



# UNIVERSITY OF UTAH

M a c i n t o s h M a n a g e r M e e t i n g

## Macworld SF 2003 Overview

By  
Richard Glaser  
University of Utah  
Student Computing Labs



# Keynote

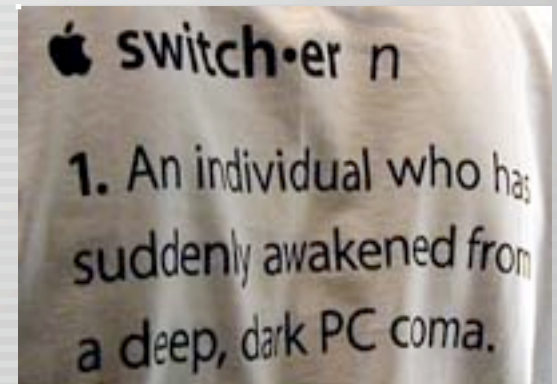
People....



MSN? No...  
Just a Mac User ;-)



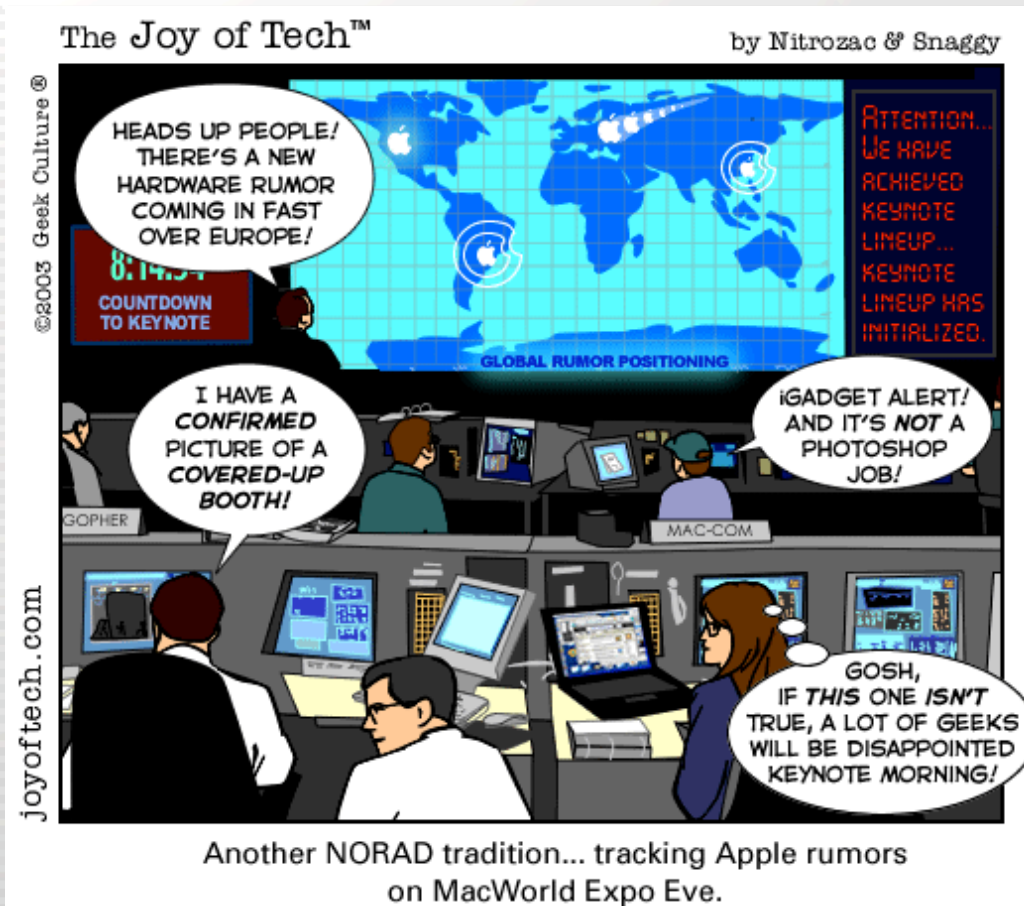
Portable Loser  
Hey, I was one of them?



Switchers

# Keynote

Rumors, rumors and more rumors...



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Macintosh Manager Meeting

# Keynote

Less notable topics

- Switcher campaign – Best that Apple's Done
- Revenue – Apple Stores \$148 Million
- .mac – 250,000 paying subscribers
- iPod – 42% Market share in Japan
- Office Party – Buy a Mac get \$300 off
- QuickBooks Pro – Started shipping
- iLife – iPhoto 2, iMovie 3 & iDVD 3



# Keynote

## Burton Amp Jacket

### Get Amped

Burton Snowboards partners with Apple to create the Burton Amp, the first and only jacket that controls an iPod through the touch of a sleeve—no more fumbling with zippers, gloves and pockets.



Burton Amp \$499

Choose Size

See size chart

Add to Order

#### Size Chart

Body Width	Sleeve Length	
46	35	S
49	36	M
52	37	L
55	38	XL

measurements in inches



Constructed from 3L GORE-TEX fabric you can be sure that you will stay dry in the worst conditions, the breakthrough Amp jacket steps up the tech to unprecedented levels, offering snowboarders a jacket designed to control the iPod in the chest pocket.



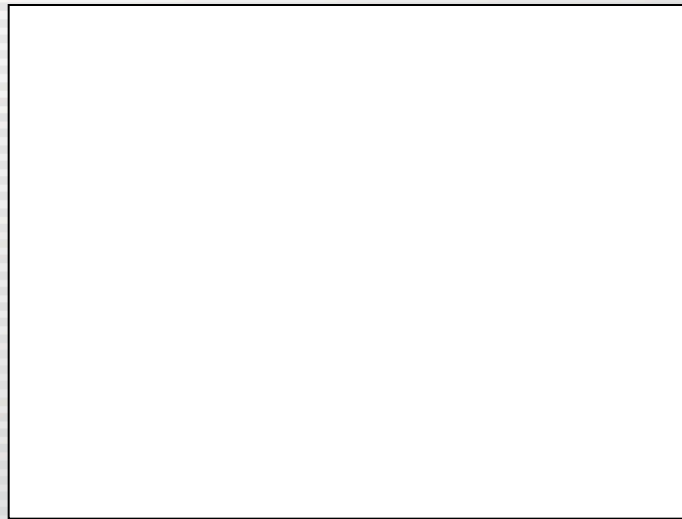
Just touch the control pad on the jacket sleeve to change songs or volume levels. By collaborating with SOFTswitch, a company that makes fabrics touch sensitive and interactive, we were able integrate a textile data strip directly into the fabric of the jacket sleeve.



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# Keynote

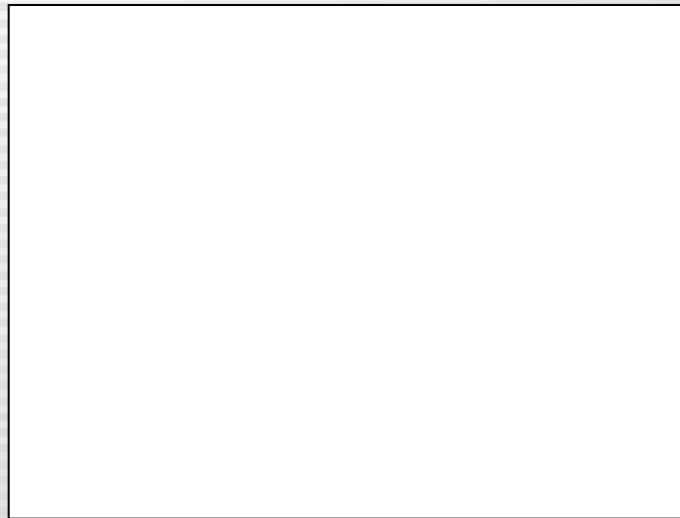
Burton Amp Jacket



iPod, Skiing & Snowboarding – 1 Min 3 Sec

# Keynote

ProTools for Mac OS X

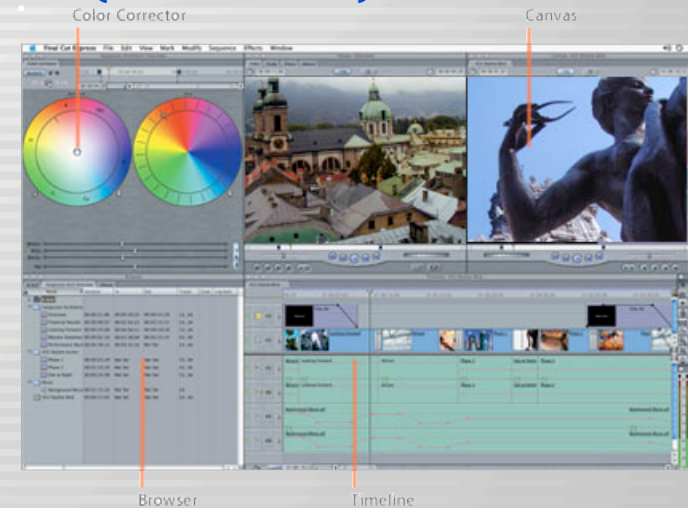


Dave Lebolt from Digidesign

# Keynote – New PowerBooks

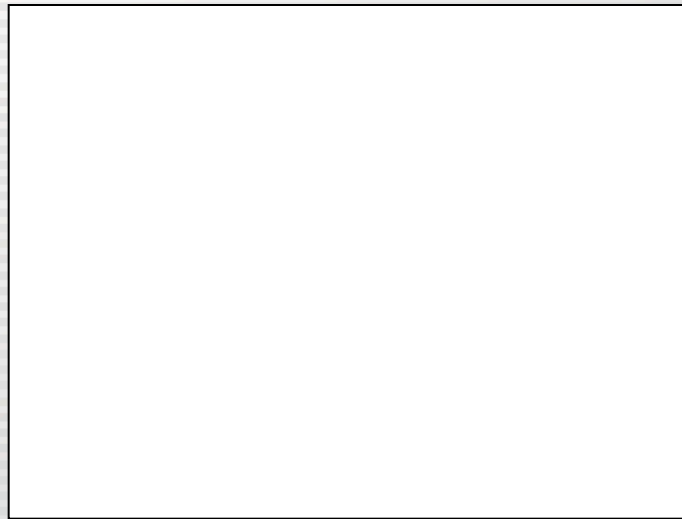
Final Cut Express – Pro Video Tools at a affordable price

- Optimized for the DV25 format: MiniDV and DVCAM (NTSC or PAL)
- Integrated compositing and effects
- Robust real-time preview of effects
- High-quality DV YUV-based effects rendering
- Exports DVD Studio Pro iDVD chapter markers
- Imports layered Photoshop files and many other graphic files
- Real-time audio mixing and audio effects
- Compatible with Final Cut Pro for easy upgrade
- Price – \$149



# Keynote

Final Cut Express – Keynote Presentation



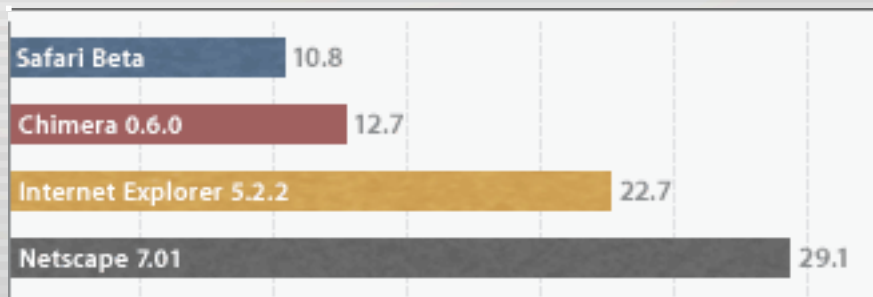
Phil Schiller from Apple Computer



# Keynote – New Browser

## Safari – AKA CyberDog 3

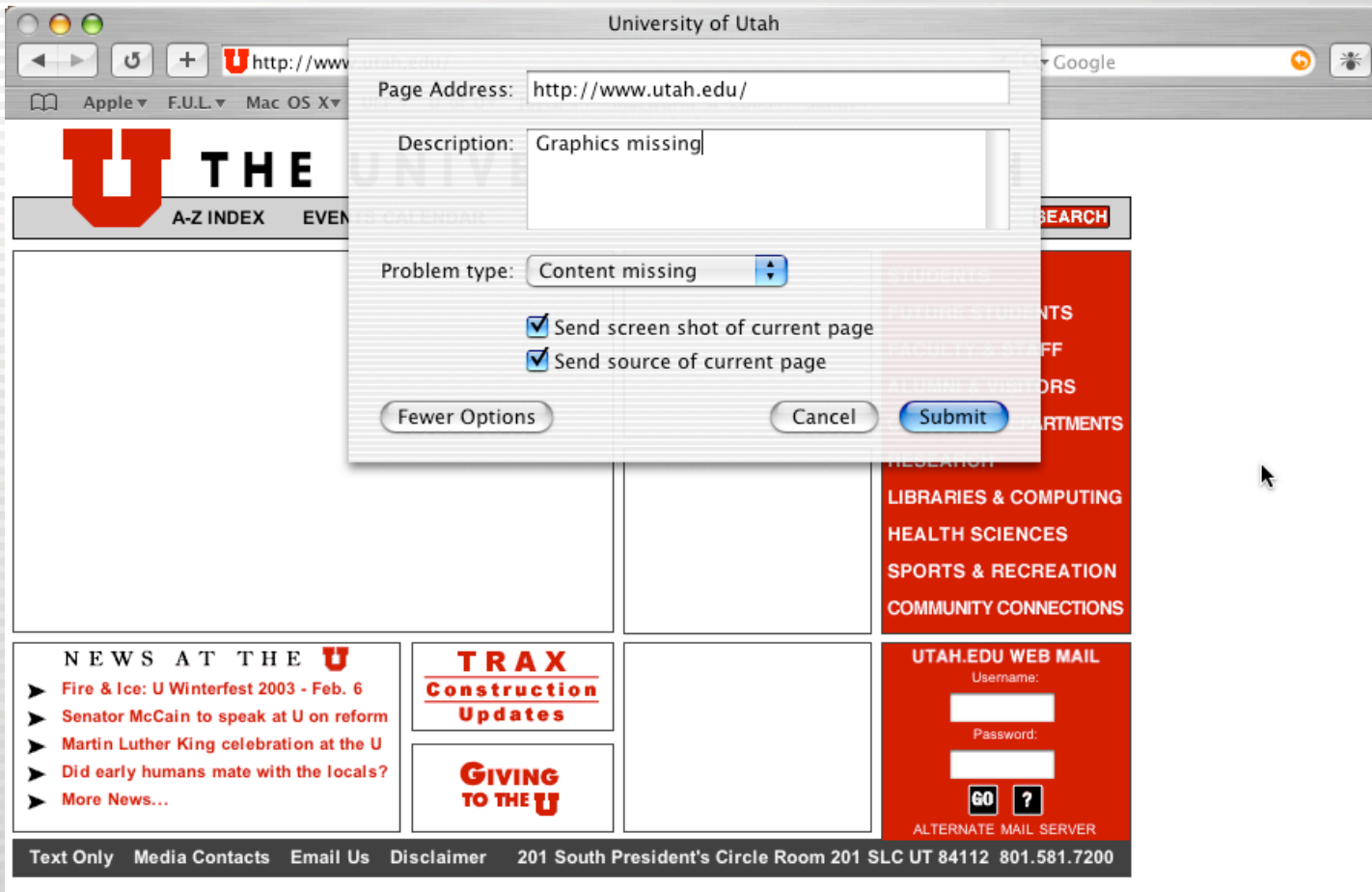
- Speed – The fastest Mac browser
- Google – Built-in Google Search
- Snapback – Returns you to last address you typed
- Bookmarks – Library, Naming Sheet, Shuffle
- Pop-Ups – Stops pop-up advertisement windows
- Bug Button – Send feedback & bugs to Apple
- Rendezvous – Uses it to find web address on network
- Open Source – Based Konqueror Code



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# Keynote – New Browser

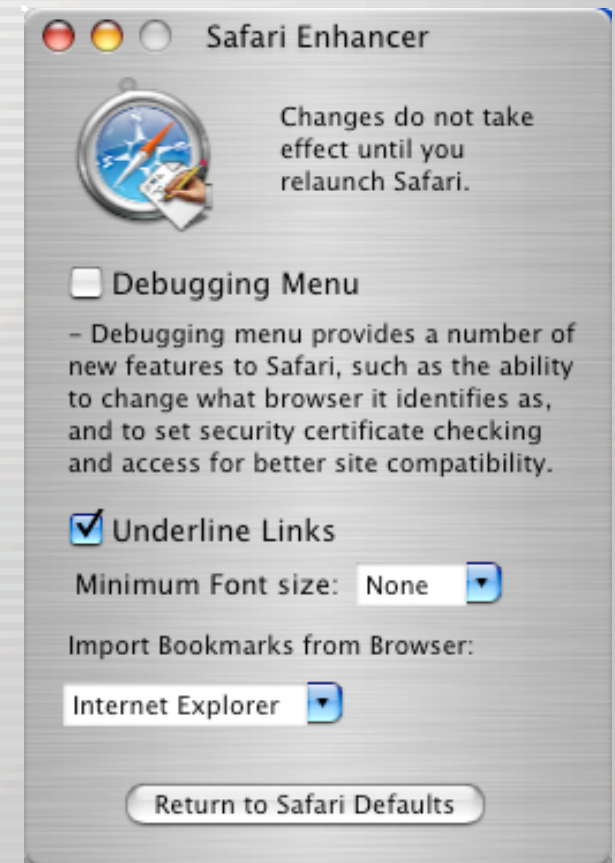
Safari – Bugs hits close to home 8–(



# Keynote – New Browser

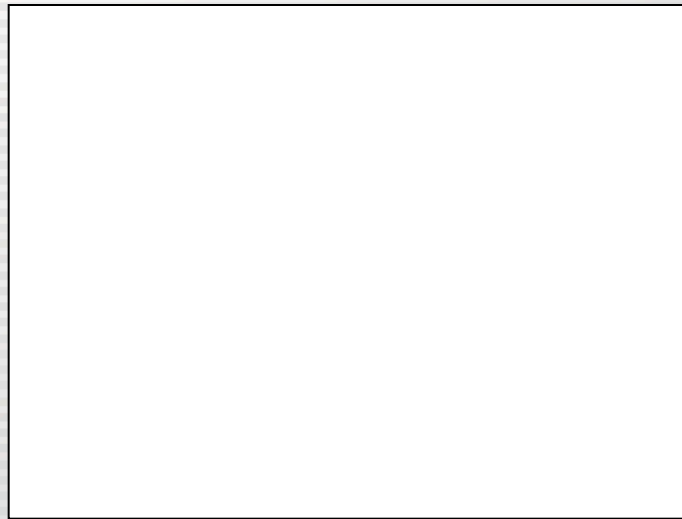
## Safari – Helper Applications

- **Safari Enhancer**
  - Enables debugging menu
  - Browser Identity
  - Import Bookmarks
  - Specify minimum fonts
  - Remove underlines for links
- **FullScreenSafari.ape**
  - Prevents Cascading



# Keynote – New Browser

Safari – The turbo browser for Mac OS X

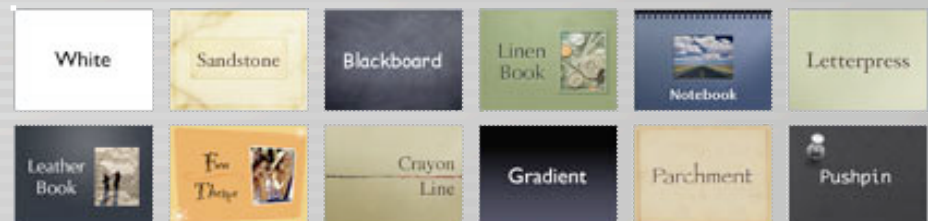
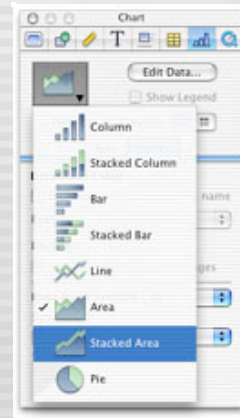


Steve Jobs from Apple Computer – 10 min 45 Secs

# Keynote – New Presenter

## Keynote – The PowerPoint Killer?

- Imports & Exports
  - Imports PowerPoint & AppleWorks Presentation
  - Imports QuickTime, PDF, Flash, Photoshop, MP3 Audio, & other formats
  - Exports PDF and QuickTime
- Pro Quality Graphics
  - Resizing & Rotation
  - Alpha Channel Composite
  - Smooth 2d & 3d Transitions
- Themes
  - 12 pre-designed themes
- Charts & Tables
  -





# Keynote – New PowerBooks

## PowerBook G4 12”

- Processor 867 MHz PowerPC G4
- RAM 256 MB, expandable to 640 MB
- Video NVIDIA GeForce4 440 Go
- Storage
  - 40 GB HD
  - Slot-loading Combo drive (DVD-ROM/CD-RW)
  - Optional slot-loading SuperDrive (DVD-R/CD-RW)
- Communications
  - Optional AirPort Extreme Card
  - Bluetooth 1.1
  - Built-in 10/100 Ethernet & 56K V.92 Modem



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Macintosh Manager Meeting

# Keynote – New PowerBooks

## PowerBook G4 12”

- Expansion
  - One FireWire 400 port at up to 400 Mbps
  - Two 12-Mbps USB 1.1 ports
- Audio
  - Audio line in (minijack)
  - Headphone out (minijack)
  - Built-in stereo speakers with midrange-enhancing third speaker
  - Internal omnidirectional microphone
- Size
  - H: 1.18 inches, W: 10.9 inches, D: 8.6 inches
  - Weight: 4.6 pounds
- Doesn't include backlit Keyboard 8-(



# Keynote – New PowerBooks

## PowerBook G4 17”

- Processor 1GHz PowerPC G4
- RAM 512 MB, expandable to 1 GB
- Video NVIDIA GeForce4 440 Go
- Storage
  - 60 GB HD
  - Slot-loading SuperDrive (DVD-R/CD-RW)
- Communications
  - Built-in AirPort Extreme Card
  - Bluetooth 1.1
  - Built-in 10/100 Ethernet
  - Built-in 56K V.92 Modem



# Keynote – New PowerBooks

## PowerBook G4 17”

- Expansion
  - One FireWire 400 Mbps port
  - One FireWire 800 Mbps port
  - Two 12-Mbps USB 1.1 ports
  - One PC Card/CardBus Type II card slot
- Audio
  - Audio line in (minijack)
  - Headphone out (minijack)
  - Built-in stereo speakers with midrange-enhancing third speaker
  - Internal omnidirectional microphone



# Keynote – New PowerBooks

## PowerBook G4 17”

- Size
  - H: 1.0 inches, W: 15.4 inches, D: 10.2 inches
  - Weight: 4.6 pounds
- Keyboard
  - Illuminated fiber-optic backlit keys
  - Solid-state trackpad

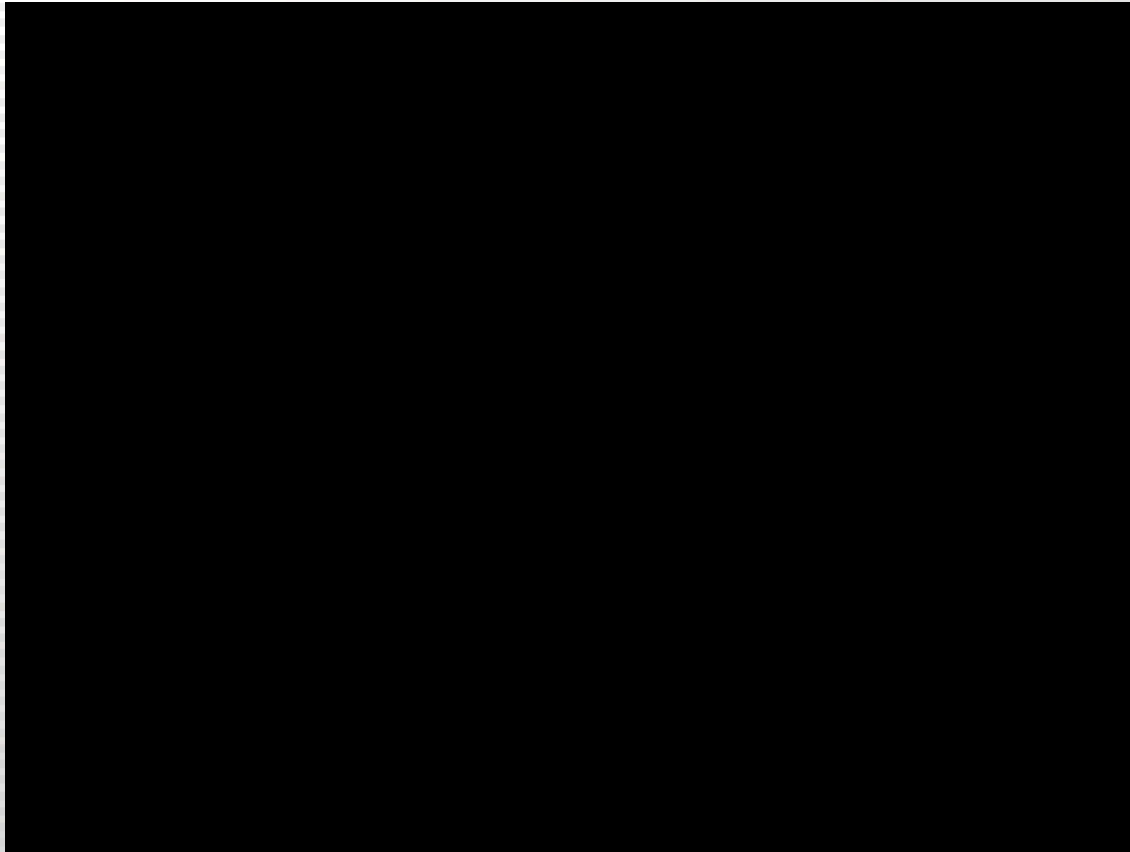


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# Keynote – New PowerBooks

The New Ad – Big & Small



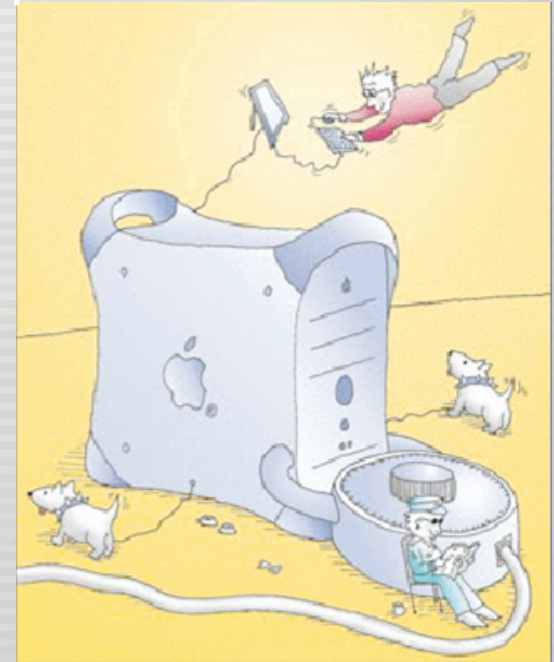
Yao Ming (Houston Rockets Center) and Verne Troyer (Mini Me)



# Notable Sessions

## Internet Security for the Rest of Us

- **Mac & Broadband Focused**
- **Individual point of view**
- **Mac OS 8/9**
  - **Security Advantages**
    - **Smaller Numbers**
    - **Proprietary Code**
    - **Single User**
  - **Be aware these “Classic” services can be turned on under Mac OS X**
- **Mac OS X Doesn't Have These Advantages**

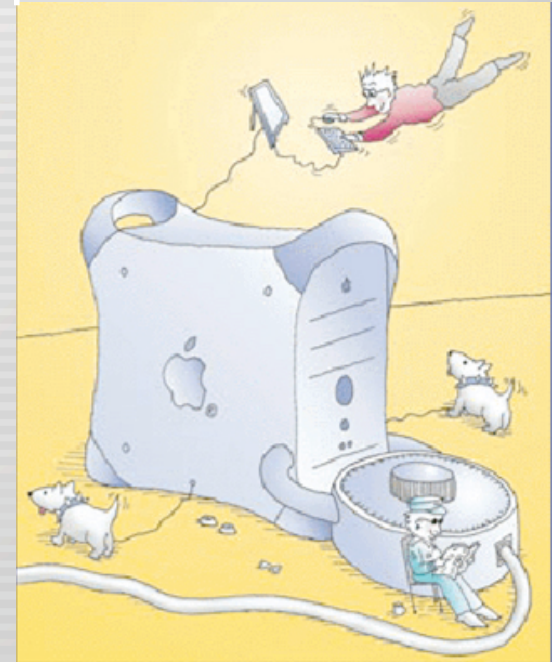


# Notable Sessions

## Internet Security for the Rest of Us

- **Broadband Issues**

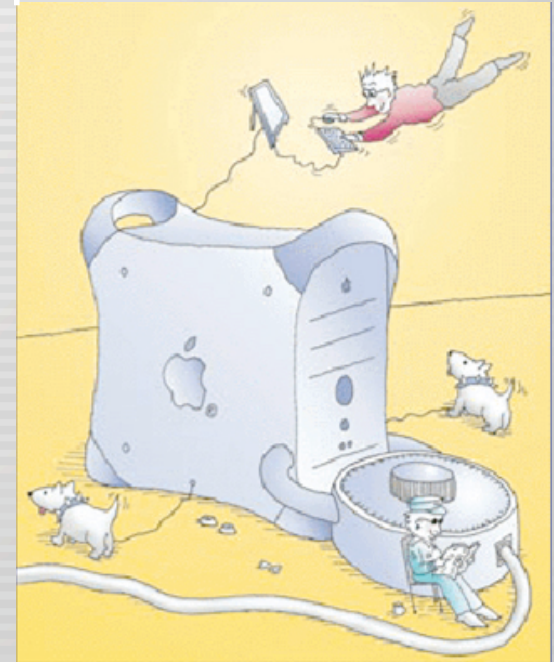
- **Permanent Connection and high-speed**
- **Semi-static IP address**
  - You usually get same IP even with DHCP
- **Physical Security (Theft, Fire)**
  - More likely than Internet attack
- **Backup very important**
  - Local & Remote – iDisk very useful for this.



# Notable Sessions

## Internet Security for the Rest of Us

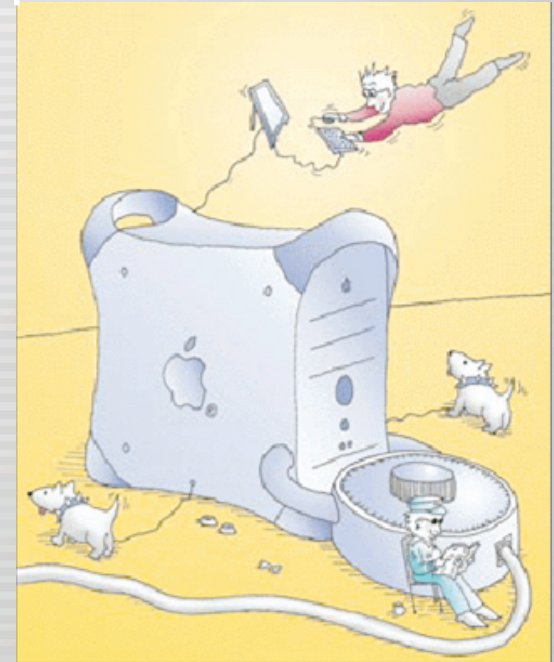
- **KeyChain**
  - Use different passwords for different services
  - Don't autologin
  - Don't unlock KeyChain on login
  - Use different password
- **Mac OS X Firewall**
  - Host specific (versus network)
  - Doesn't do logging
  - Doesn't allow/deny access from IP address
  - Doesn't allow/deny access to services



# Notable Sessions

## Internet Security for the Rest of Us

- **IPFW**
  - Accessible through CLI
  - Difficult to setup
  - Can use GUI like
    - NPF, Brickhouse
- **Or other methods**
  - Who's There? for Mac OS X
  - FireWalk X
- **Book**
  - Internet Security for Your Macintosh:  
A Guide for the Rest of Us
  - [www.opendoor.com](http://www.opendoor.com)





# Notable Sessions

## Taking Command of Mac OS X – Scripting Options

- **UNIX**
  - Shell
  - Perl, alternative Unix scripting language
  - Ruby, alternative Unix scripting language Included with Mac OS
  - BBEdit, text editor for writing Unix shell scripts and Perl scripts
- **Scripting: Internal**
  - Microsoft Word, internally/externally scriptable word processor
  - FileMaker Pro, internally/externally scriptable database
- **Scripting: External**
  - AppleScript, OSA scripting language for encoding Apple events
  - Script Editor, app for writing and running OSA scripts
  - Script Debugger, scriptable app for writing, debugging, and running AppleScript scripts

# Notable Sessions

## Taking Command of Mac OS X – Scripting Options

- **Macro**
  - QuicKeys X, generates sequences of keystrokes and mouse clicks
  - AppleScript, GUI Scripting–System Events (Sal Soghoian)
- **Programming**
  - REALbasic, cross-platform object-oriented application builder
  - Cocoa, OS X-only object-oriented application framework
  - AppleScript Studio, extension to Cocoa using AppleScript language Included with Mac OS X as of 10.1.2 (developer tools)
- **Showed examples of using each method**
  - Having AppleScripts run shell/perl scripts
  - Having shell/perl script run Applescripts
  - Combining with internal/external options
  - Or writing your own programs.

# Notable Sessions

## Taking Command of Mac OS X – Scripting Options

The screenshot displays a Mac OS X desktop environment. In the background, a Microsoft Word window titled 'Word98rev.txt' is open, showing a document with the title 'A Word to the Wise - Word 98, That Is' and a paragraph of text. In the foreground, a Ruby script window titled 'histoChart.ruby' is open, showing the following code:

```
class Histogram
  def initialize
    @text = ''
    @analysis = {}
  end

  def analyze(text)
    @text = text
    @analysis = {}
    @text.each_line do |line|
      line.split.each do |word|
        word = word.downcase
        @analysis[word] ||= 0
        @analysis[word] += 1
      end
    end
  end

  def most_frequent
    @analysis.sort.reverse.first(30)
  end
end
```

A terminal window titled 'Terminal - tcsh - tcsh' is also open, showing the execution of the script:

```
Yes, Matt? ./histoChart.ruby
File to analyze:
Word98rev.txt
Yes, Matt?
```

The terminal output shows the results of the script, including a table of the 30 most frequent words and a horizontal bar chart.

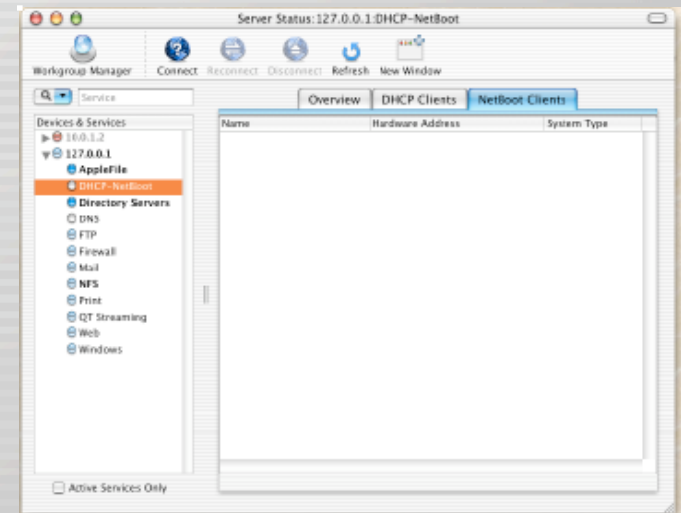
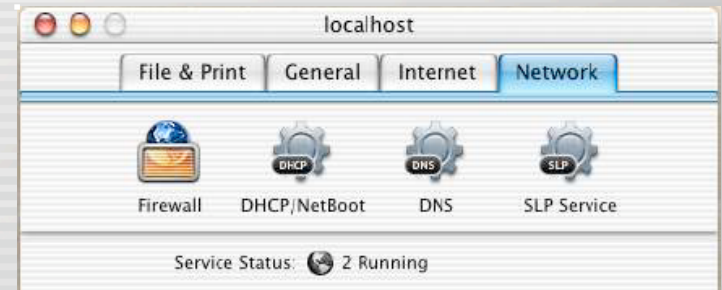
Word	Frequency
the	123
and	86
to	83
a	67
of	63
word	62
is	50
you	43
in	40
it	39
are	33
but	32
can	32
as	29
that	28
with	25
be	25
for	25
I	22
98	20
are	19
6	18
para	17
an	17
on	17
this	17
or	17
style	17
docu	16
if	16

The bar chart, titled '30 Most Frequent', shows the frequency of each word as a horizontal bar. The x-axis represents the frequency, ranging from 0 to 100. The y-axis lists the words. The chart shows that 'the' is the most frequent word, followed by 'and', 'to', 'a', 'of', 'word', 'is', 'you', 'in', 'it', 'are', 'but', 'can', 'as', 'that', 'with', 'be', 'for', 'I', '98', 'are', '6', 'para', 'an', 'on', 'this', 'or', 'style', 'docu', and 'if'.

# Notable Sessions

## Network Booting and Network Installations

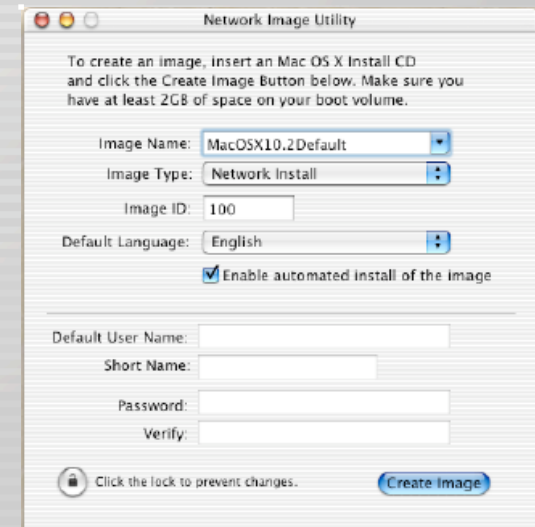
- **NetBoot**
  - Created support & maintenance images
    - Installer CD's
    - Repair tools–DiskWarrior, DataRescue, etc.
    - File System Maintenance like RsyncX, Radmin
  - Requirements like DHCP, Network Install Utility, etc.
  - Server Status to monitor NetBoot
- **ASR Command line**
  - Available in Mac OS X 10.2.2
  -



# Notable Sessions

## Network Booting and Network Installations

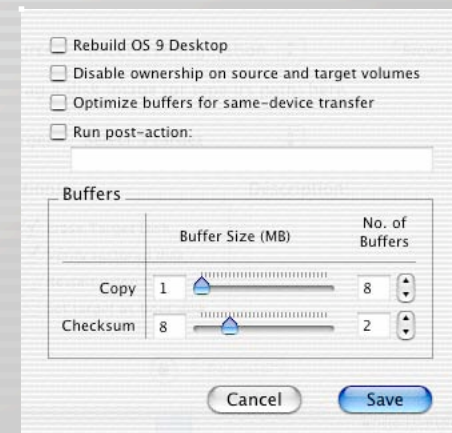
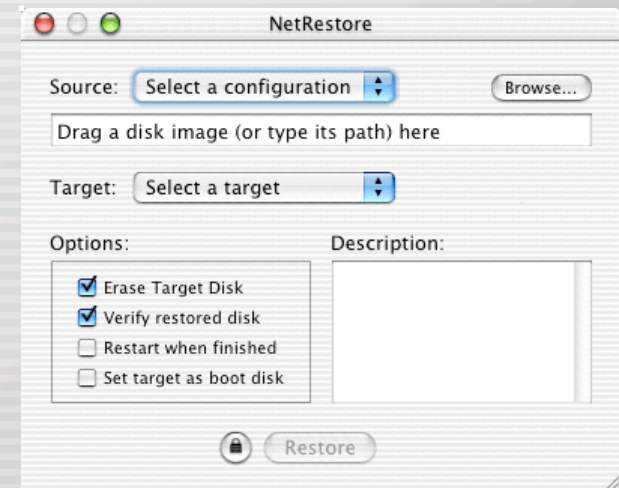
- **DiskCopy**
  - Can resize, convert and burn images
  - Can be used to create Classic disk images
  - Scriptable
- **Network Image Utility**
  - Used to create NetBoot & NetInstall images
  - Creates disk images
- **ASR Command line**
  - Available in Mac OS X 10.2.2
  - See our web docs for details



# Notable Sessions

## Network Booting and Network Installations

- **Carbon Copy Cloner**
  - Great GUI
  - Clones local drives (bootable)
  - Helps create ASR images
  - See our web docs for more details
- **NetRestore**
  - Uses NetInstall (modifies image)
  - Supports most ASR CLI options
  - Supports Post-action scripts
  - Fully automated
  - 2 GB AFP & HTTP limit but, you can segment images



# Notable Exhibitors

## DiskWarrior 3.0 for Mac OS X

- It is almost out, but was originally scheduled to be out a year ago.
- Runs native in Mac OS X
- Can fix any volume
- Mac OS 9 (or earlier)
- Mac OS X
  - Includes S.M.A.R.T. disk checking
  - New version does similar repairs as the previous Mac OS 9 version.



# Notable Exhibitors

## TechTool Pro 4 for Mac OS X

- Scheduled to be released in April
- Combines Drive 10 w/new version of TechTool
- Includes all features of Mac OS 9 version, except ones not needed for Mac OS X.
- Runs tests simultaneously instead of sequentially, improving performance.
- Includes S.M.A.R.T. disk checking



# Notable Exhibitors

DiskWarrior 3 & TechTool Pro 4 for Mac OS X

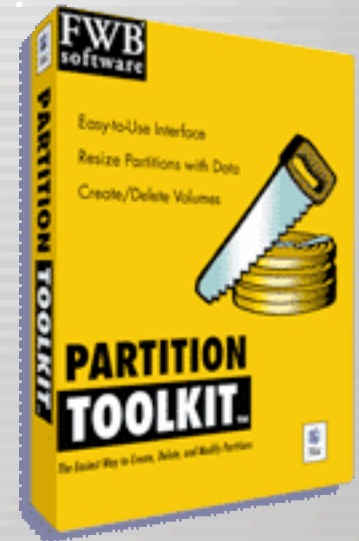
- **Bootable CD's**

- Both come with bootable CD
- They use Apple Driver Development Kit (DDK)
- Apple really restricts distribution of DDK
- BootCD Option
  - Beta Cocoa application that disk image that can be used for a Mac OS X boot CD w/Finder & Dock, etc.
  - Others, use it to run tools like RsyncX
  - We will use it with ASR Command line & document it.
  - Developers didn't choose this option due to Apple politics

# Notable Exhibitors

## FWB Partition Toolkit

- Resizes Partitions on-the-fly
- Create, Delete & Modify Partitions
- Streamlined User Interface
- Issues
  - Currently a Mac OS 9 Application
  - Supports SCSI & ATA drives
  - Can't use it to combine exiting partitions
- All issues will be addressed in update in spring



# Notable Exhibitors

## SoftRAID 3.0 for Mac OS X

- Will be available in a couple months
- Written specifically for Mac OS X
- Recognizes volumes created with previous versions of SoftRAID
- Supports any combination of FireWire, ATA, SCSI and Fibre Channel drives
- Supports up to 16 drives per volume
- Volume capacity of up to 2 terabytes
- Supports non-RAID and RAID levels 0 (striping) and 1 (mirroring)
- Automatic rebuilding of mirrored volumes
- Automatic notification of errors (drive failure)



# Notable Exhibitors

## KeyServer 6.0 for Mac OS X

- Supports all Mac OS X applications
  - Mac OS X apps come in two basic flavors:
    - Mach-0
      - Written in Cocoa
      - Examples – iPhoto, Terminal, etc.
      - Currently, can only be controlled as “unkeyed”
        - » Doesn’t prevent piracy, etc.
      - Might not be available for initial 6.0 release
    - CFM
      - More common
      - Carbonized Applications
      - Examples – Office X, Photoshop, Illustrator, etc.
- KeyConfigure will run natively under Mac OS X



# Notable Exhibitors

## PUPPY Suite for Mac OS X – Fingerprint Identification

- Compatible with Mac OS X 10.2
- USB Compatible
- 1000 fingerprint storage capacity
- Eliminates need for password through fingerprint authentication
- Price \$199







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