



Mac OS X



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Mac OS X Part 4

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Macintosh Support
mac@scl.utah.edu



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We Will Cover

- Applications
 - Installing
 - Built-in
- Printers
 - Setting Up
 - Configuring
 - Print Options



We Will NOT Cover

- Troubleshooting
- Networking
- File System in Depth
- History
- Mac OS X vs. other operating systems



Summary

- Installing Mac OS X Programs
- Admin vs. Normal User
- Applications Bundled With Mac OS X
- Setting Up Printers
- Configuring Printers
- Printing Options

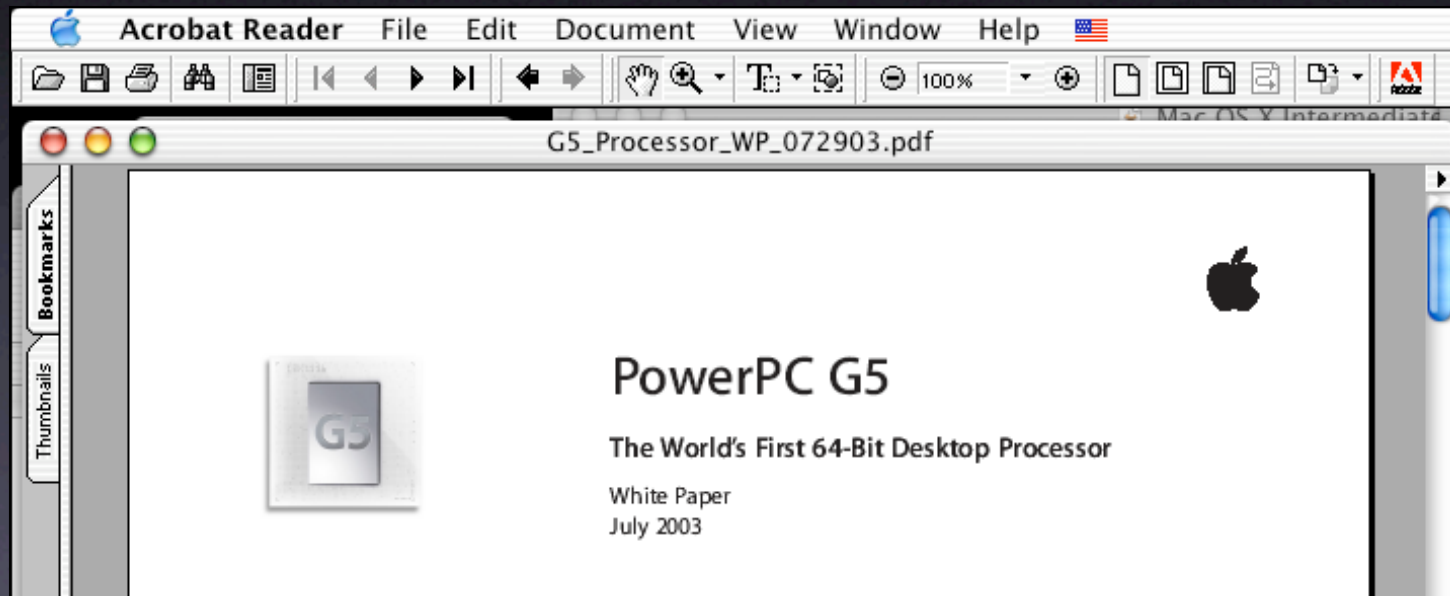


Bundled Applications

- Fifty-two apps included with Mac OS X
 - Twenty-eight utilities
- Locations
 - /Applications/
 - /Applications/Utilities
- Over 800 UNIX command-line tools
 - In Terminal type ^X, then ^D



Acrobat Reader

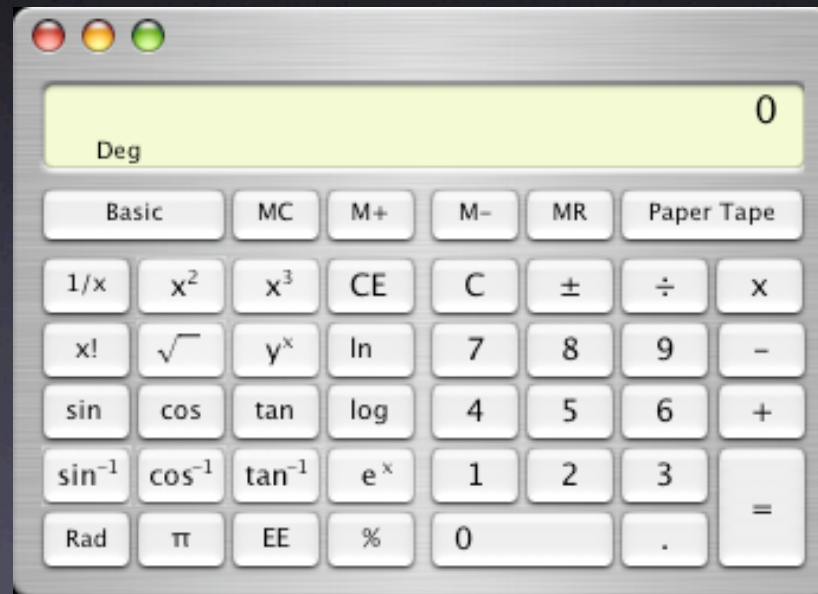


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Calculator

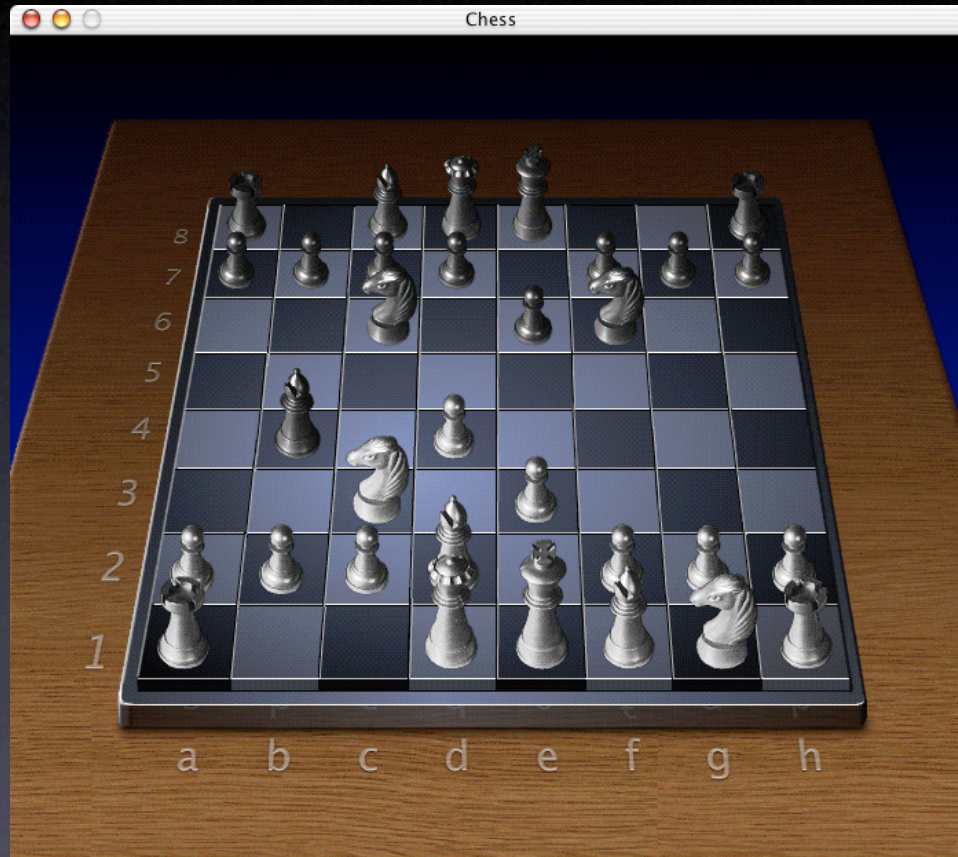


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Chess



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DVD Player

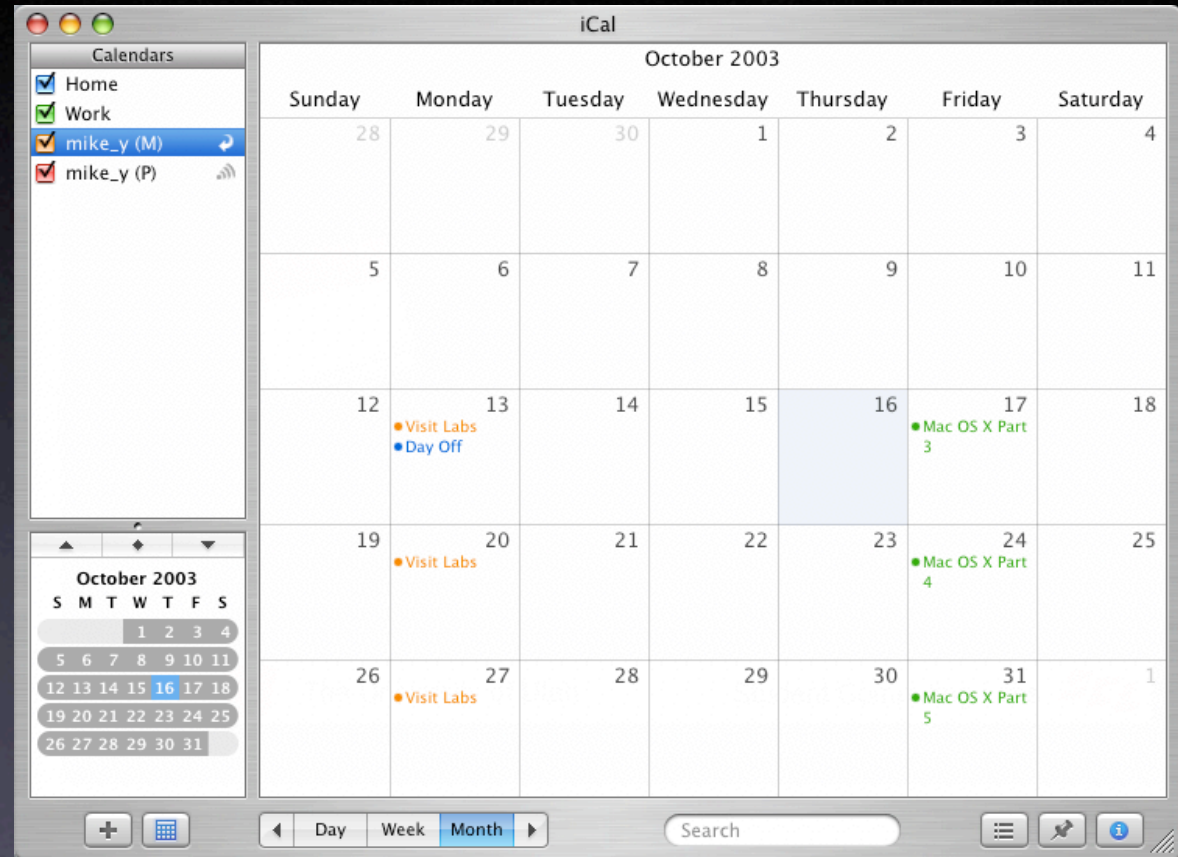


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iCal

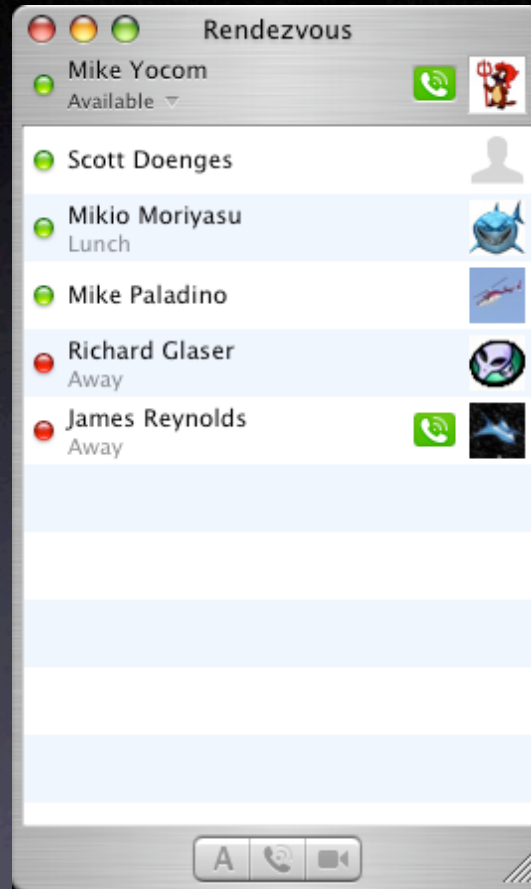


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iChat (AV)

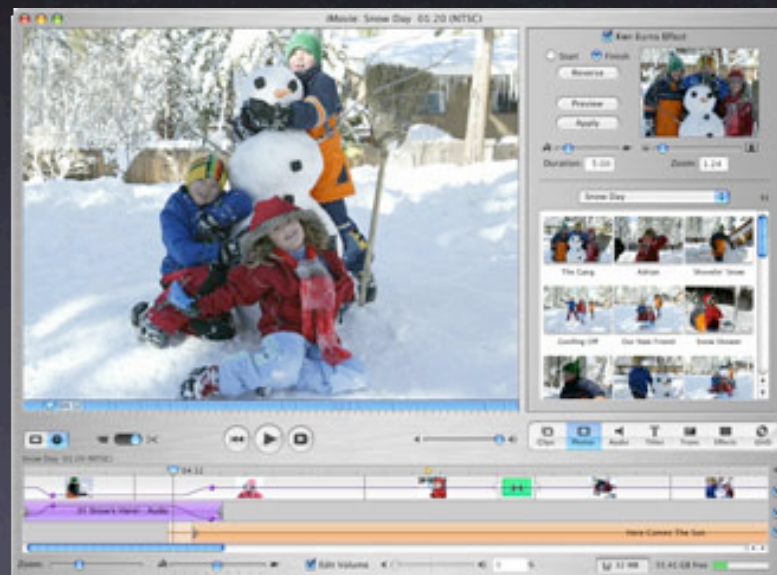


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iMovie



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Internet Connect



VPN Connection

Use VPN (PPTP) over your existing Internet connection 

Server address:

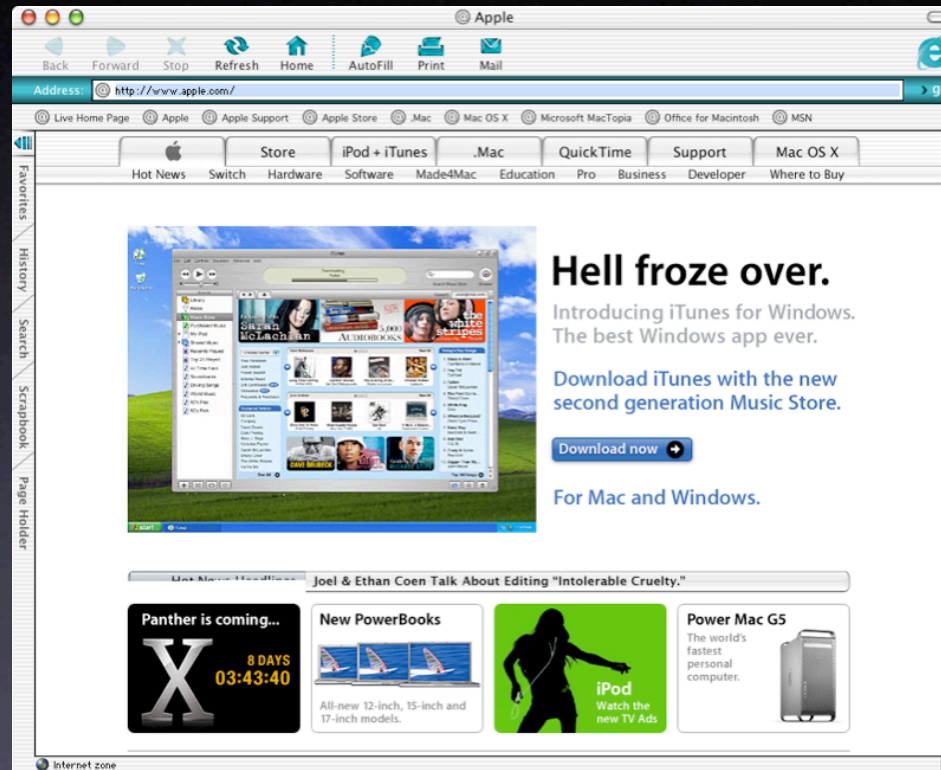
User name:

Password:

Add to Keychain

Status: Idle

Internet Explorer

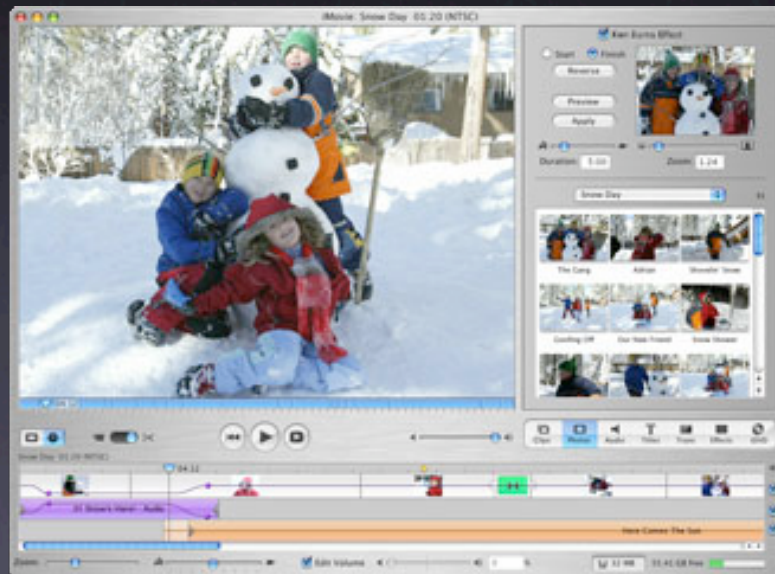


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iPhoto



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iTunes



Mail



In (10 unread)

Delete Reply Reply All Forward Compose Mailboxes Get Mail Junk Search "In"

29 messages

From	Subject	Date Received	Time
Mike Yocom		September 16, 2003	1:22 PM
store@palladiumbooks.com	Your Palladium Books Online Order 39590	September 27, 2003	5:20 PM
William Mangum	Guys Rules	September 29, 2003	11:18 AM
store@palladiumbooks.com	Your Palladium Order	September 29, 2003	12:03 PM
midnightwarrior@utah-inter.net	Fwd: They found NEMO!	September 29, 2003	10:03 PM
Mike Yocom		September 30, 2003	4:57 PM

In (10)
Out
Drafts
Sent
Trash
Drafts
Sent Messages

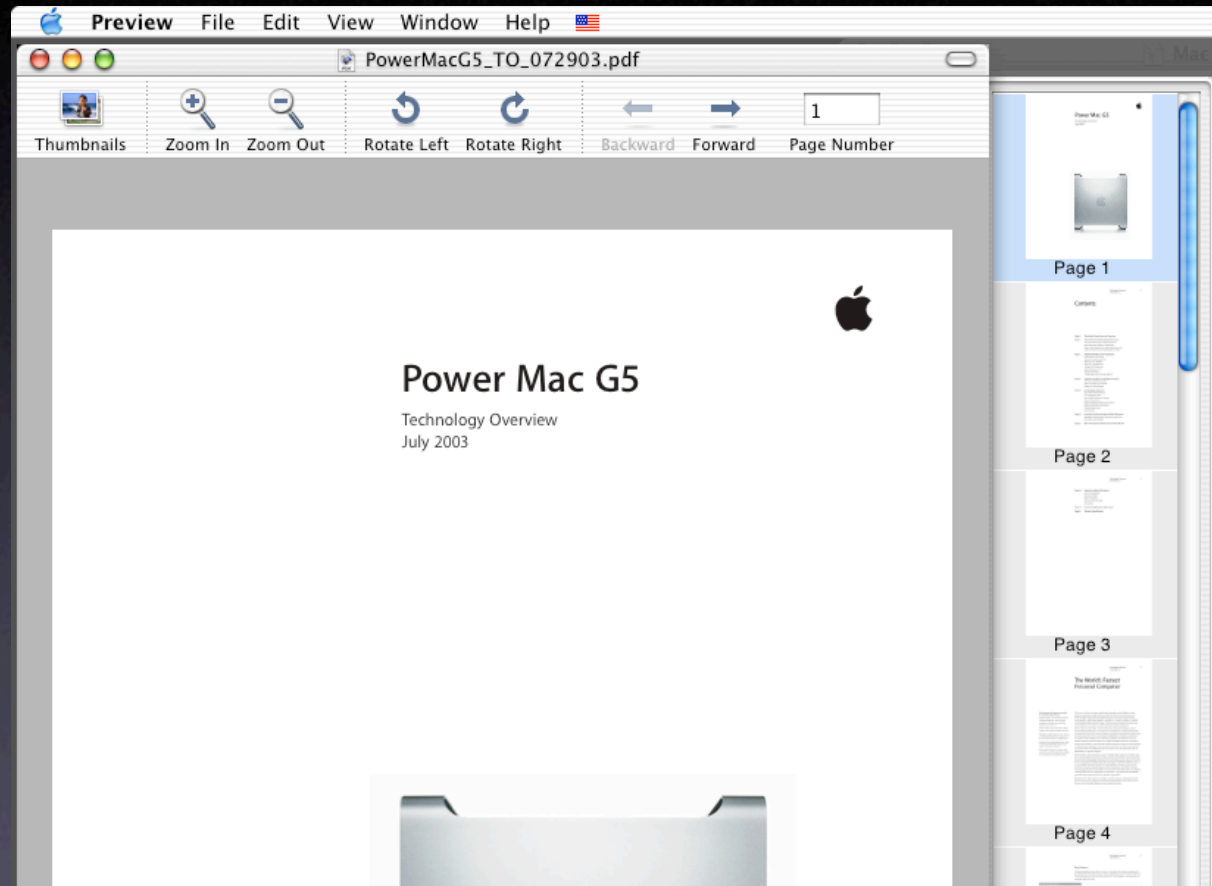


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Preview



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QuickTime Player



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Safari



The screenshot shows the Safari browser window with the URL <http://www.apple.com/> in the address bar. The browser's menu bar includes options like Store, iPod + iTunes, .Mac, QuickTime, Support, and Mac OS X. The main content area features a large advertisement for iTunes for Windows, with the headline "Hell froze over." and a "Download now" button. Below this are several promotional tiles for "Panther is coming...", "New PowerBooks", "iPod", and "Power Mac G5". At the bottom, there is a search bar, a "Site Map | Search Tips" link, and footer text including "Copyright © 2003 Apple Computer, Inc. All rights reserved." and "Powered by Mac OS X Server".

Sherlock



Sherlock - Movies

Channels Internet Pictures Stocks Movies Yellow Pages eBay Flights Dictionary Translation AppleCare

Movies Theaters U.S. City or Zip: 84112 Showtime: Today, Oct 21

Brewvies Cinema Pub
Carmike Cinemas Ritz 15 - Hollywo
Carmike Cinemas Villa
Century Century 16 Salt Lake City
Cinemark Movies 9
Cinemark Sugarhouse Movies 10
Cinemark Valley Fair Movies 9

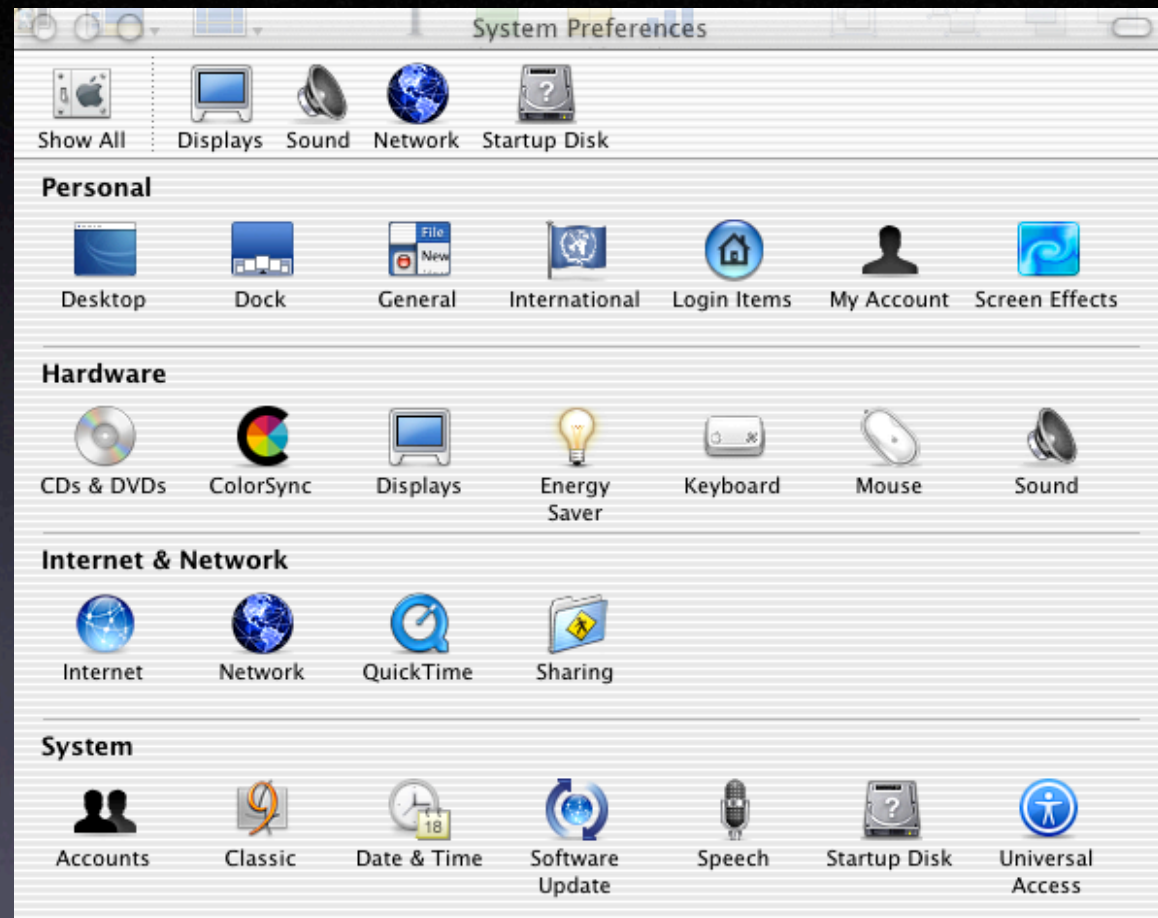
Movie Information

No Movie Selected

No Theater Selected

Content provided by moviefone

System Preferences



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TextEdit



```
Names.txt
@@@ The Unicode Standard 3.0
@@@+ Final Draft UC3M990825.lst
      More annotation fixes for Tibetan.
      Annotation added for 2231..2233.
@@ 0000 C0 Controls and Basic Latin (Basic Latin) 007F
@   C0 controls
@+  Alias names are those for ISO 6429.
0000 <control>
      = NULL
0001 <control>
      = START OF HEADING
0002 <control>
      = START OF TEXT
0003 <control>
      = END OF TEXT
0004 <control>
      = END OF TRANSMISSION I
0005 <control>
      = ENQUIRY
0006 <control>
      = ACKNOWLEDGE
0007 <control>
      = BELL
0008 <control>
      = BACKSPACE
0009 <control>
      = HORIZONTAL TABULATION
000A <control>
      = LINE FEED
000B <control>
      = VERTICAL TABULATION
000C <control>
```



Utilities



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Apple System Profiler



Apple System Profiler

System Profile | Devices and Volumes | Frameworks | Extensions | Applications | Logs

▼ Software Overview

System version: Mac OS X 10.2.8 (6R73)
Boot volume: Neuromancer
Kernel version: Darwin Kernel Version 6.8: Wed Sep 10 15:20:55 PDT 2003; root:xnu/xnu-344.49.obj~2/RELEASE
User name: Michael Yocom (mike)

▼ Hardware Overview

Machine speed: 400 MHz
Bus speed: 100 MHz
Number of processors: 1
L2 cache size: 1MB
Machine model: Power Mac G4 (AGP graphics) (version = 2.9)
Boot ROM info: 4.2.8f1
Customer serial number: XB0251A0-J2S-ffff
Sales order number: 0100237883

▼ Memory Overview

Location	Type	Size
DIMM0/J21	SDRAM	128 MB
DIMM1/J22	SDRAM	128 MB
DIMM2/J23	SDRAM	128 MB
DIMM3/J24	SDRAM	256 MB

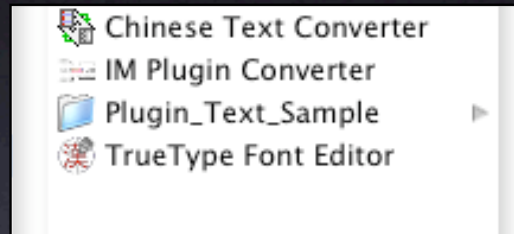
▼ Network Overview

▼ Built-in

Flags: 0x8863<Up,Broadcast,b6,Running,Simplex,Multicast>
Ethernet address: 00.30.65.79.71.62
IP: 155.99.57.240
Subnet Mask: 255.255.255.0



Asia Text Extras

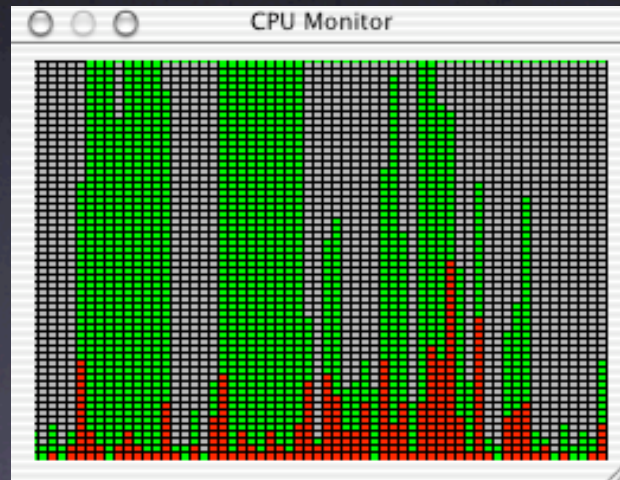


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CPU Monitor

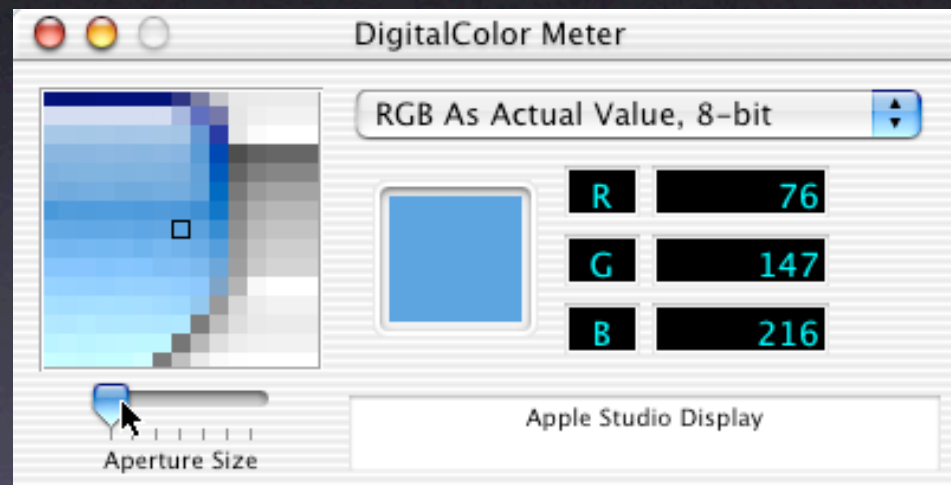


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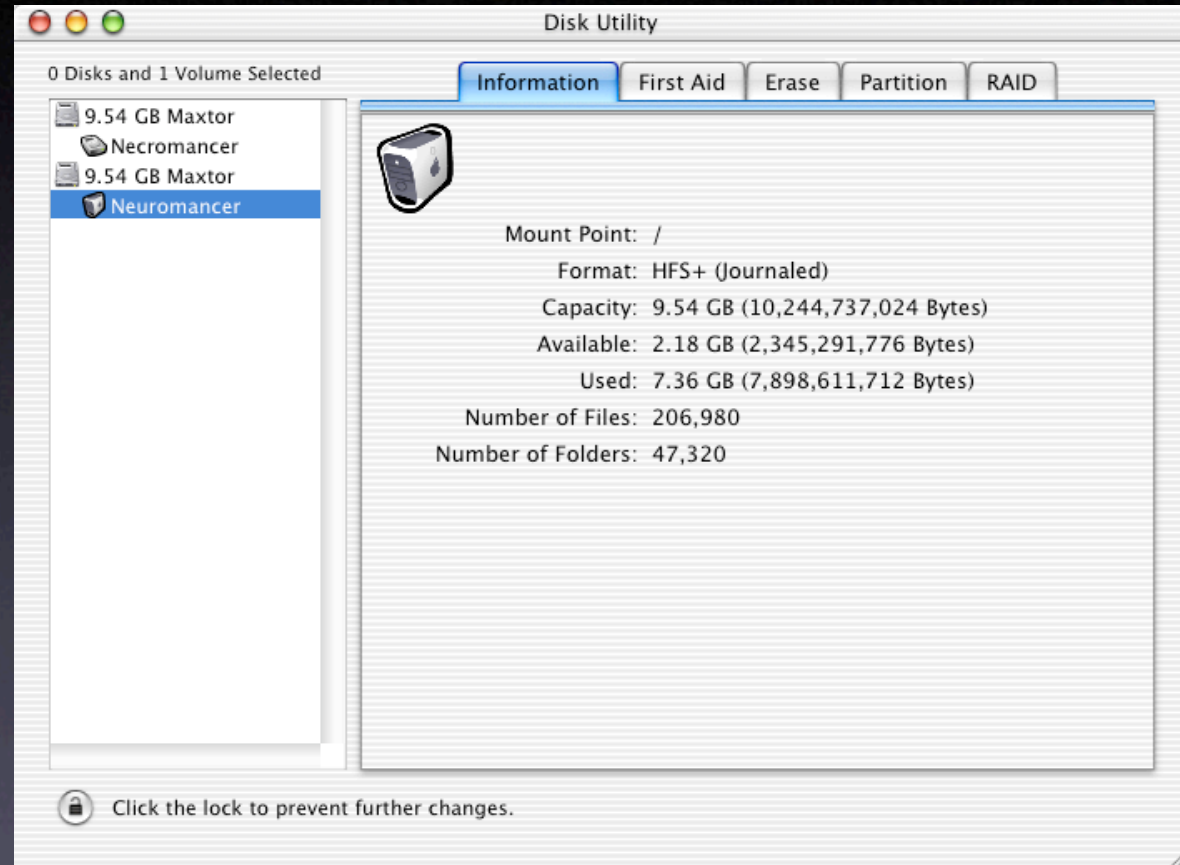
DigitalColor Meter



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Disk Utility



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Display Calibrator



Display Calibrator Assistant

Display adjustments

Before you begin calibration, you should make some initial adjustments using the controls on the front of your display.

- Introduction
- Set Up
- Native Gamma
- Target Gamma
- Tristimuli Values
- Target White Point
- Conclusion

First, you should set the contrast on your display to the highest setting.

Second, set the brightness on your display using the image on the right as a guide. Adjust the brightness so the shape in the center is barely visible and the background appears as a solid black (you don't see two halves).

too dark too bright

After you have done these steps, click the right arrow.

The image shows a software window titled "Display Calibrator Assistant" with a "Display adjustments" section. On the left is a table of contents with "Set Up" selected. The main area contains instructions for setting contrast and brightness. A moon icon represents contrast, and a sun icon represents brightness. A visual guide shows a central shape on a black background. Below are two examples: a solid black square labeled "too dark" and a square with a visible central shape labeled "too bright". Navigation arrows are at the bottom right.

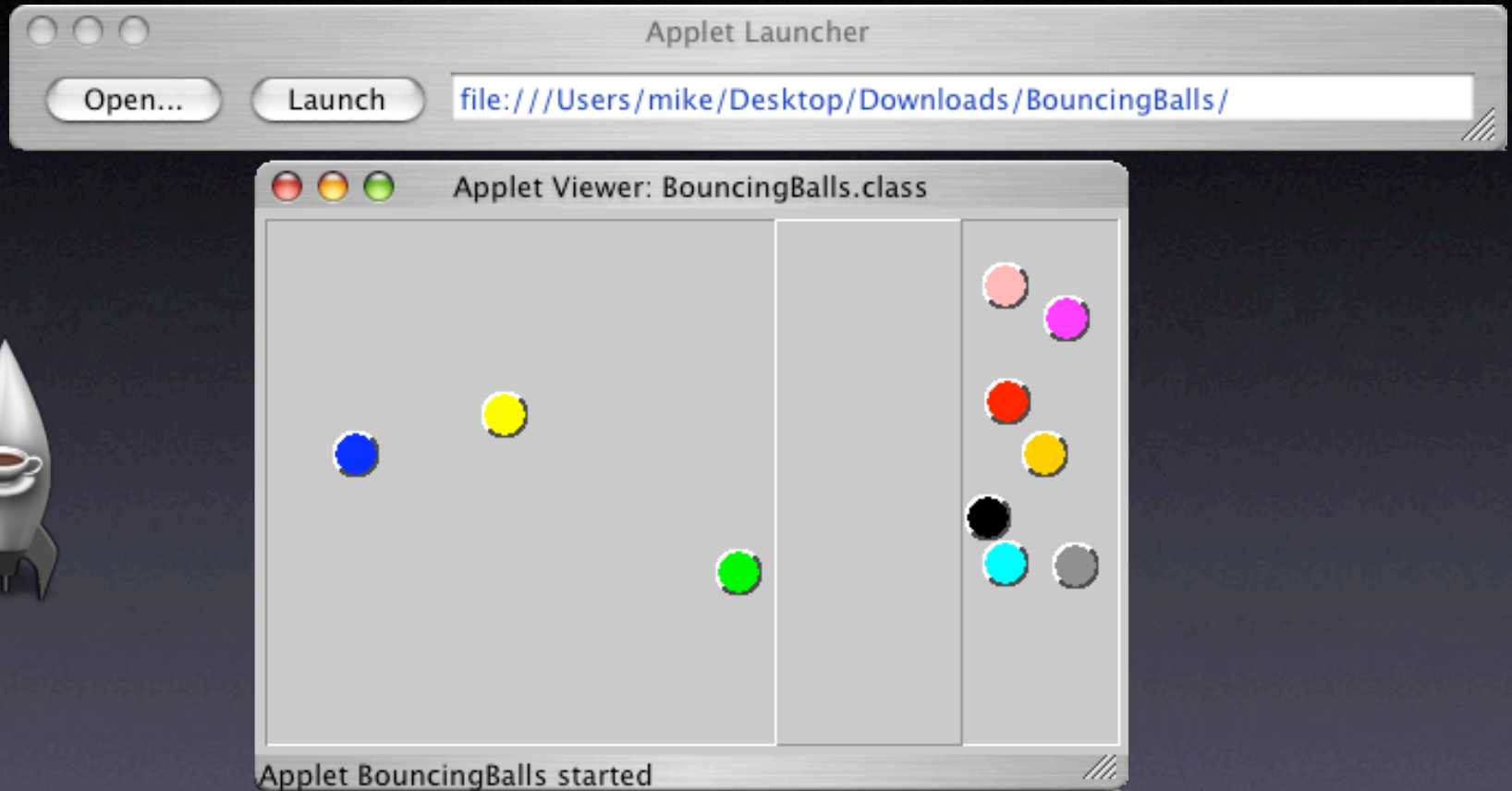
Grab



Capture	Window	Help
Selection	⇧ ⌘ A	
Window	⇧ ⌘ W	
Screen	⌘ Z	
Timed Screen	⇧ ⌘ Z	



Applet Launcher



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Key Caps



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Process Viewer



Process Listing

Find: Show: All Processes

Name	User	Status	% CPU	% Memory
AppleSpell	mike	Running	0.00	0.20
ATSServer	mike	Running	14.60	0.70
autodiskmount	root	Running	0.00	0.00
automount	root	Running	0.00	0.10
check_afp	root	Running	0.00	0.20
configd	root	Running	0.20	0.10
coreservicesd	root	Running	0.00	4.00
crashreporterd	root	Running	0.00	0.00
cron	root	Running	0.00	0.00
cupsd	root	Running	0.00	0.10
DirectoryService	root	Running	0.00	0.30
Dock	mike	Running	1.90	2.10
dynamic_pager	root	Running	0.00	0.00
Finder	mike	Running	0.00	5.60
Grab	mike	Running	0.00	0.90
Host Relauncher	root	Running	0.00	0.00
iCal	mike	Running	0.00	1.70

46 processes Sample every 20 seconds

Less Info

Process ID Statistics

No processes selected



Terminal



```
Terminal — ttyp1
[mike_main_box-1:~] mike% ls
Desktop  Documents Library  Movies   Music    Pictures Public  Sites
[mike_main_box-1:~] mike% cd ..
[mike_main_box-1:/Users] mike% ls
Deleted Users  Shared          gus              mike
[mike_main_box-1:/Users] mike% cd ..
[mike_main_box-1:/] mike% ls
Applications                TheVolumeSettingsFolder  mach
Desktop DB                   Trash                      mach.sym
Desktop DF                   Users                      mach_kernel
Developer                    Volumes                   private
Library                      automount                 sbin
Network                      bin                       tmp
System                      cores                     usr
System Folder                dev                       var
Temporary Items              etc
[mike_main_box-1:/] mike% cd bin
[mike_main_box-1:/bin] mike% ls
[      csh      echo      ln      ps      sh      test
bash   date      ed      ls      pwd     sleep  zsh
cat    dd        expr    mkdir   rcp     stty   zsh-4.0.4
chmod  df        hostname mv      rm      sync
cp     domainname kill    pax    rmdir   tcsh
[mike_main_box-1:/bin] mike%
```



Installing Applications

- Software Update
- Disk Images
- Packages
- Installer VISE
- InstallAnywhere
- Others



Cautions

- Must be an admin user
 - Person should know what they're doing
 - Normal users can't accidentally install trojan horses
 - Many installers don't really need admin rights
 - Only install trusted programs
- Many software updates cause problems
 - Wait at least a week
 - Check <http://www.MacFixIt.com> for known issues
 - When in doubt, don't upgrade yet



System Software



Software Update

- Update Mac OS X
- Update Components
- Apple Software

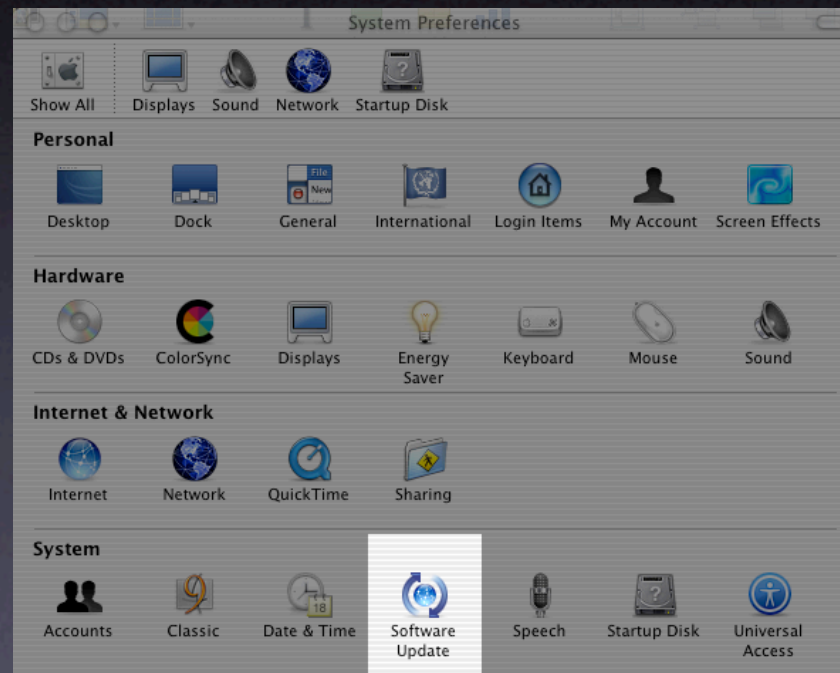


QuickTime Update



Software Update

- System Preferences
 - System
 - Software Update



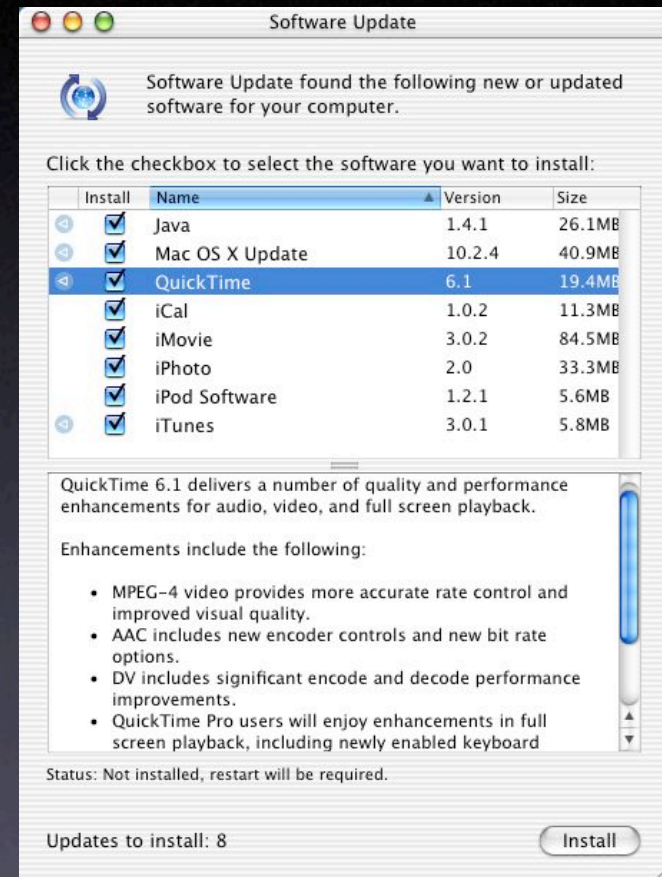
Software Update

- Options
 - When to check (if at all)
 - Check Now
 - Show Inactive Updates
 - Installed Updates



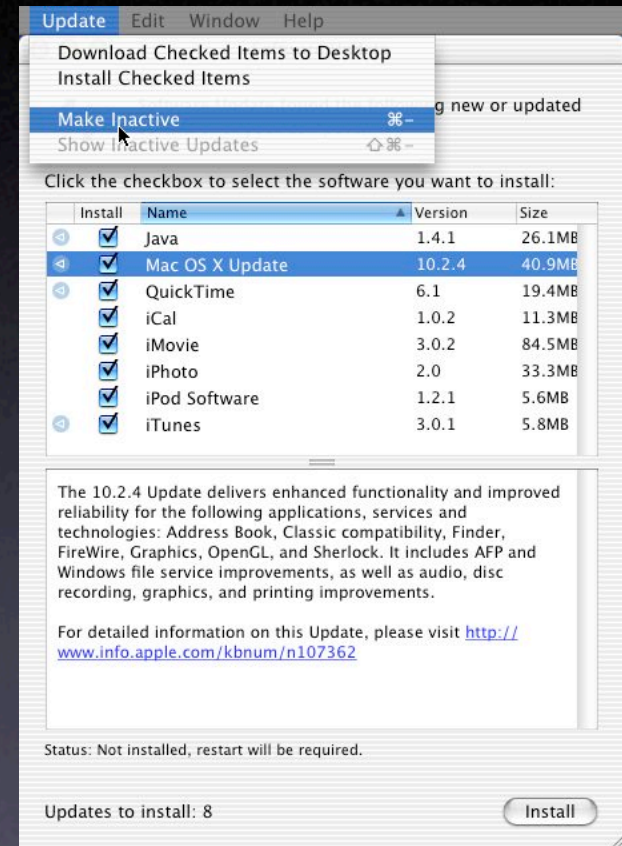
Updating

- Check desired updates
- Click Install
- Authenticate
- Triangle indicates that restart is required



Inactive Updates

- Inactivating
 - Select update
 - Update ⇨ Make Inactive
- Reactivating
 - Select from Inactive List
 - Update ⇨ Make Active



Demo Software Update



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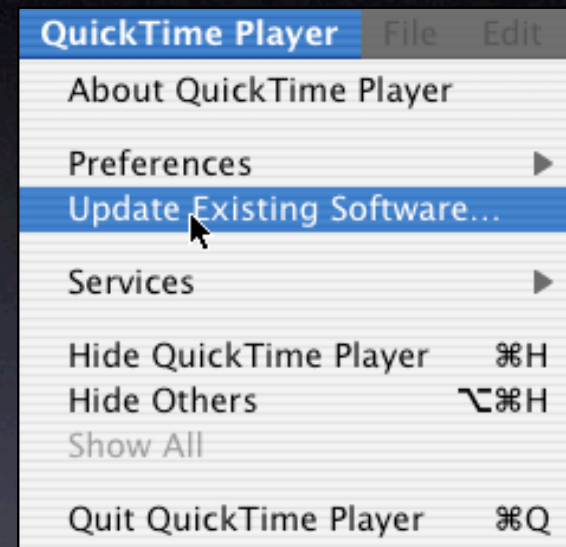
QuickTime Update

- QuickTime has own updater
 - Probably because QuickTime Pro is commercial



QuickTime Update

- System Preferences
 - QuickTime
 - Update
- QuickTime Player
 - QuickTime Player menu
 - Update Existing Software...



Where to Find Updates

- Web Sites
 - <http://www.versiontracker.com>
 - <http://www.macupdate.com>
 - <http://www.sourceforge.net>
 - <http://www.google.com>
- Software
 - Software Update
 - QuickTime Update
 - VersionTracker Pro X
- Other



Where to Purchase Software

- Campus
 - Office of Software Licensing (OSL)
 - Bookstore
- Local
 - Software and More
- Online
 - <http://macworld.pricegrabber.com>



Installer Types



Disk Images

- .dmg



Packages

- .mpkg
- .pkg



Installer VISE

- InstallAnywhere



Disk Images

- Installing from a disk image
 - Disk Image: .dmg
 - Mac OS X treats mounted .dmg like a disk
 - Drag from mounted image to Applications folder



Demo Disk Images

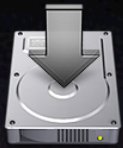


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Packages



/Applications/Utilities/Installer.app

- Installs Packages
 - .mpkg
 - .pkg
- Custom Installs



Demo Packages



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Installer VISE

- Common third-party installer
- Used for older Mac programs
 - May launch in Classic if an old program



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Demo Installer VISE



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InstallAnywhere

- Designed for Java-based applications
- “Write once, run anywhere”



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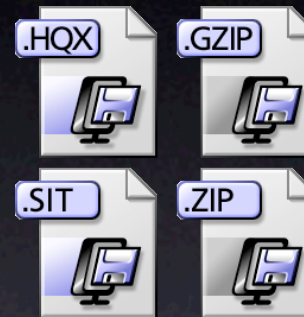
File Formats

- Encoded
- Compressed



File Formats

- BinHex (.hqx)
- GZip (.gz, .tgz)
- StuffIt (.sit)
- Zip (.zip)
- Disk Images (.dmg)

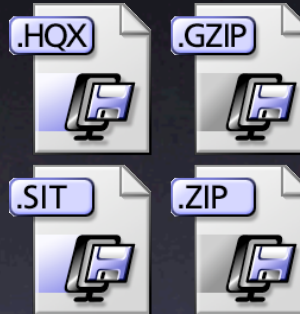


Accessing



StuffIt Expander

- .sit
- .gz
- .tgz
- .zip
- .hqx



Disk Copy

- .dmg



Classic



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What Classic Is

- Emulation Environment
- Runs Mac OS 9.x within Mac OS X 10.x
 - Public Beta: 9.0.4
 - 10.x: 9.1 (9.2.2 is recommended)



Why Use Classic

- Old programs that haven't been ported
- Ports that are expensive



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Why NOT Classic

- None of the Mac OS X advantages
- Lack of support



Requirements

- Mac OS 9.1.x (9.2.2 recommended)
- 256 MB RAM
- 400 MHz G3



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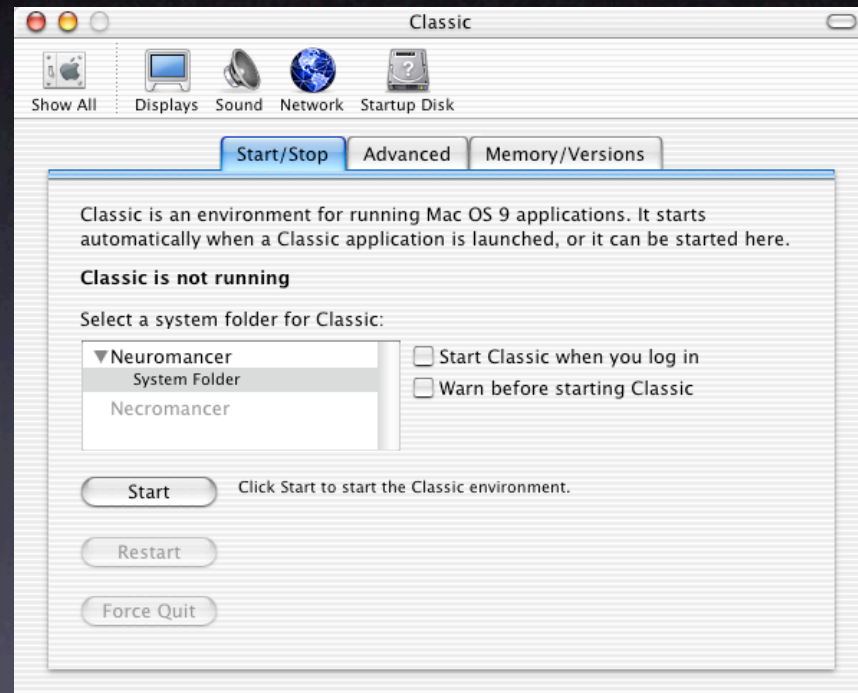
Installation

- Boot to Mac OS 9 CD
- Possible to install Classic within Classic
 - Upgrades



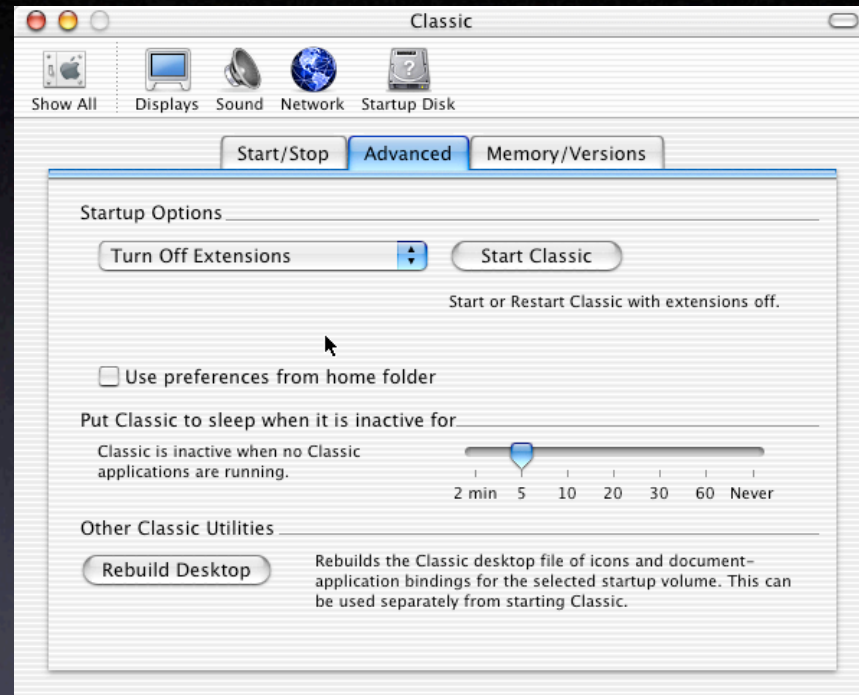
Setting Up

- System Preferences
- Classic pane
- Specify which System folder



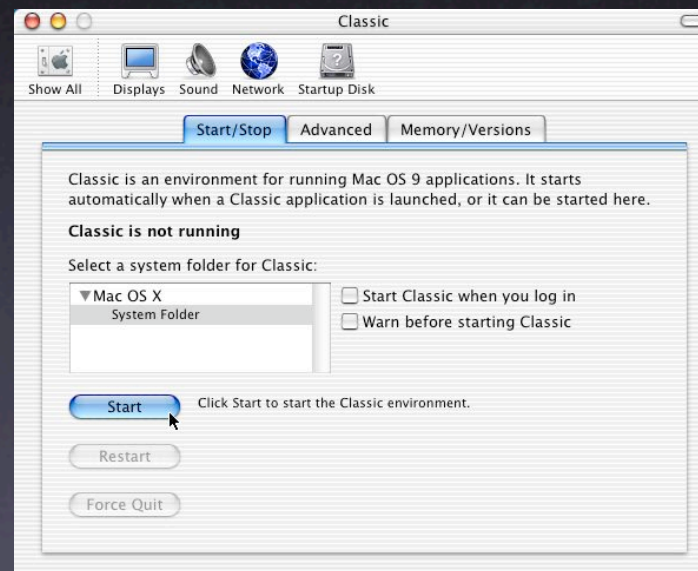
Optimizing

- Extensions
 - Off
 - On
 - Manage
- Preferences
- Sleep
- Rebuild (Classic) Desktop



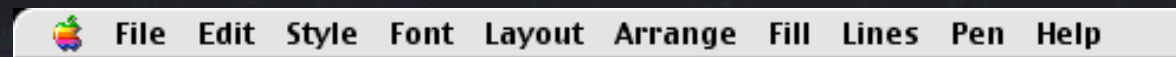
Launching

- Double-Click on Classic application
- System Preferences
 - Start
 - Start at login

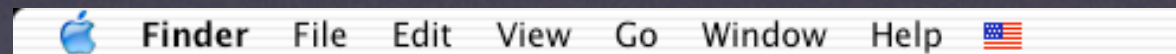


Interface

- Mac OS 9
 - Platinum

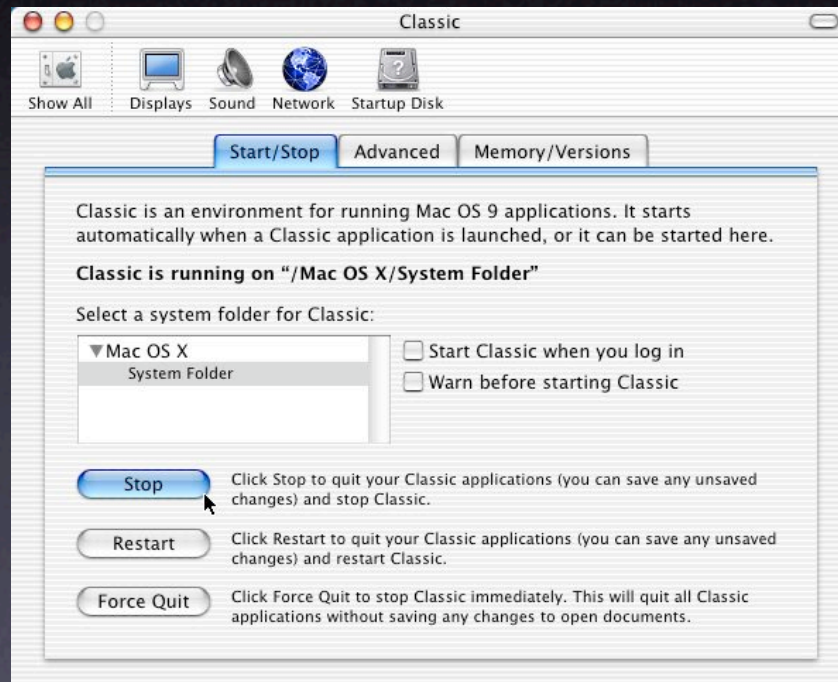


-
- Mac OS X
 - Aqua



Stopping Classic

- System Preferences
- Classic pane
 - Stop
 - Restart
 - Force Quit



Dual Booting

- Not supported on current hardware
- Mac OS X
 - System Preferences
 - Startup Disk
- Mac OS 9
 - Control Panels
 - Startup Disk



Printers



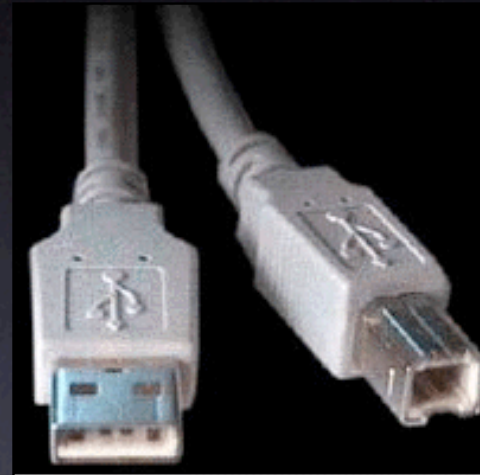
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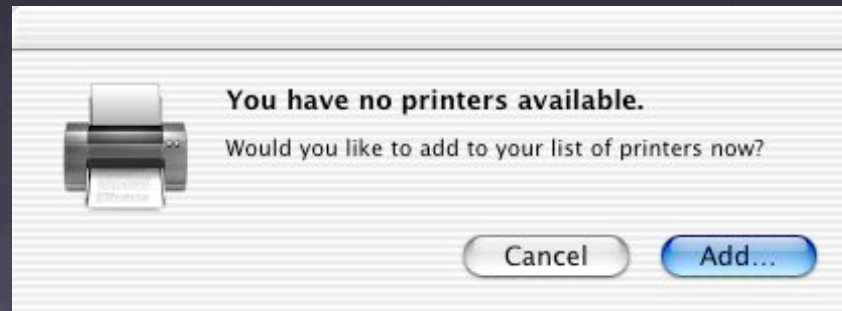
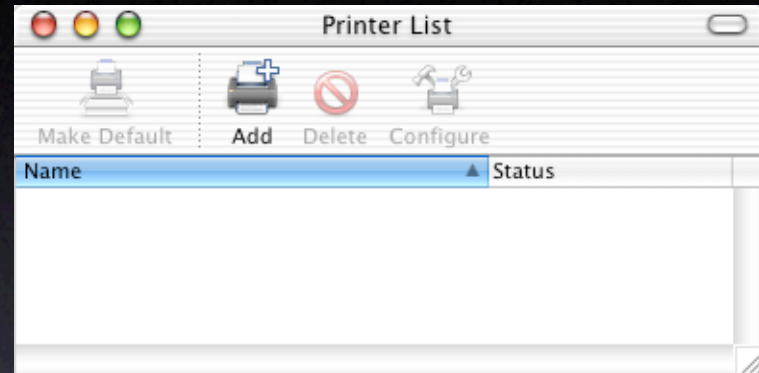
Setting Up

- Local
 - USB
- Network
 - Ethernet



Setting Up

- Print Center
 - Click “Add”
 - Select connection type
 - AppleTalk
 - Directory Services
 - IP Printing
 - Rendezvous
 - USB



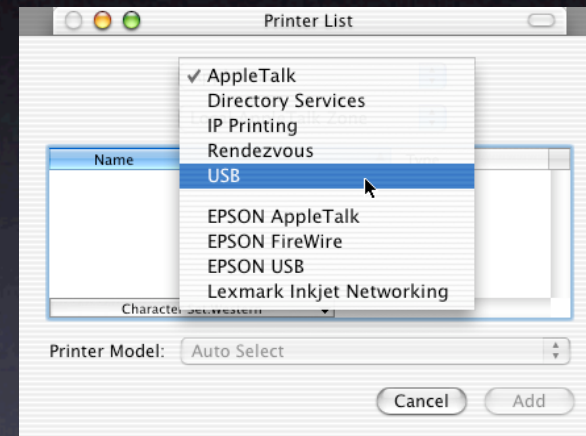
Setting Up

- USB, Directory Services, Rendezvous

- Select Printer
- Click “Add”

- AppleTalk

- Select Zone
- Select Printer
- Click “Add”



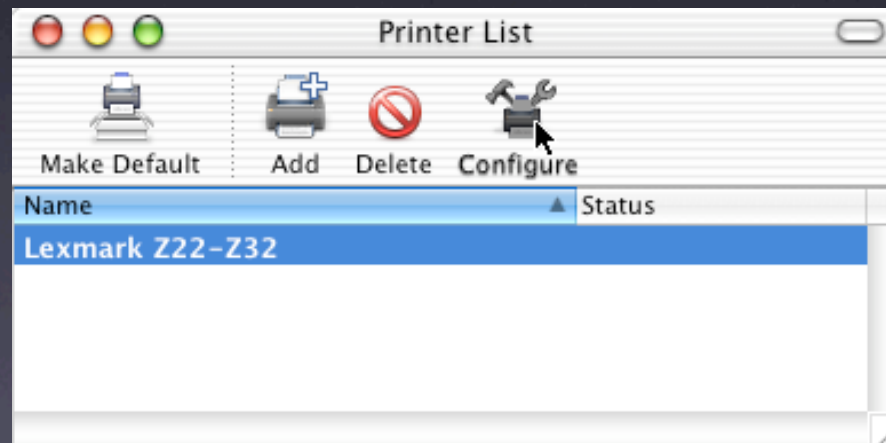
- IP and Directory Services

- Enter IP or DNS
- Select Queue
- Click “Add”



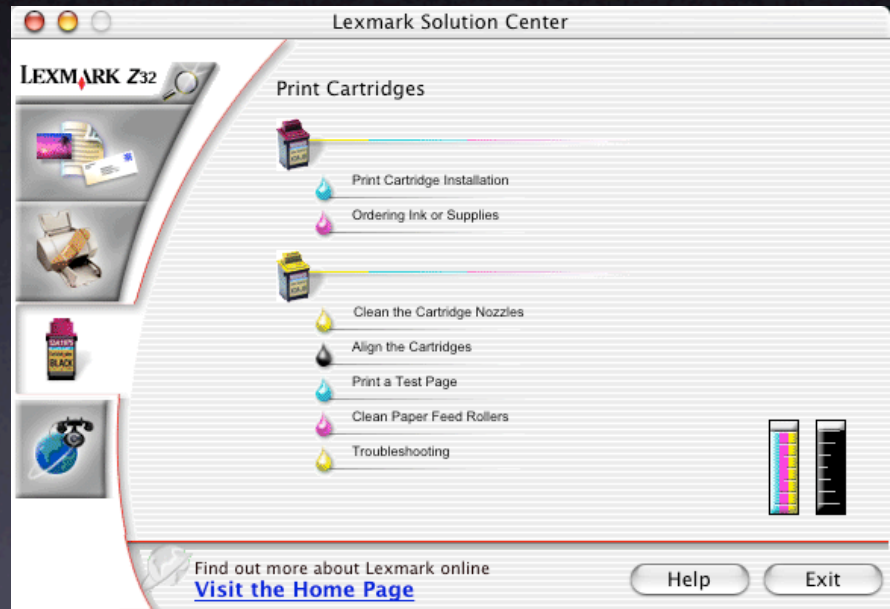
Configuring

- Print Center
 - Select Printer
 - Click Configure



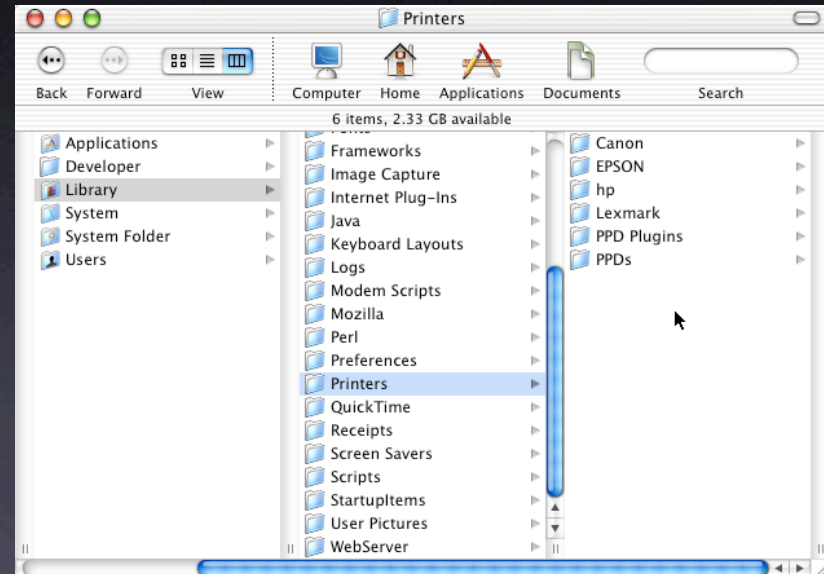
Configuring

- Documentation/troubleshooting
- Check ink levels
- Change cartridges
- Calibrate
- Clean



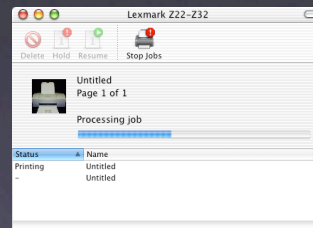
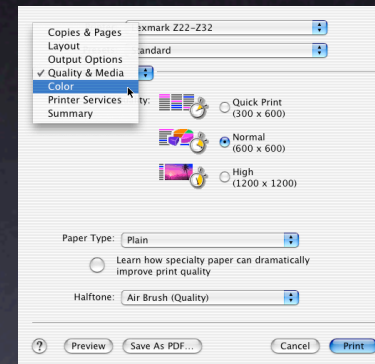
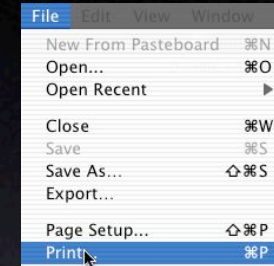
Print Drivers

- Stored in /Library/Printers
- If none installed
 - Printer manufacturer's website
 - GIMP-Print if no Mac drivers



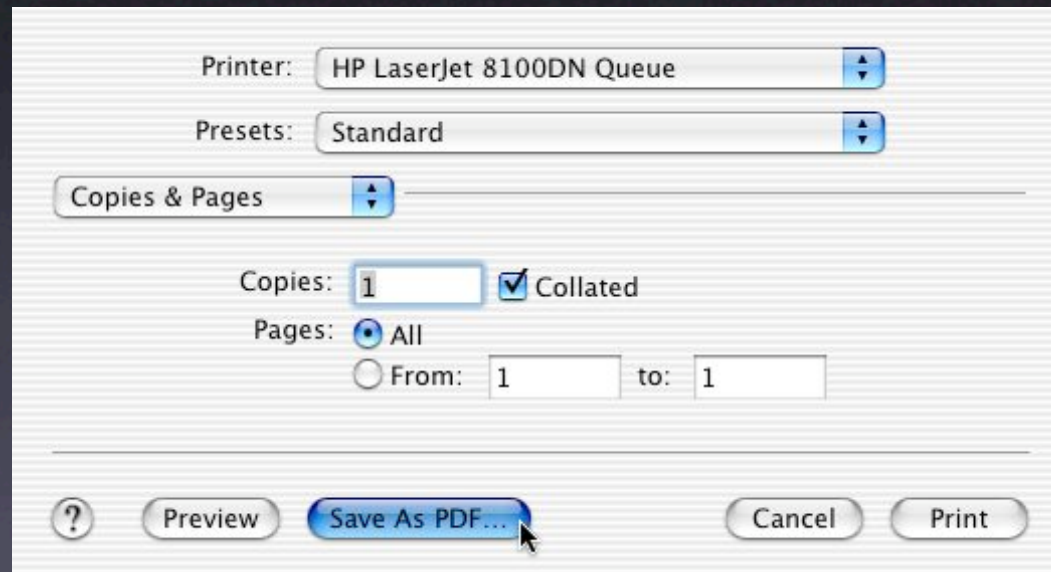
Printing

- File ⇒ Print or ⌘P
- Select Options
- Click “Print”
- Print Center
 - Delete
 - Hold
 - Resume



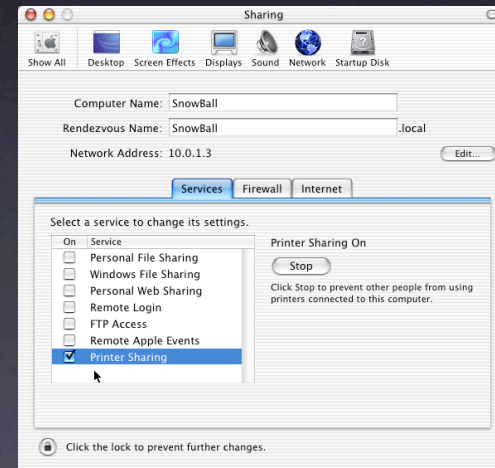
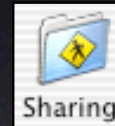
Save as PDF

- File ⇒ Print or ⌘P
- Click on “Save as PDF...”



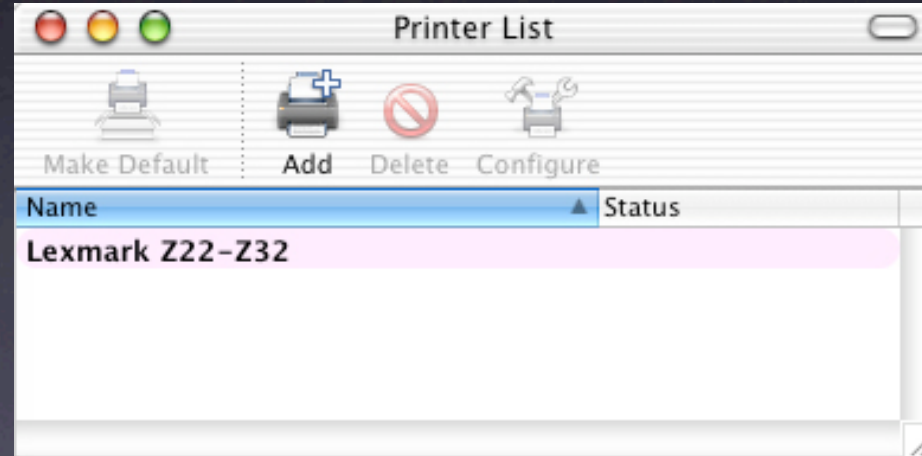
USB Print Sharing

- Computer Connected to USB Printer
 - System Preferences
 - Sharing
 - Enable Printer Sharing
 - Administer via Print Center



USB Print Sharing

- Other Mac OS X Computers on Network
 - Printer automatically appears in Print Center
 - Can't administer



Next Class

- Mac OS X Part 5
 - Friday, October 31, 2003
 - 9:00 AM — 10:30 AM
 - MMC 1745



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Survey

How did we do?

Please take a minute to fill out the survey.



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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.”



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Questions and Answers



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