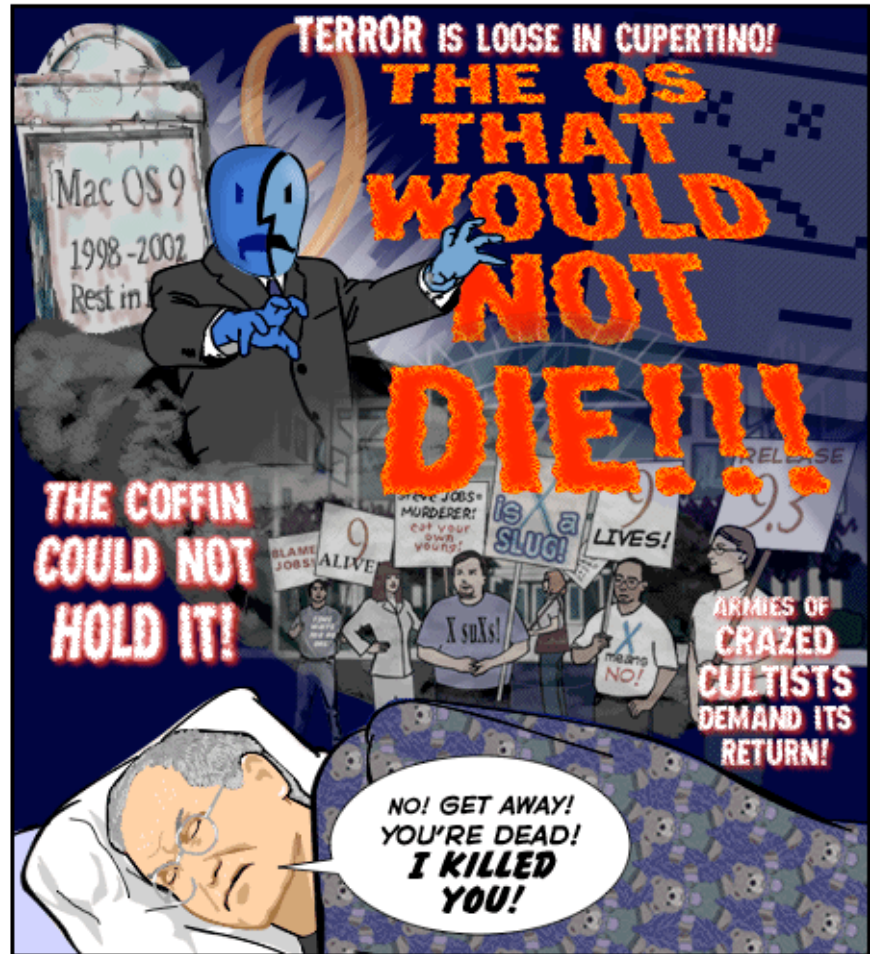
Mac OS 9 Switchers



The University of Utah

Student Computing Labs





Nightmare in Cupertino!

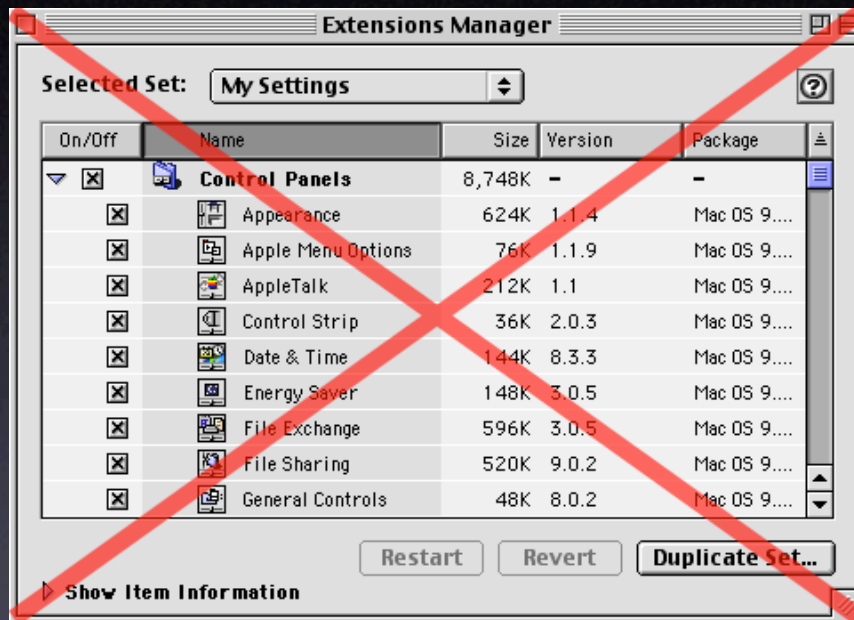


Removed

- Control Panels
 - Extensions Manager
 - File Exchange
 - Memory
- Applications
 - Graphing Calculator
 - Scrapbook



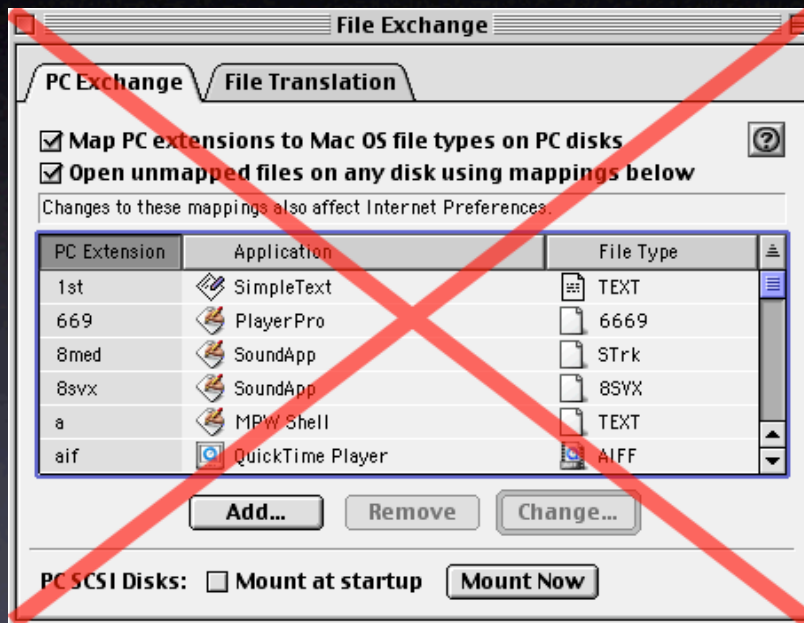
Extensions Manager



- Device drivers
- Only loaded when needed
- Modifications
 - Startup Applications



File Exchange



- Functionality
 - Mac OS X uses extensions (.jpg, .pdf, .mpg, etc.)
 - Extensions can be hidden



Demo File Mapping

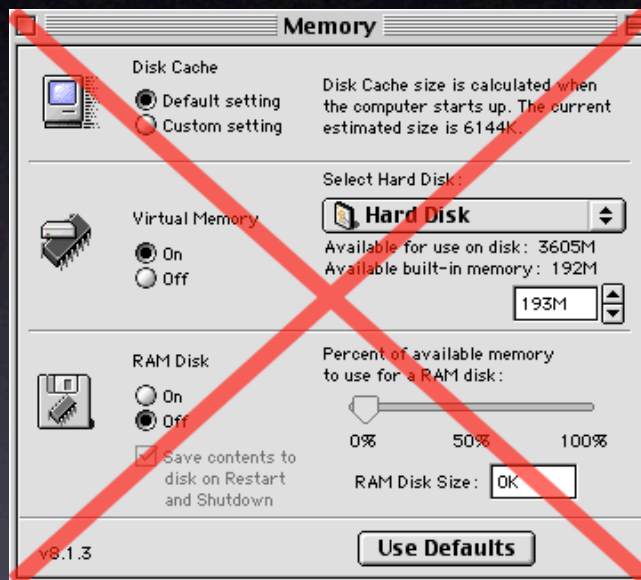


The University of Utah

Student Computing Labs



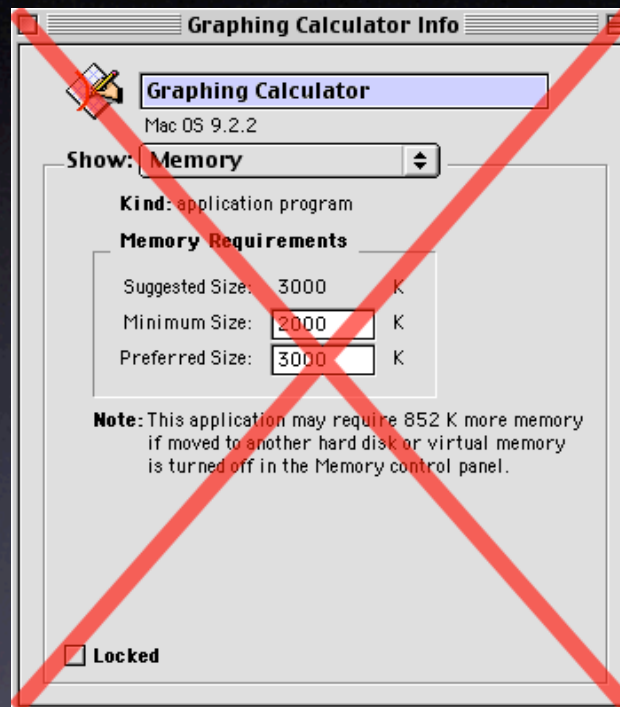
Memory



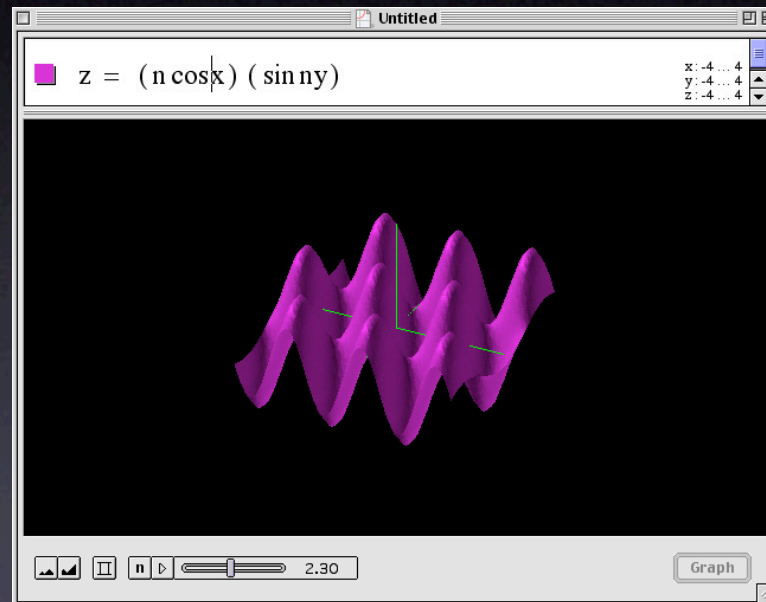
- Not needed
- UNIX memory management



Memory



Graphing Calculator

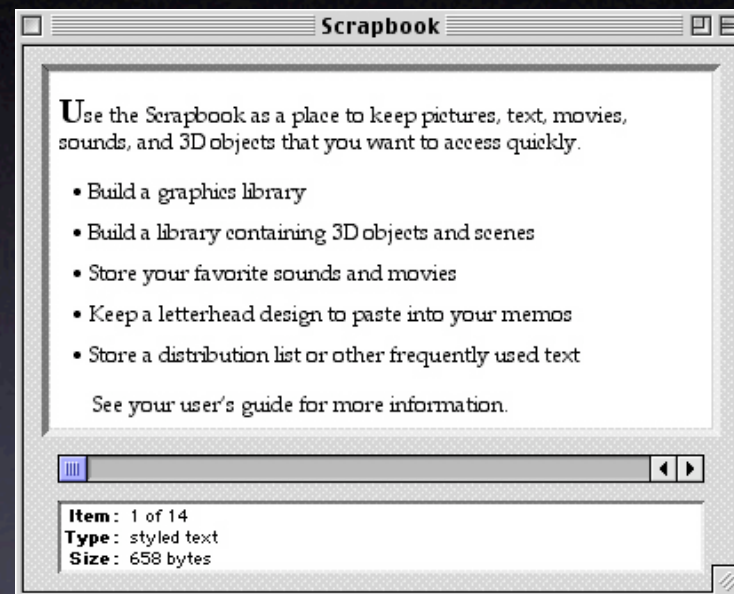


The University of Utah

Student Computing Labs 

Scrapbook

- Mac OS X alternatives
 - Fishpad
 - Schnibbles
 - Scrapper
 - Shareware Apps

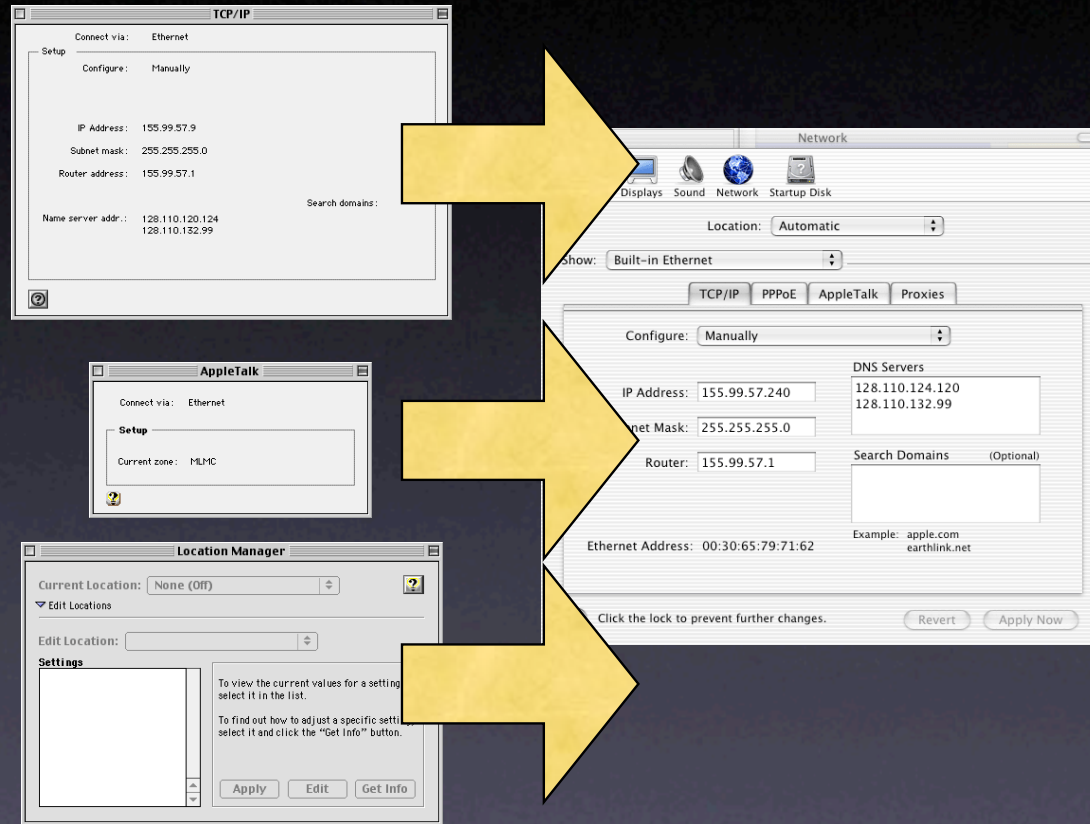


Replaced

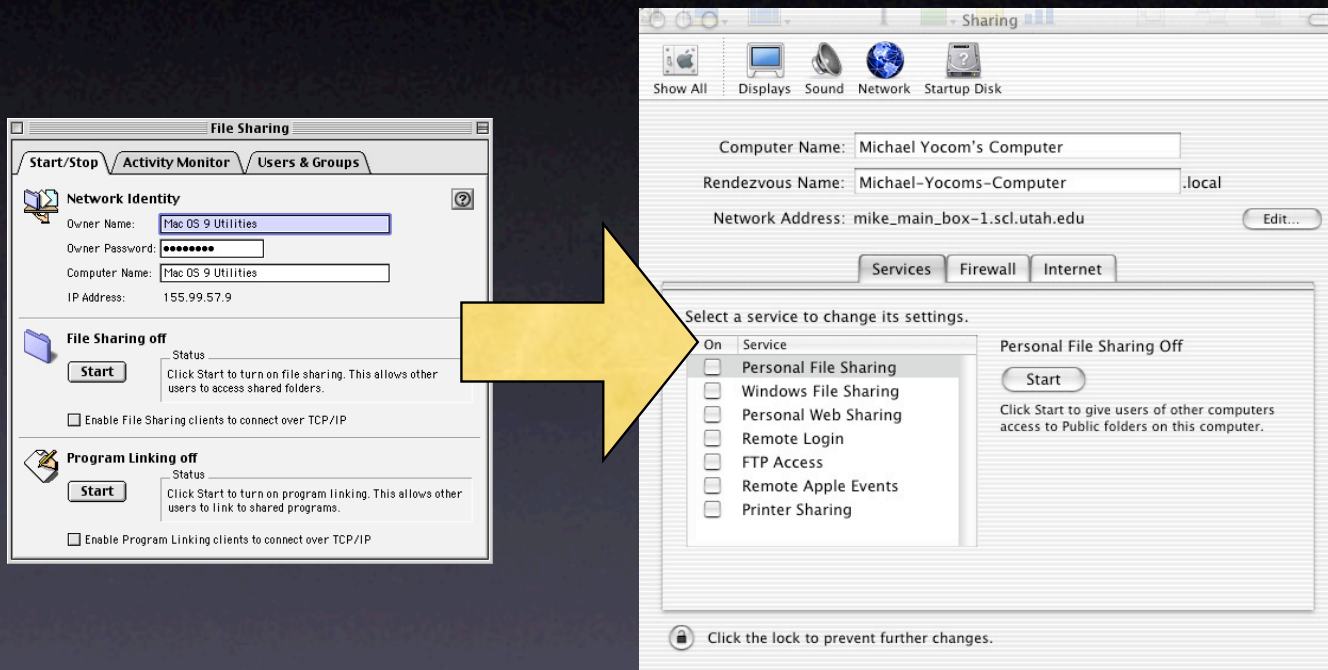
- Control Panels
 - Network (AppleTalk, DialAssisst, irDA, TCP/IP)
 - Sharing (File Sharing)
 - Accounts (Multiple Users)
- Applications
 - TextEdit (SimpleText)
 - Dock (Application Menu and Launcher)



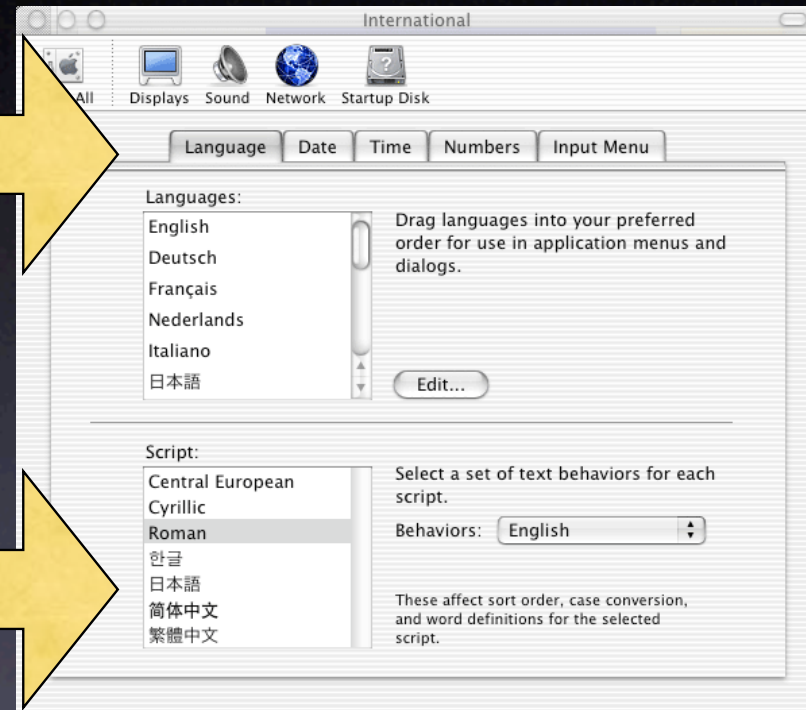
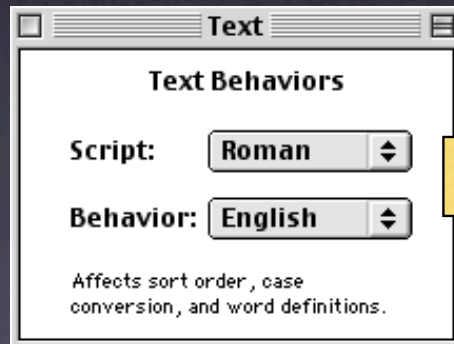
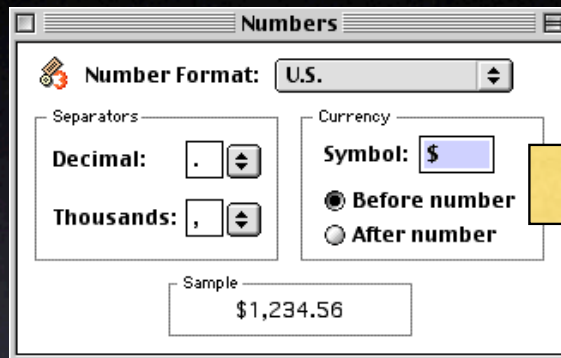
Replaced



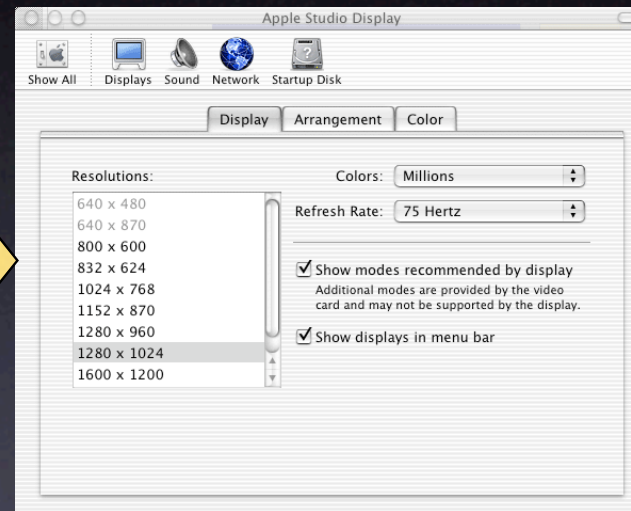
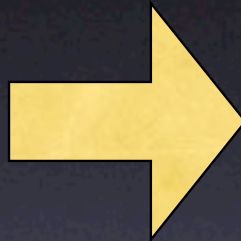
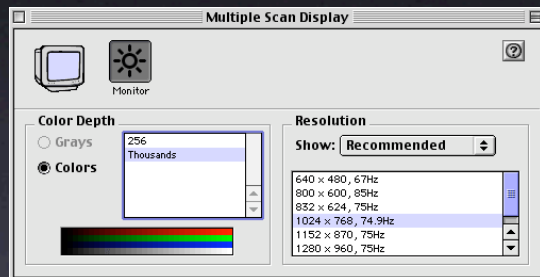
Replaced



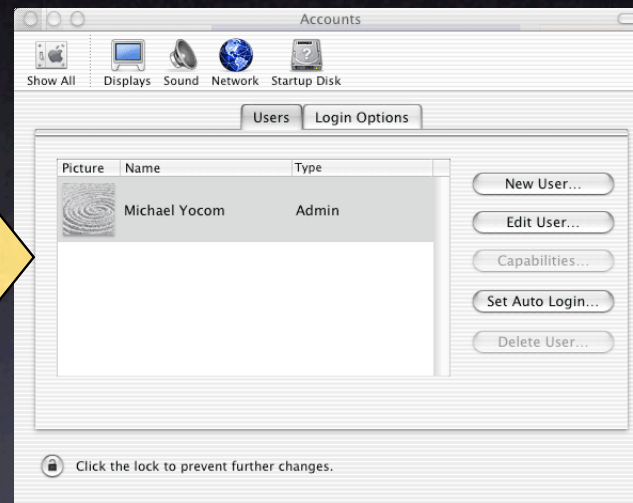
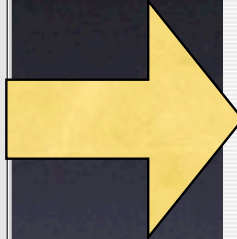
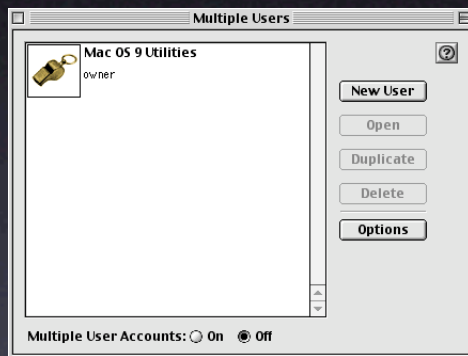
Replaced



Replaced



Replaced

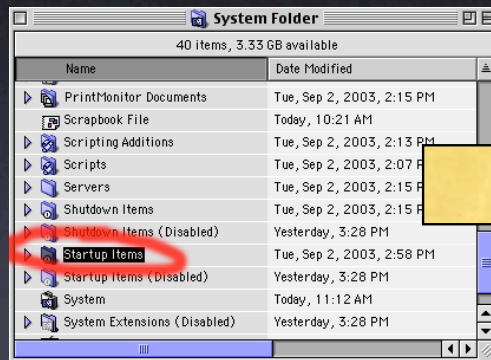


The University of Utah

Student Computing Labs



Replaced

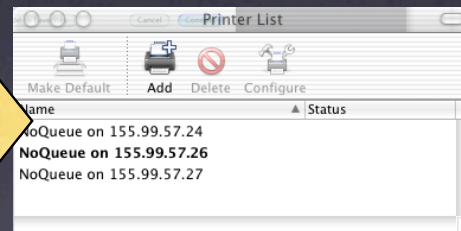
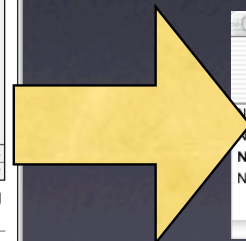
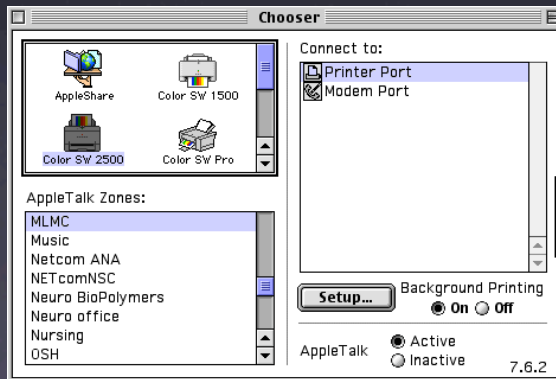
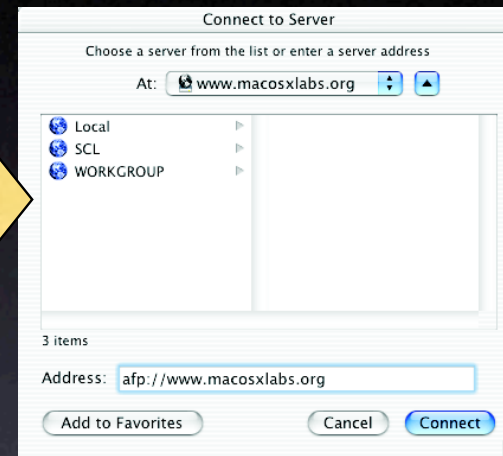
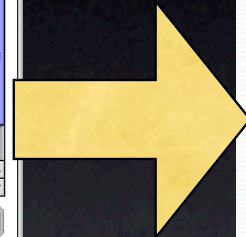
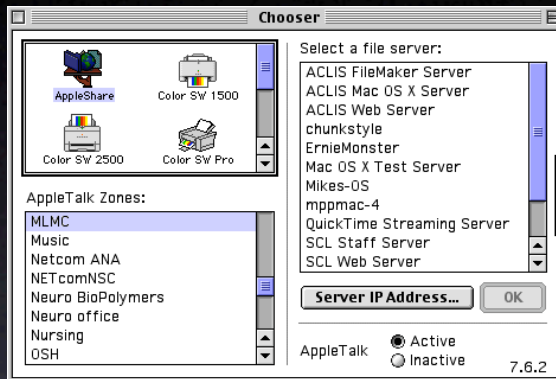


The University of Utah

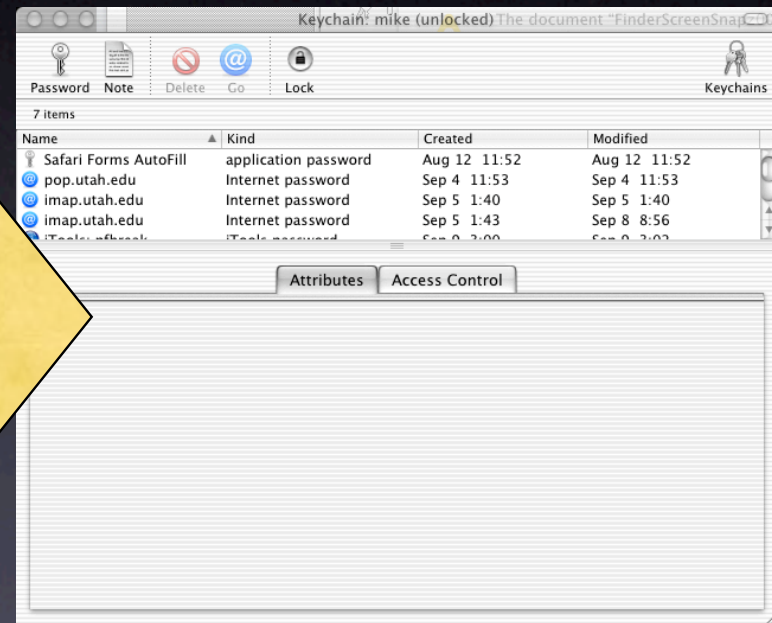
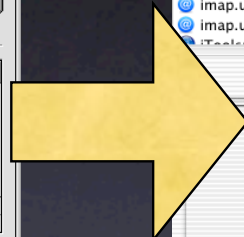
Student Computing Labs



Replaced



Replaced

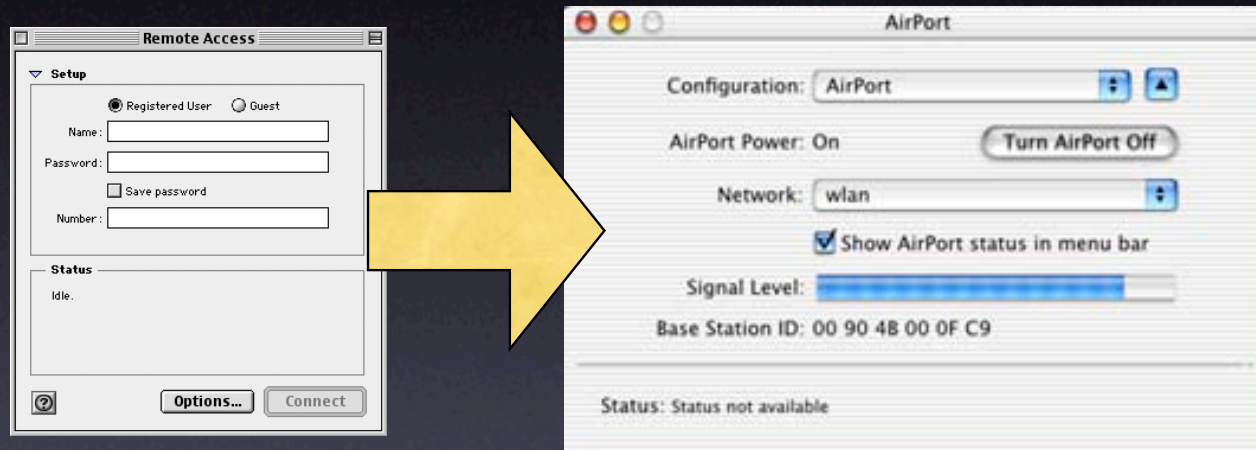


The University of Utah

Student Computing Labs



Replaced



Replaced

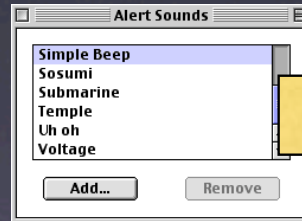
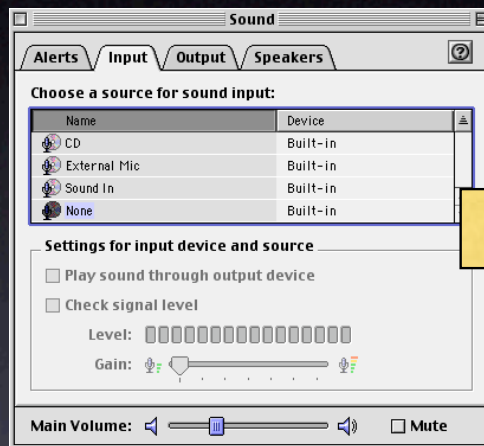


The University of Utah

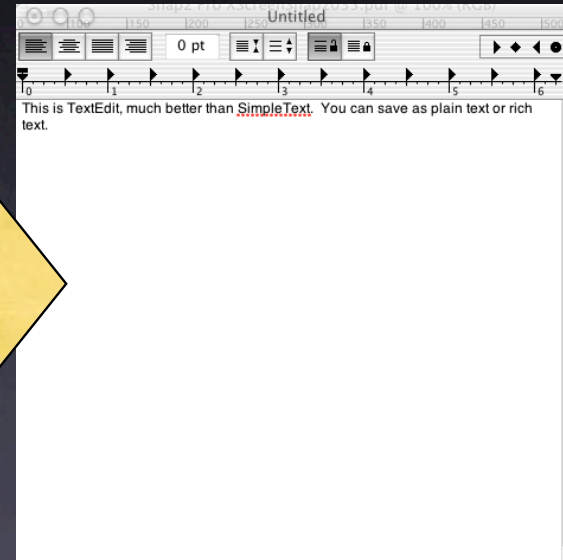
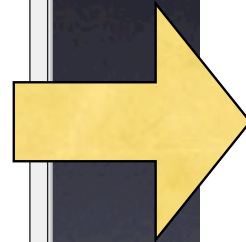
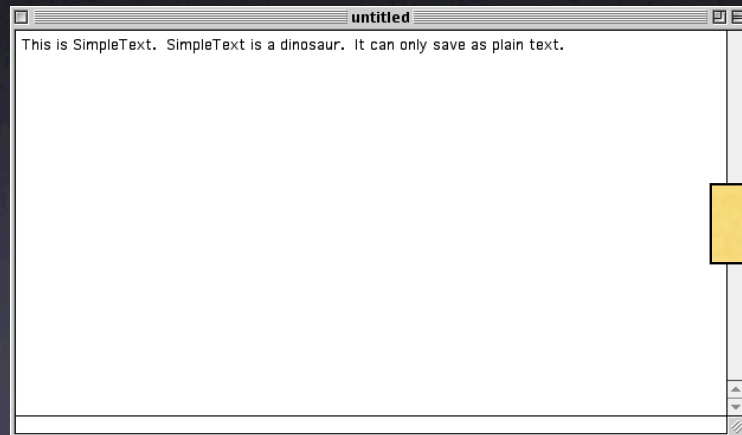
Student Computing Labs



Replaced



Replaced



Replaced

- Put Away (⌘-Y)
 - Use Eject (⌘-E) or drag to Trash
 - CD/DVD tray
 - Eject button on Pro Keyboard
 - F12 button on portables



Replaced



The University of Utah

Student Computing Labs



Demo Dock

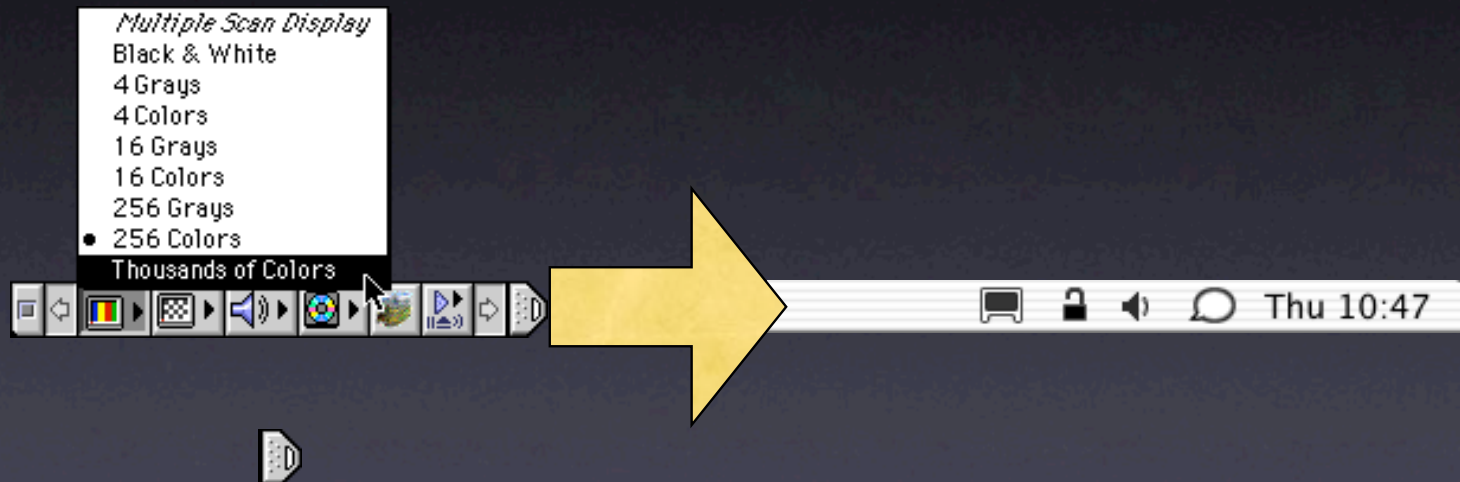


The University of Utah

Student Computing Labs



Replaced



The University of Utah

Student Computing Labs



Demo Menu Controls



The University of Utah

Student Computing Labs



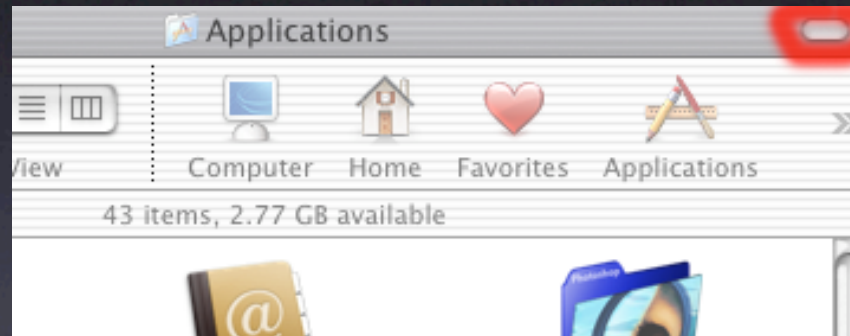
Apple Menu

- Different color
- Not easily customized
- Different contents
 - About this Mac
No memory usage
 - Location
 - Sleep, Restart, Shutdown



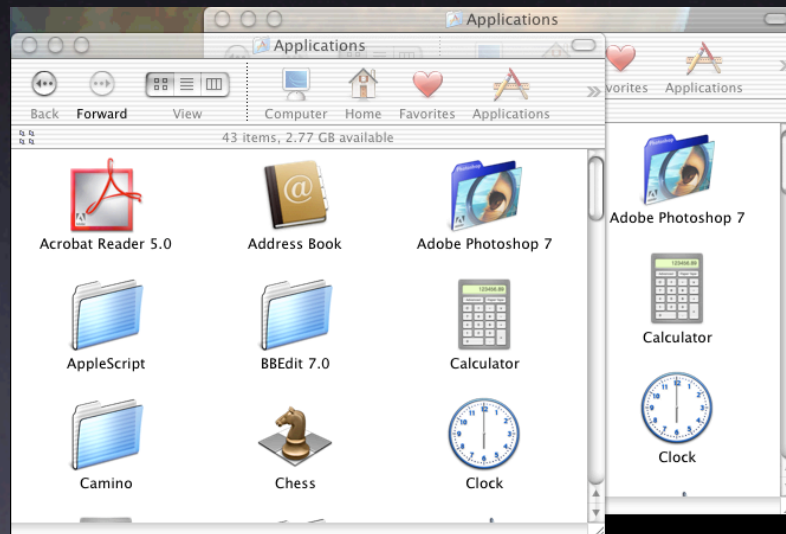
Window Behavior

- No new window on opening a folder
 - Hide toolbar to change



Window Behavior

- Multiple windows of the same folder



Window Behavior

- Mac OS X interface more customizable
 - Background color or picture
 - Font Size
 - Icon Size



Window Behavior

- Mac OS 9
 - Icon View
 - List View
- Mac OS X
 - Icon View
 - List View
 - Column View



Demo

Window Behavior



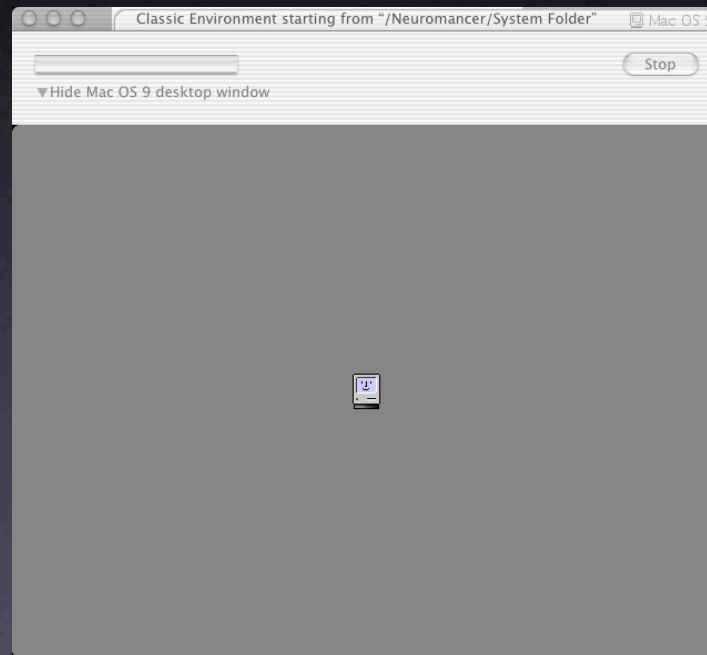
The University of Utah

Student Computing Labs



Classic

- Mac OS 9 programs run through Classic



The University of Utah

Student Computing Labs



Demo Classic



The University of Utah

Student Computing Labs



Resources

- Mac OS 9 switching is IF, not HOW
- Apple Compares OS X and Mac OS 9
- O'Reilly Network, switching to Mac OS X



Windows Switchers



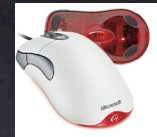
The University of Utah

Student Computing Labs



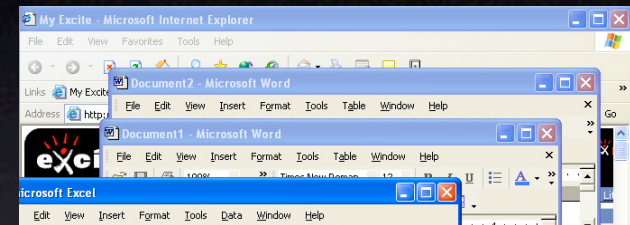
Mice

- One button mouse default
 - Right click = control-click
- Multi-button mice are supported
- Both platforms support USB



Menu Bar

- Windows
 - A menu bar for every window
- Mac OS X
 - One menu bar at top of screen
 - Some ported apps have one per window



The University of Utah

Student Computing Labs



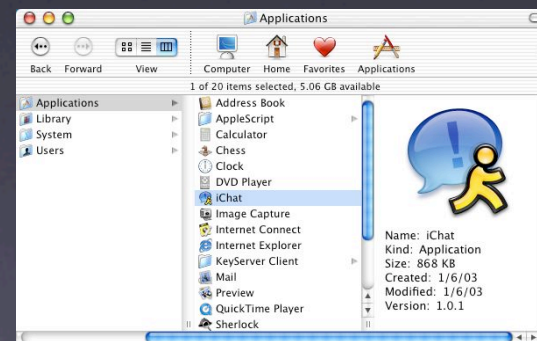
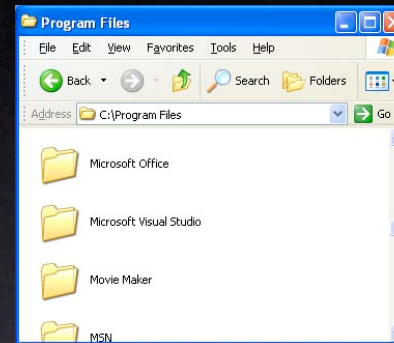
Desktop

- Windows
 - /Documents and Settings/<name>/Desktop
- Mac OS X
 - /Users/<name>/Desktop



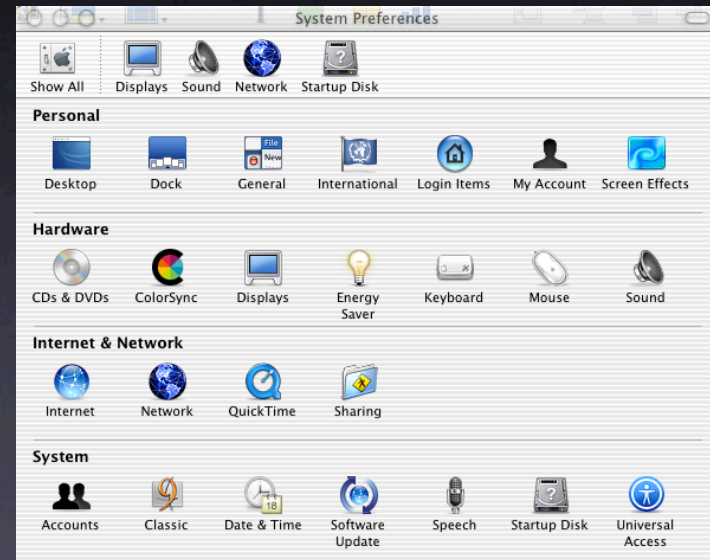
Browsing

- Windows
 - Windows Explorer
- Mac OS X
 - Finder
 - Click on Desktop
 - Click on icon in Dock



Control Panel

- Windows
 - Windows Control Panel
- Mac OS X
 - System Preferences



Task Bar



- Windows
 - Task Bar
- Mac OS X
 - Dock
 - Launch Applications
 - Running Application have a triangle
 - Add/remove applications by dragging in/out of Dock
 - Click Yellow button to minimize windows into Dock



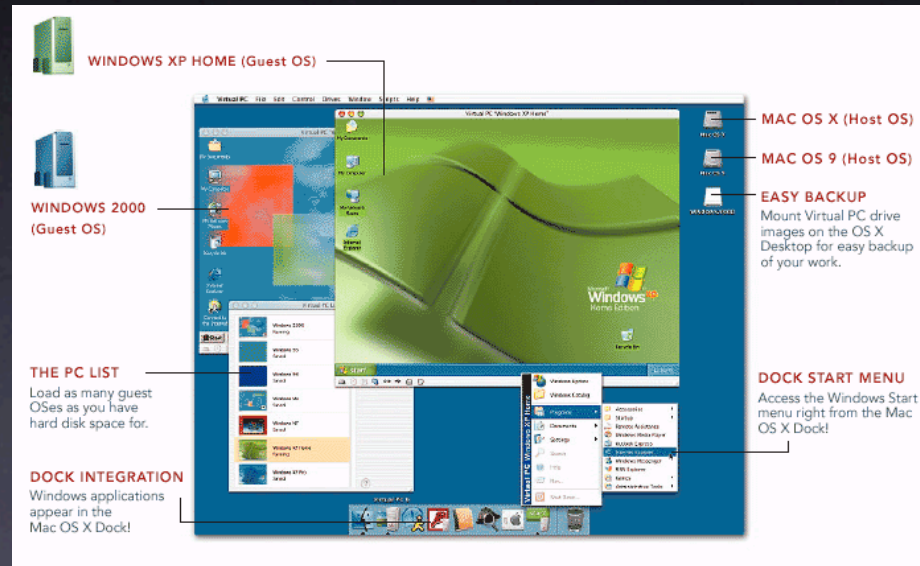
Keystrokes

- Windows
 - Control key shortcuts
- Mac OS X
 - Command key shortcuts
 - Save: ⌘-S
 - Copy: ⌘-C
 - Paste: ⌘-V
 - Close Window: ⌘-W
 - Quit: ⌘-Q
 - Switching Application: ⌘-Tab
 - More key short cuts in Menus



Virtual PC (VPC)

- Run Windows with Virtual PC



Demo Virtual PC



The University of Utah

Student Computing Labs



Resources

- [Switching to the Mac: The Missing Manual](#)
- [Apple's Switch Site](#)
- [Move2Mac](#)
- [www.XvsXP.com](#)
- [O'Reilly Network](#)



UNIX Switchers



Terminal

- Other UNIX variants
 - xTerm
- Mac OS X
 - Terminal.app
 - bash
 - csh
 - sh (default for shell scripting)
 - tcsh (default for users)
 - zsh



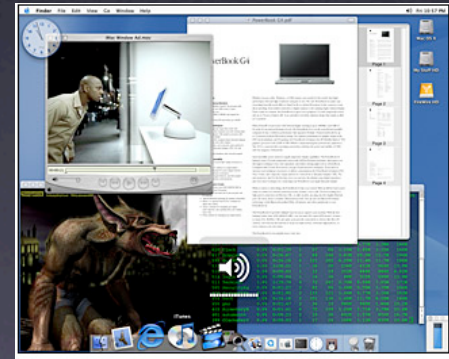
Terminal Settings

- Other UNIX variants
 - .xinitrc
- Mac OS X
 - “Window Settings...” in Terminal



Windowing System

- Other UNIX variants
 - X Window System
- Mac OS X
 - Quartz
 - X11 available as a beta
Final version in Mac OS X 10.3 “Panther”
 - Third-party X11 available



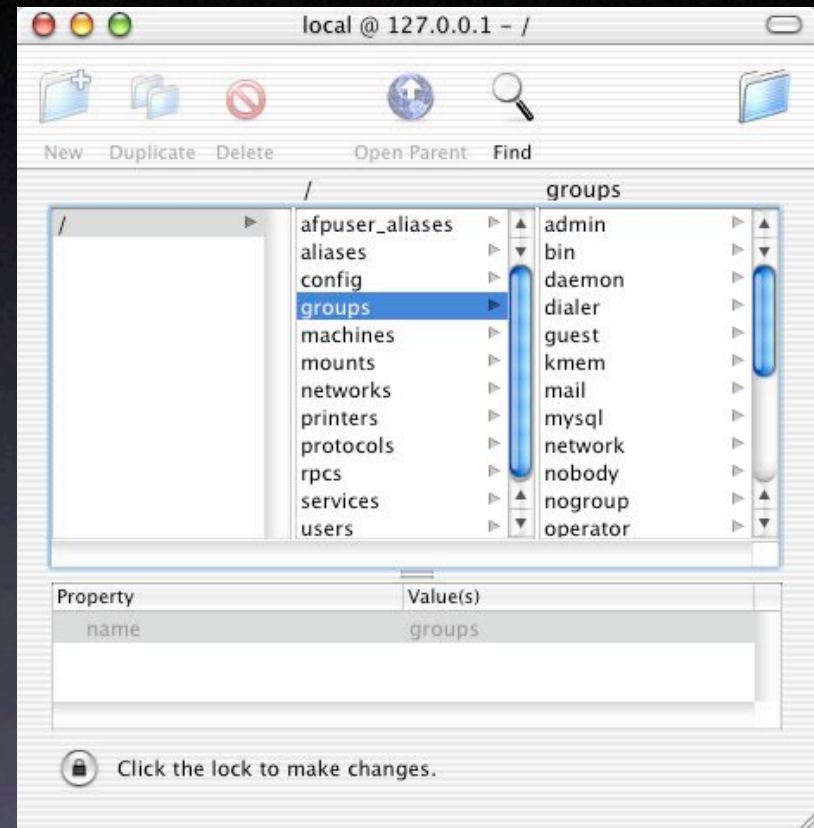
The University of Utah

Student Computing Labs



/etc/

- Other UNIX variants
 - /etc/*
- Mac OS X
 - NetInfo



root

- Other UNIX variants
 - “root” on by default
- Mac OS X
 - “root” off by default
 - More secure
 - “sudo”

```
Last login: Fri Feb 28 18:41:13 on ttyp2
Welcome to Darwin!
[msmac-9:~] james% sudo -s
Password:
[msmac-9:~] root# █
```



File System

- /var/ and /usr/ are hidden
 - Do “ls /” to view hidden folders
- Additional directories
 - Applications/
 - Developer/
 - Library/
 - System/
 - Users/
 - Volumes/



Hidden Files

- Prefixing with a “.”
- .hidden in root directory
- HFS+
 - SetFile with Developer Tools



Aliases vs. Links

- Macintosh aliases
 - Cocoa, Carbon, and Classic apps
 - Not UNIX applications
- UNIX links
 - All four can use



Applications

- UNIX applications in Mac OS X
 - /usr/bin
 - /usr/local/bin
 - /usr/sbin
 - /usr/share
 - /usr/libexec
- To get a full list:
 - Control-x then control-d in Terminal



Demo Applications



The University of Utah

Student Computing Labs



Fink

- UNIX and Linux apps on Mac OS X
- Over 2,900 already ported
- More on the way



The University of Utah

Student Computing Labs

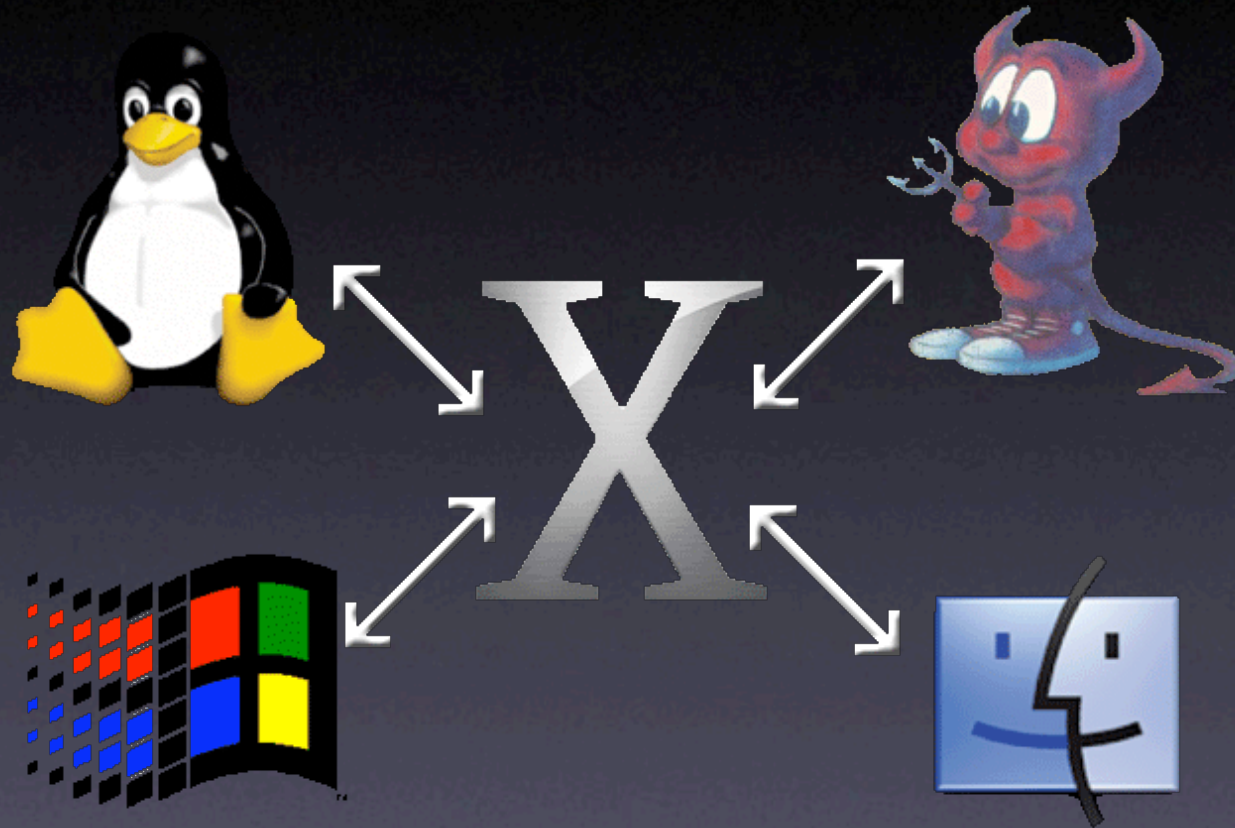


Resources

- “Mac OS X for Unix Geeks”
- developer.apple.com
- www.sourceforge.net
- fink.sourceforge.net
- www.opendarwin.org
- www.oreillyn.com
- www.osxfaq.com
- www.macosxhints.com



Integrating Mac OS X



The University of Utah

Student Computing Labs



Integration File Servers

- Supported Protocols
 - Supports both client and server abilities
 - Mac Servers (AFP)
 - Windows Servers (SMB/CIFS)
 - UNIX Servers (NFS)
 - Network Browsing (Rendezvous)
 - Internet File Servers (WebDAV)



Integration File Servers

- Prosoft: NetWare Client for Mac OS X
- Thursby: ADmitMac and DAVE



Integration File Translators

- MacLink Plus
- Over 6,000 Mac OS X applications
 - Many are cross-platform
 - Huge range of supported file types



Next Class

- Mac OS X Part 3
 - Friday, October 17, 2003
 - 9:00 AM — 10:30 AM
 - MMC 1745



The University of Utah

Student Computing Labs



More Classes

- Mac OS X Part 3 — Oct. 17
- Mac OS X Part 4 — Oct. 24
- Mac OS X Part 5 — Oct. 31



Survey

How did we do?

Please take a minute to fill out the survey.



The University of Utah

Student Computing Labs



Contact Information

- Web — www.macos.utah.edu
- Email — mac@scl.utah.edu
- Offices — Multimedia Center (Room 1705), ask at the service counter for someone from the “Mac Group.”



The University of Utah

Student Computing Labs



Questions and Answers



The University of Utah

Student Computing Labs

