



The background of the image is a close-up, high-resolution texture of a tiger's fur. It features prominent, dark brown to black vertical stripes that run across the frame, set against a lighter, golden-brown or tan base color. The texture is very detailed, showing the individual hairs and the way the light catches the fur's surface.

Mac OS X 10.4

Mac OS X 10.4

“Tiger”



Key Words



The background of the image is a close-up, slightly blurred pattern of tiger stripes. The stripes are dark brown and black, set against a lighter, golden-brown fur. The pattern is oriented diagonally from the top-left to the bottom-right.

Key Words

Spotlight

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Dashboard

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H.264

Key Words

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Dashboard

H.264

Quartz 2D Extreme

Key Words

Spotlight

Dashboard

H.264

Quartz 2D Extreme

Core Image





Performance



Performance

- Compiled by GCC 4.0 (better code optimization)



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- Compiled by GCC 4.0 (better code optimization)
- Fine-grained locking in kernel



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- Compiled by GCC 4.0 (better code optimization)
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- Threaded image decoding



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- Binary format for plists



Performance

- Compiled by GCC 4.0 (better code optimization)
- Fine-grained locking in kernel
- Threaded image decoding
- Binary format for plists
- More Quartz/Aqua performance tuning





Quartz 2D Extreme



Quartz 2D Extreme

- Hardware acceleration for Quartz **drawing**



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... on recent graphics cards (uses pixel shader)



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- Also frees up RAM used for windows



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- Also frees up RAM used for windows
... windows stay in VRAM (mostly)



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QuickDraw

Quartz

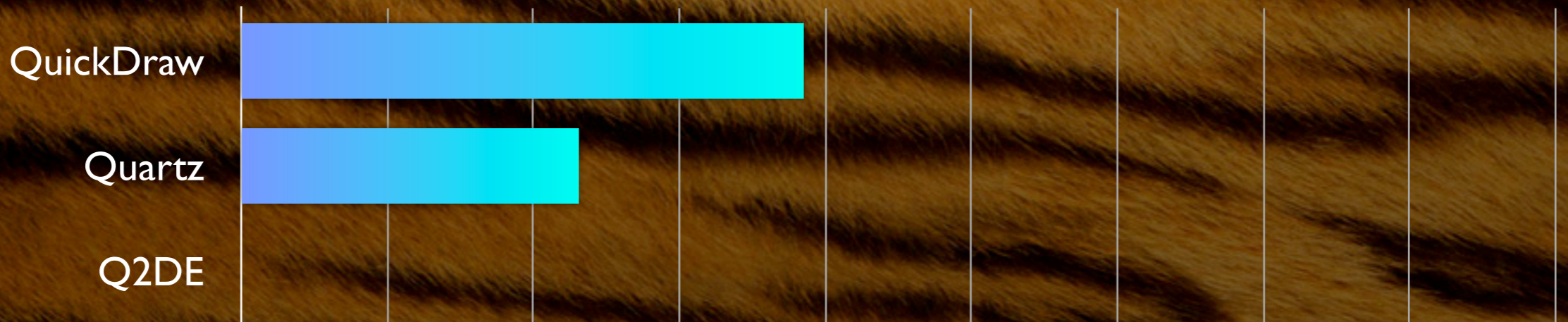
Q2DE





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Security



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- Access control lists (*acl's*)



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... only turned on for servers (by default)



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... won't even respond to pings
- ***Encrypted swap space***
... closes biggest remaining security hole
... critical for laptops that use FileVault





UNIX Foundation



UNIX Foundation

- ***64-bit support***



UNIX Foundation

- **64-bit support**
... allows > 4 GB RAM



UNIX Foundation

- **64-bit support**
 - ... allows > 4 GB RAM
 - ... command line apps only



UNIX Foundation

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 - ... command line apps only
 - ... important for databases, HPC
- Extended file attributes (**xattr's**)
 - ... generic filesystem-level metadata
- UNIX commands now resource fork aware
 - ... cp, mv, rsync etc





Spotlight



Spotlight





Spotlight





Spotlight





Spotlight



- System-wide search from menu bar



Spotlight



- System-wide search from menu bar
... also used in Finder, Mail, many others



Spotlight



- System-wide search from menu bar
... also used in Finder, Mail, many others
- Based on combination of technologies



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... plus **BeOS** filesystem ideas
(Apple hired ex-Be developers)





Spotlight



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Searches **everything...**



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- filenames



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- file date, size, kind etc



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- keywords, author, description & other “metadata”
- extended file attributes (xattr’s)
- email messages
- web bookmarks
- address book, calendar, chat logs etc
- ***can be extended by app developers***





Spotlight



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- Works on all filesystems
 - ... not embedded in filesystem like BFS
 - ... network server friendly (in theory)
- UNIX commands also provided (mdls, mdfind)





Dashboard



Dashboard

- How often do you look up...



Dashboard

- How often do you look up...
phone numbers



Dashboard

- How often do you look up...
phone numbers
weather prediction



Dashboard

- How often do you look up...
 - phone numbers
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 - share prices, exchange rate etc



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Dashboard



- How often do you look up...
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- Now just one click away



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- Like ***Konfabulator***



Dashboard



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Dashboard



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Dashboard



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- Like **Konfabulator**
 - ... but uses HTML & JavaScript
 - ... really mini web pages
- Hit or gimmick ?

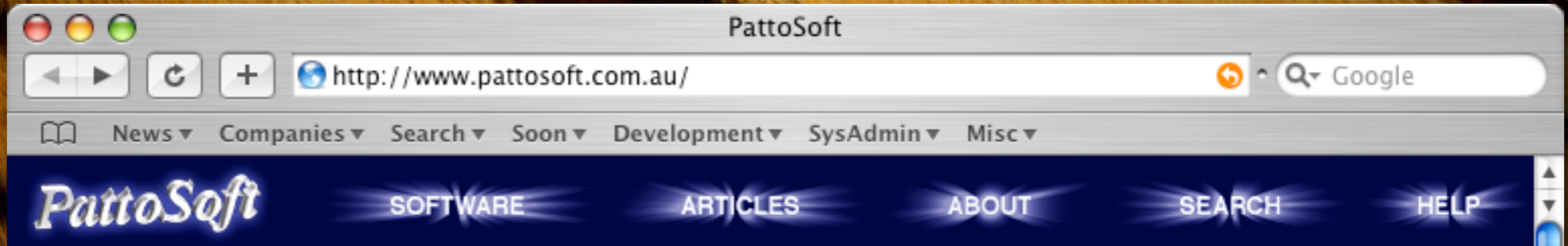




Safari RSS

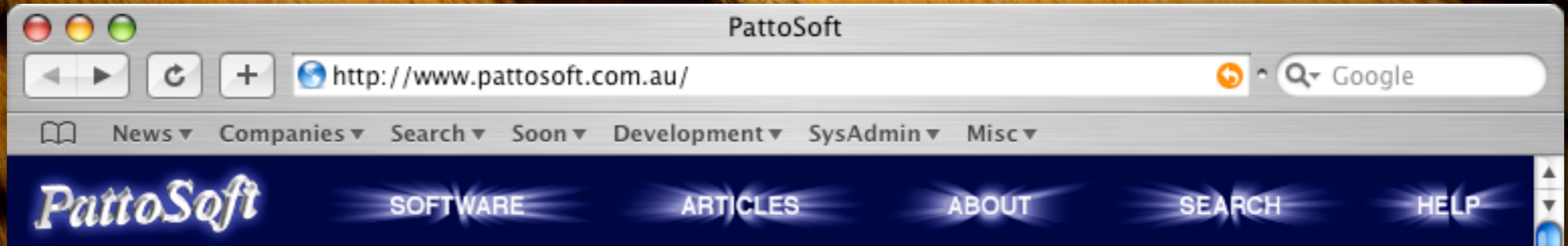


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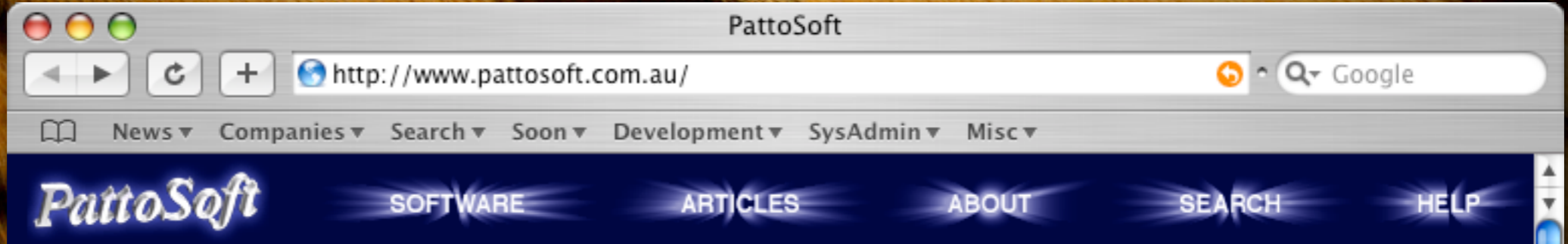
Safari RSS



- Even faster (was already fastest)



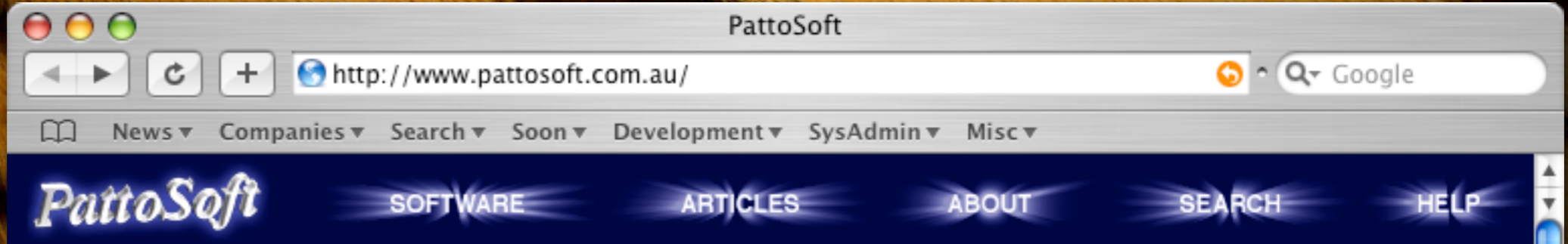
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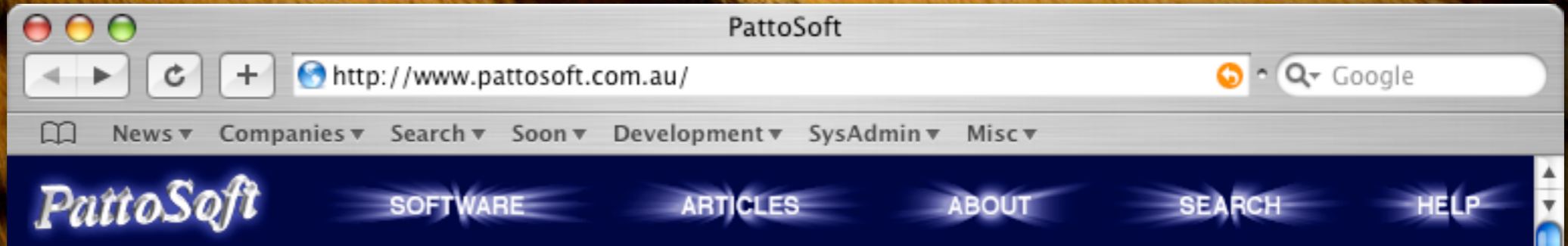
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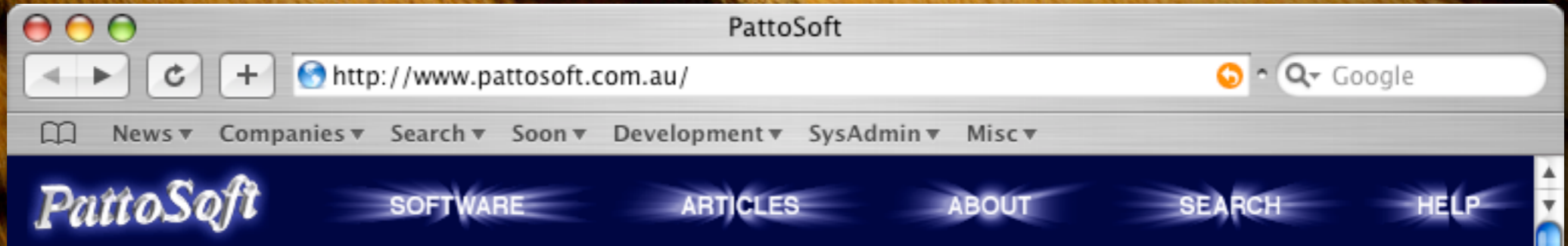
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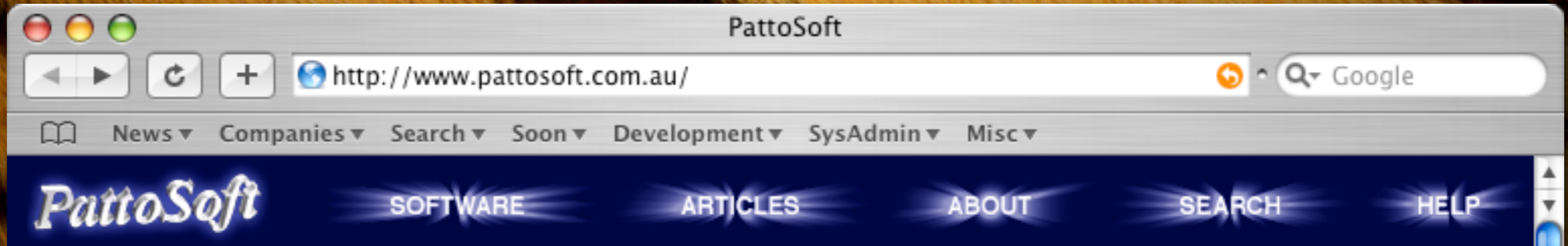
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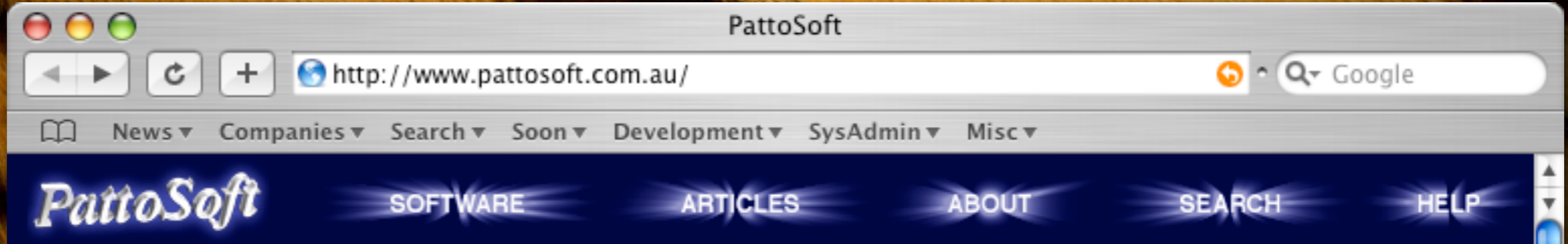
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... now definitely the best browser





Preview 3

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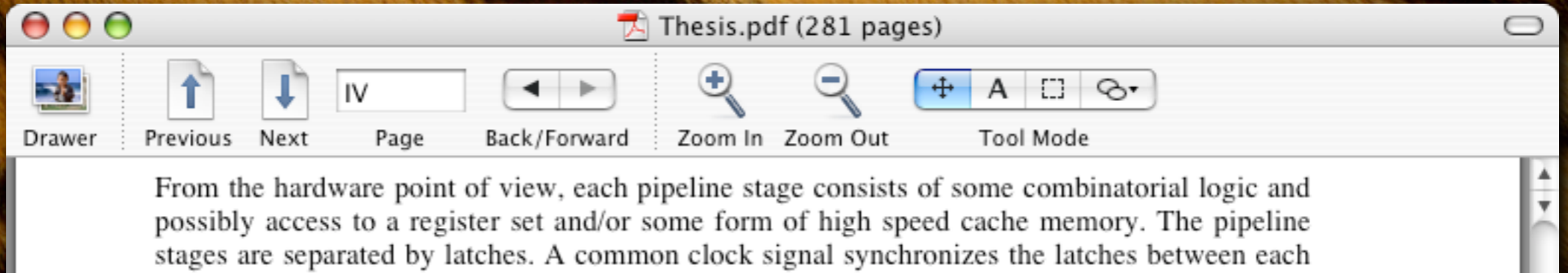


Thesis.pdf (281 pages)

Drawer Previous Next Page IV Back/Forward Zoom In Zoom Out Tool Mode

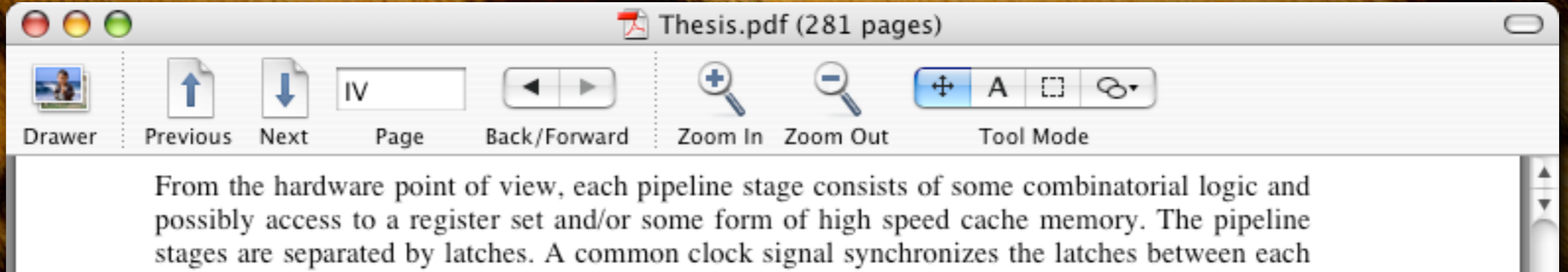
From the hardware point of view, each pipeline stage consists of some combinatorial logic and possibly access to a register set and/or some form of high speed cache memory. The pipeline stages are separated by latches. A common clock signal synchronizes the latches between each

Preview 3



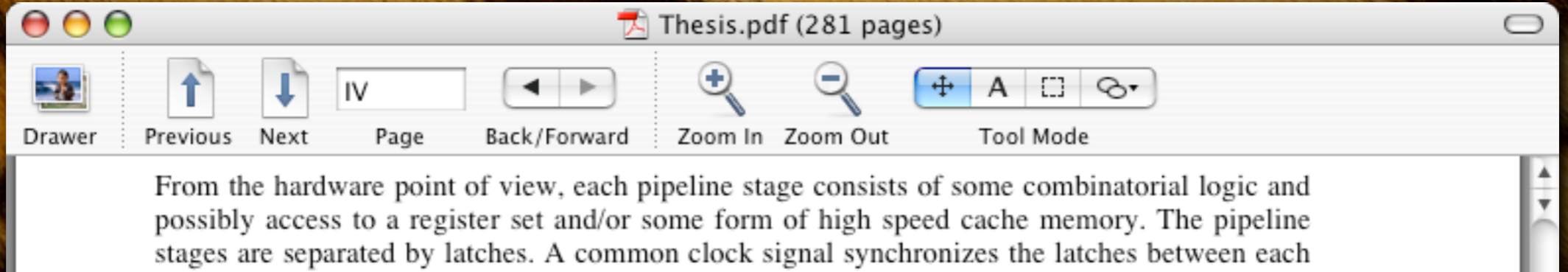
- PDF 1.5, JPEG-2000, search, commenting

Preview 3



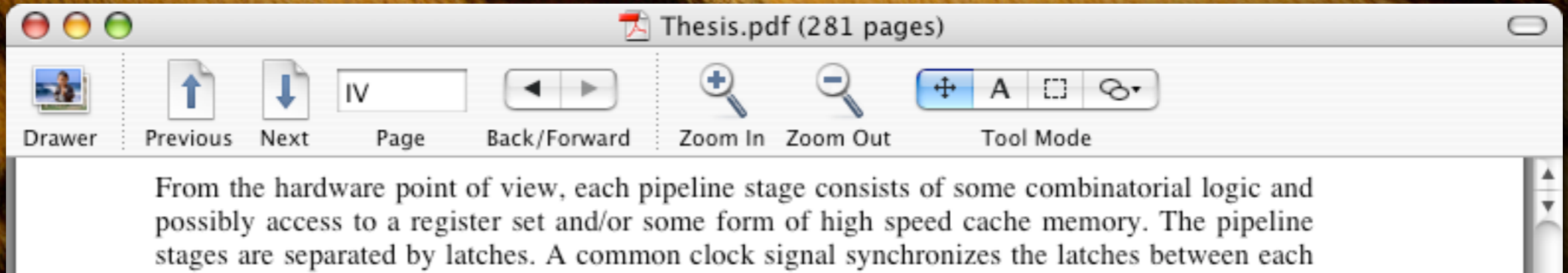
- PDF 1.5, JPEG-2000, search, commenting
- Now a viable alternative to Acrobat Reader

Preview 3



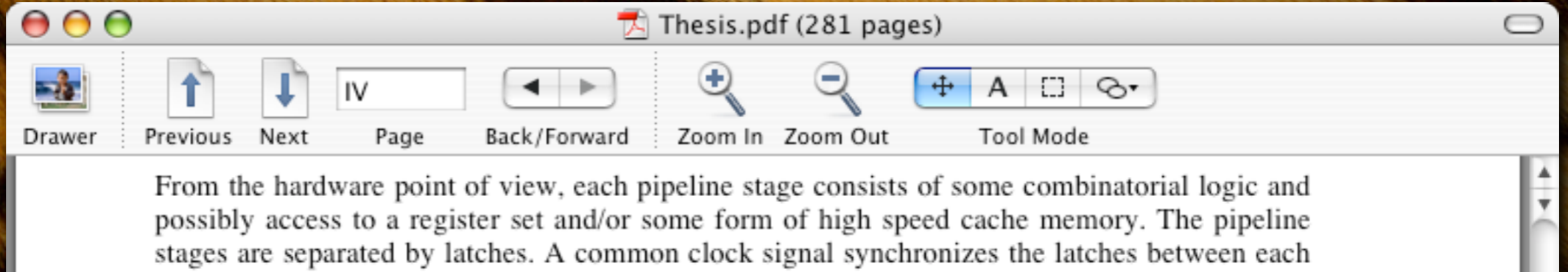
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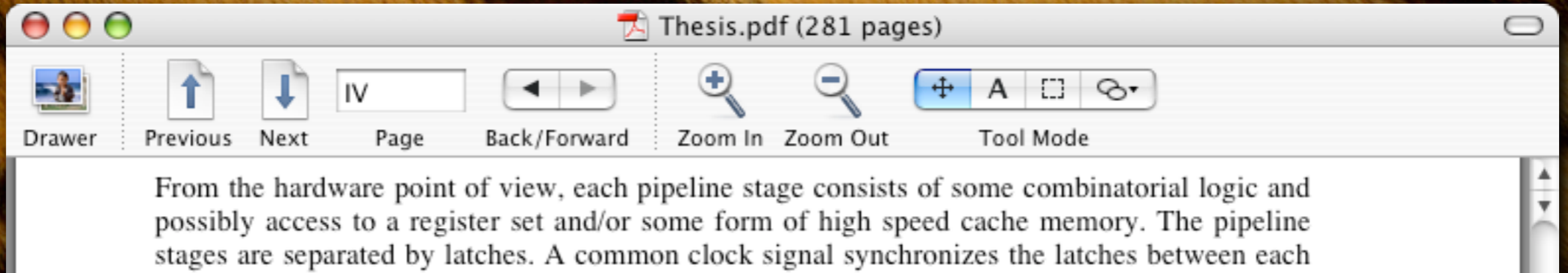
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... better AA, faster (esp. with Q2DE)
- Browser-style bookmarks - yay!
- Not a match for Acrobat Pro
... larger files, limited editing/commenting





Mail 2



Mail 2

Inbox (33 messages, 8 unread)

Mailboxes: Delete, Junk, Reply, Reply All, Forward, New, Get Mail, Search

From	Subject	Date Received
Chris Celeste	VGAtor technical query (US)	23 Mar 2005 3:37 AM
Claudia Elsaesser	Re: VGAtor technical query (US)	18 Mar 2005 4:55 PM
Chris Celeste	Re: VGAtor technical query (US)	19 Mar 2005 2:38 AM
Chris Celeste	Re: VGAtor technical query (US)	22 Mar 2005 3:34 AM
Chris Celeste	Re: VGAtor technical query (US)	23 Mar 2005 3:37 AM
Palaeographics Sales	Your PalaeoGraphics.com.au Or...	23 Mar 2005 1:35 PM

From: Chris Celeste
Subject: Re: VGAtor technical query (US)
Date: 23 March 2005 3:36:47 AM
To: Jason Patterson

Jason:

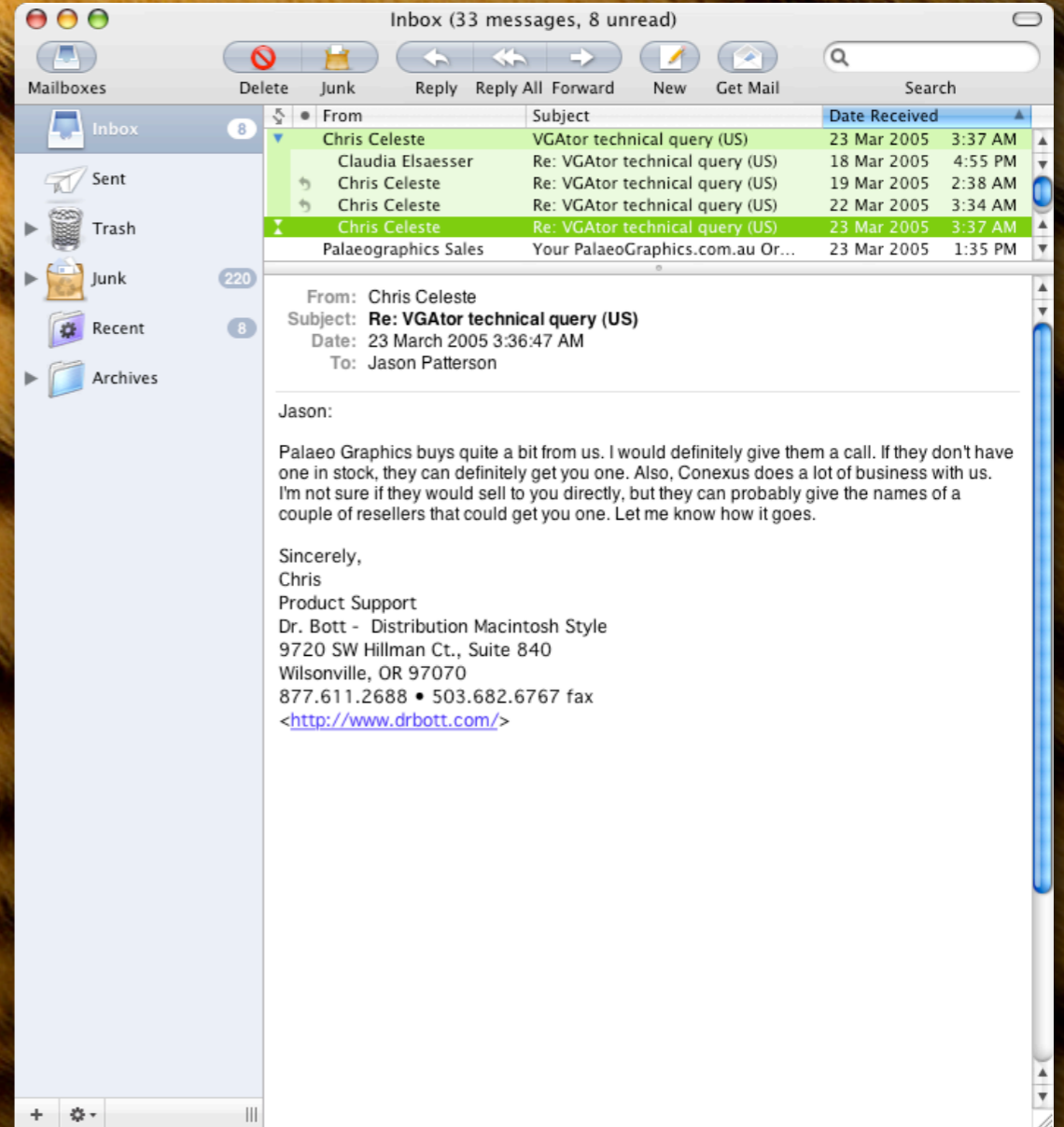
Palaeo Graphics buys quite a bit from us. I would definitely give them a call. If they don't have one in stock, they can definitely get you one. Also, Conexus does a lot of business with us. I'm not sure if they would sell to you directly, but they can probably give the names of a couple of resellers that could get you one. Let me know how it goes.

Sincerely,
Chris
Product Support
Dr. Bott - Distribution Macintosh Style
9720 SW Hillman Ct., Suite 840
Wilsonville, OR 97070
877.611.2688 • 503.682.6767 fax
<<http://www.dr bott.com/>>

Mail 2



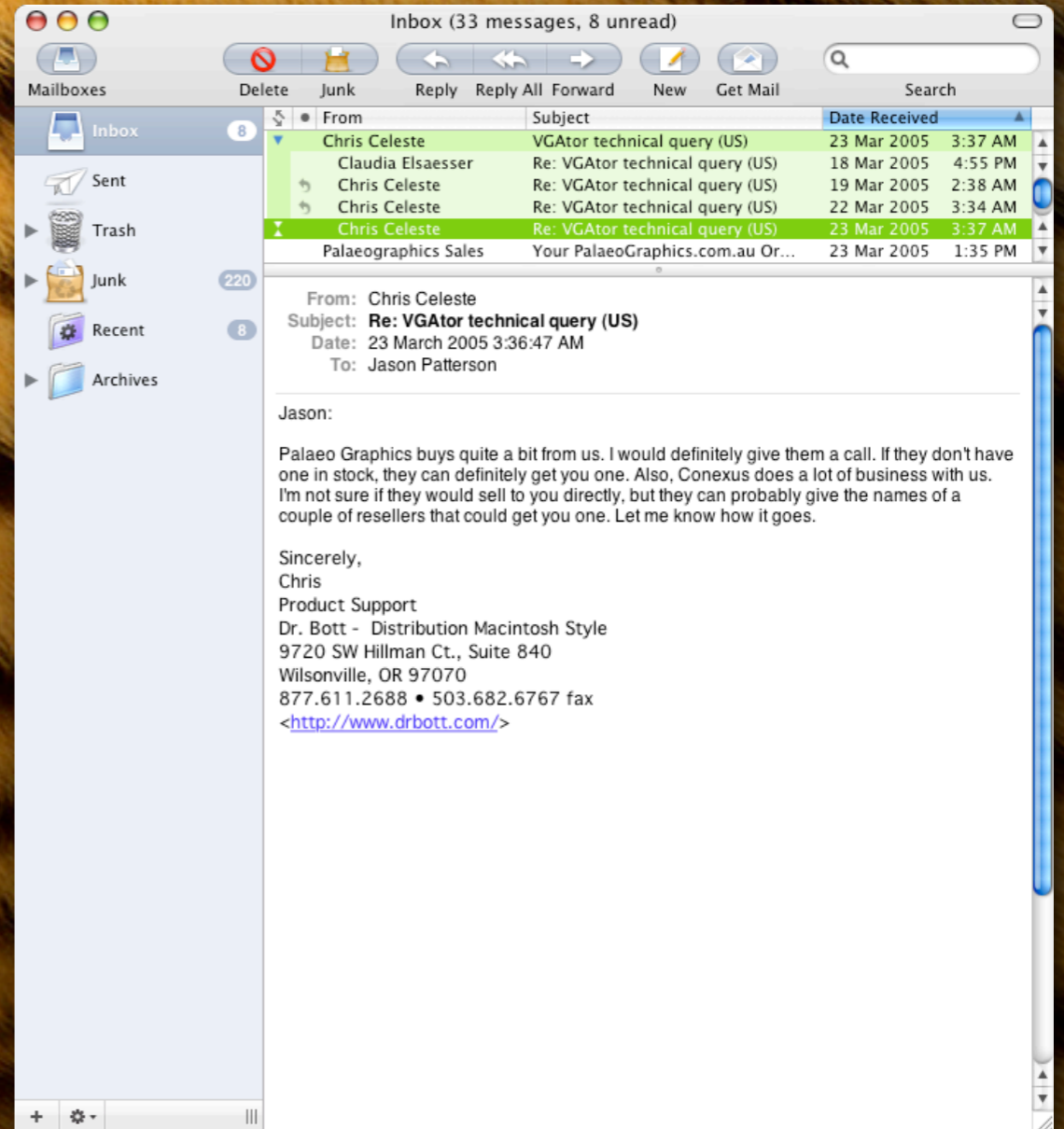
- New layout (no drawer)





Mail 2

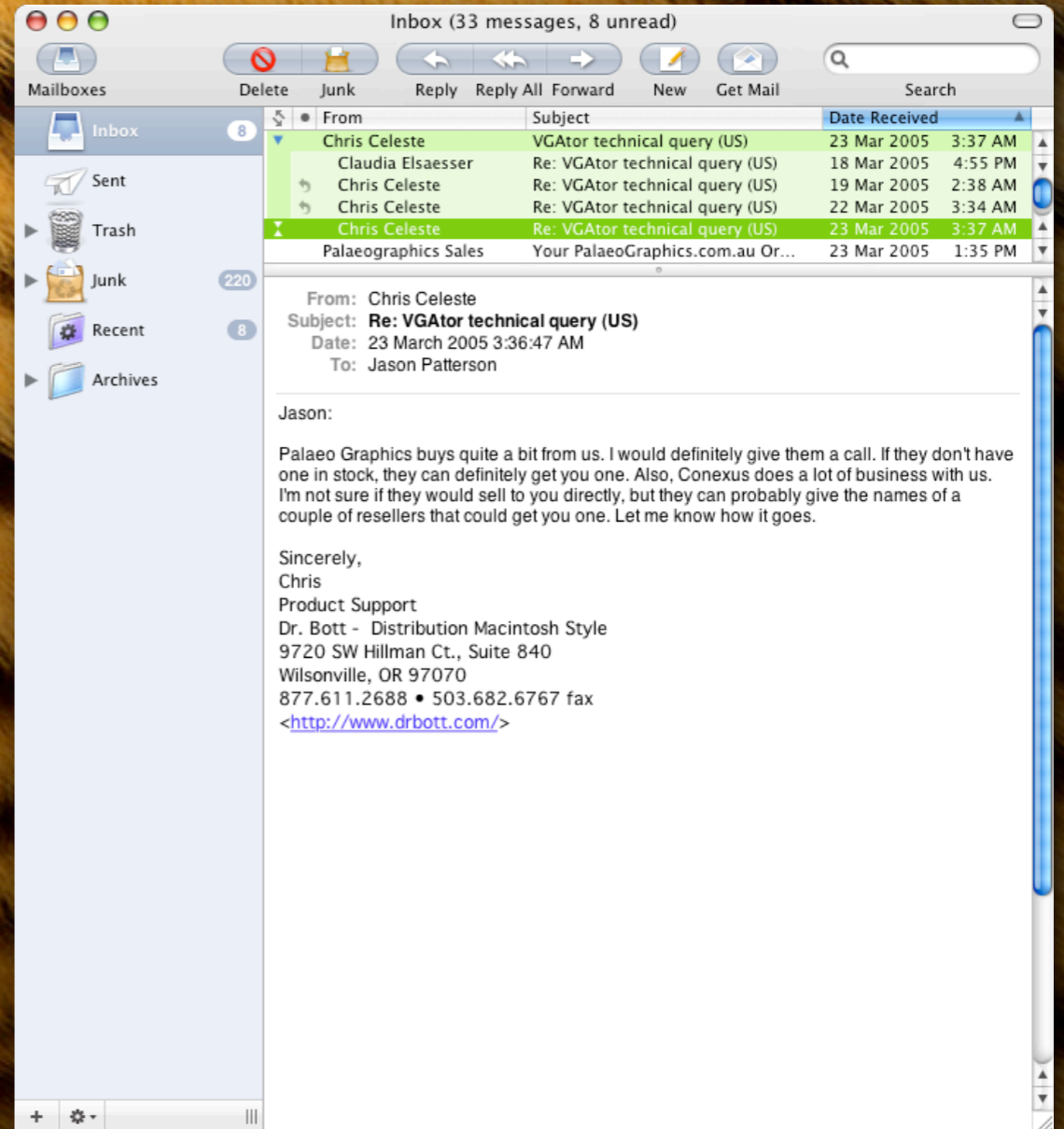
- New layout (no drawer)
- ***What's with the buttons?***





Mail 2

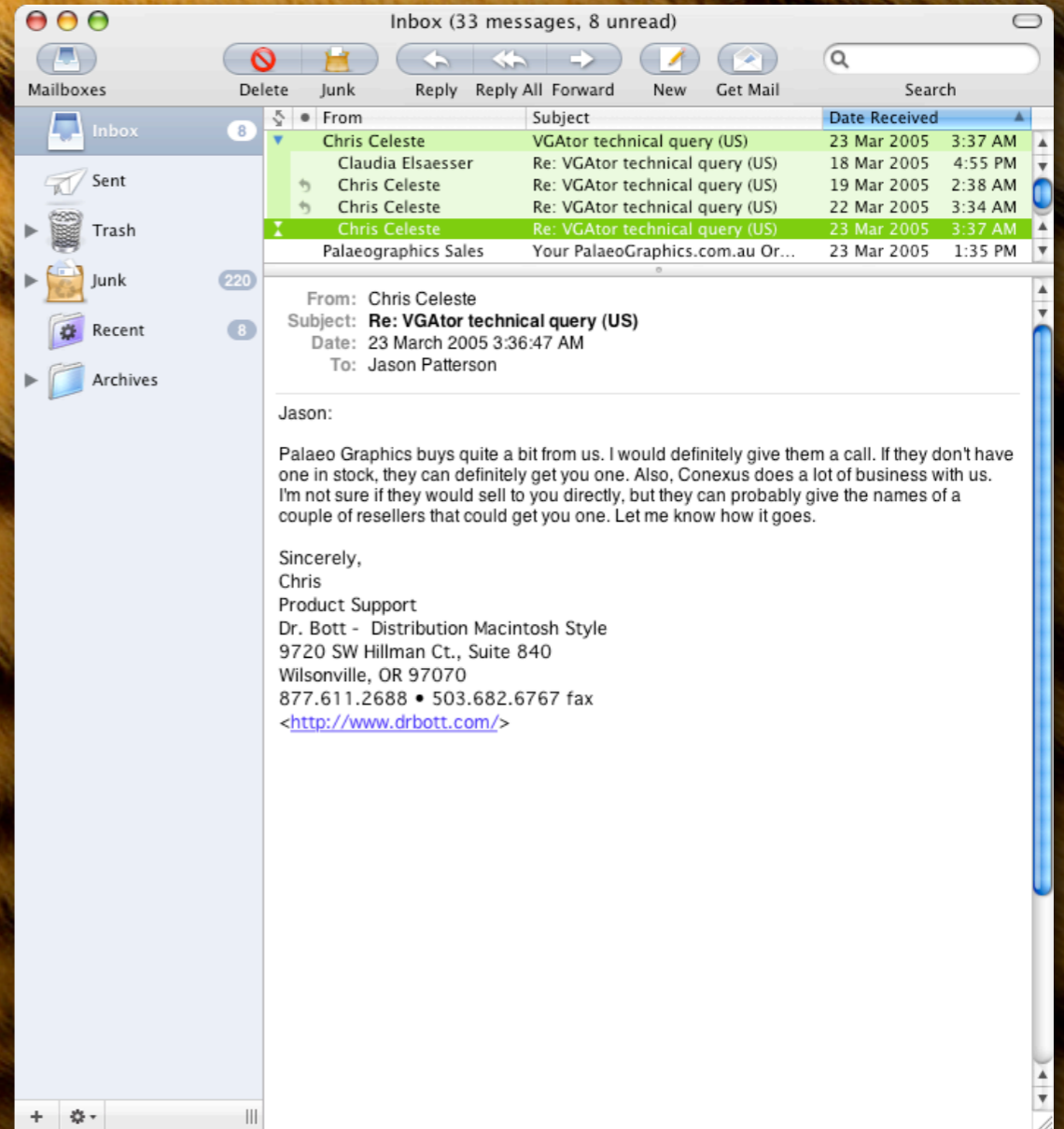
- New layout (no drawer)
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... inconsistent with system





Mail 2

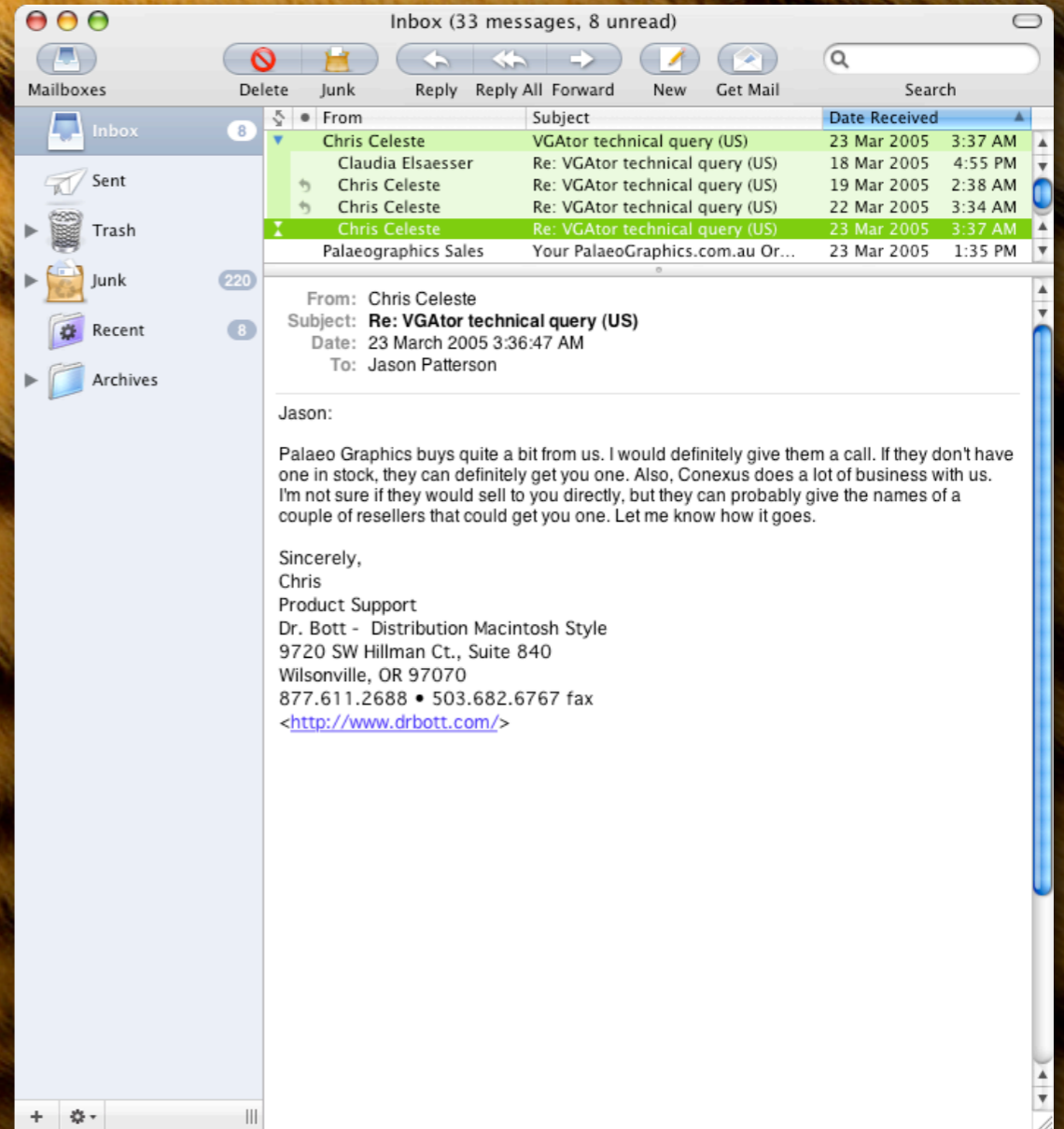
- New layout (no drawer)
- ***What's with the buttons?***
... inconsistent with system
... and other windows in Mail





Mail 2

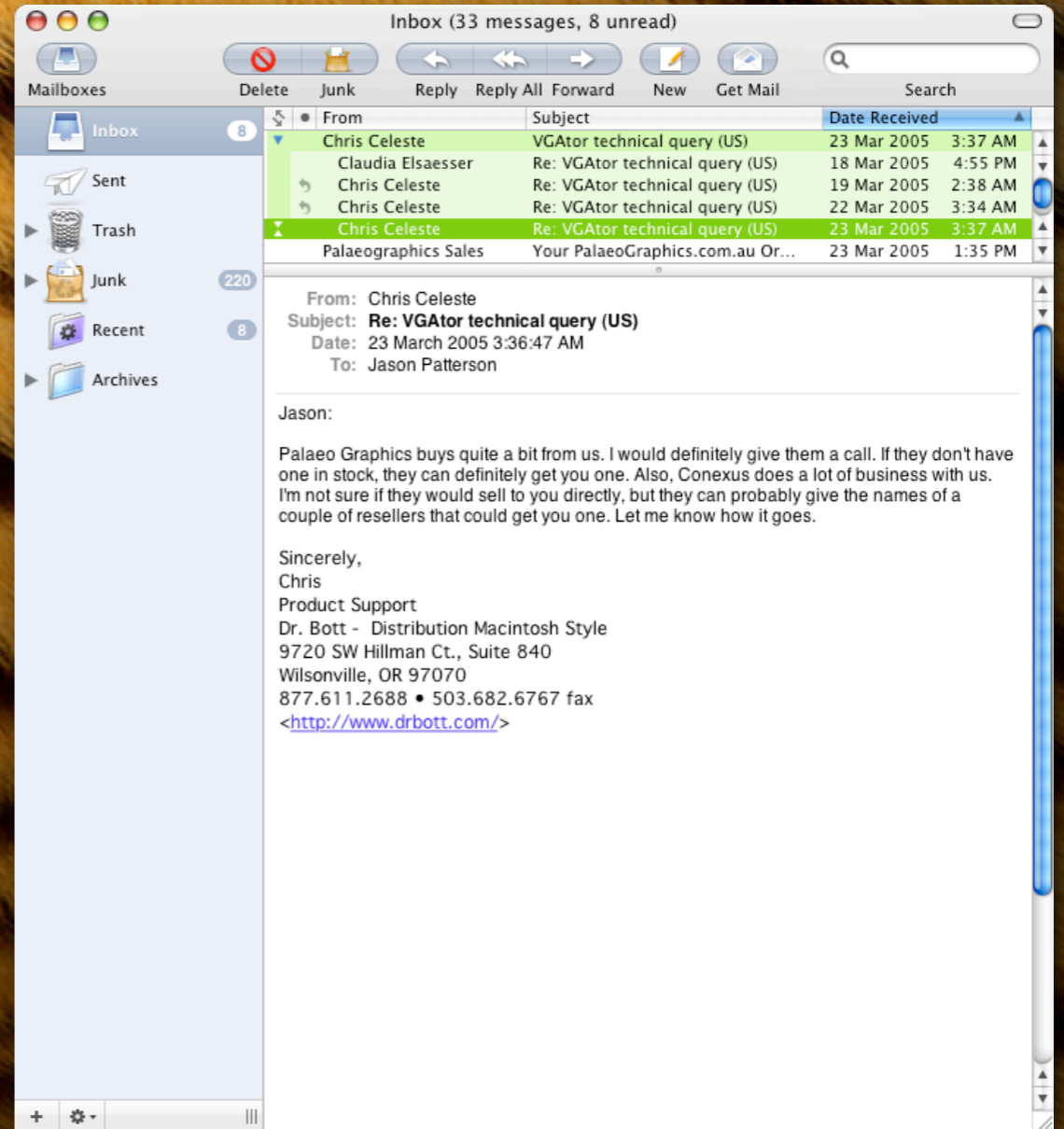
- New layout (no drawer)
- ***What's with the buttons?***
... inconsistent with system
... and other windows in Mail
- Spotlight-enhanced search



Mail 2



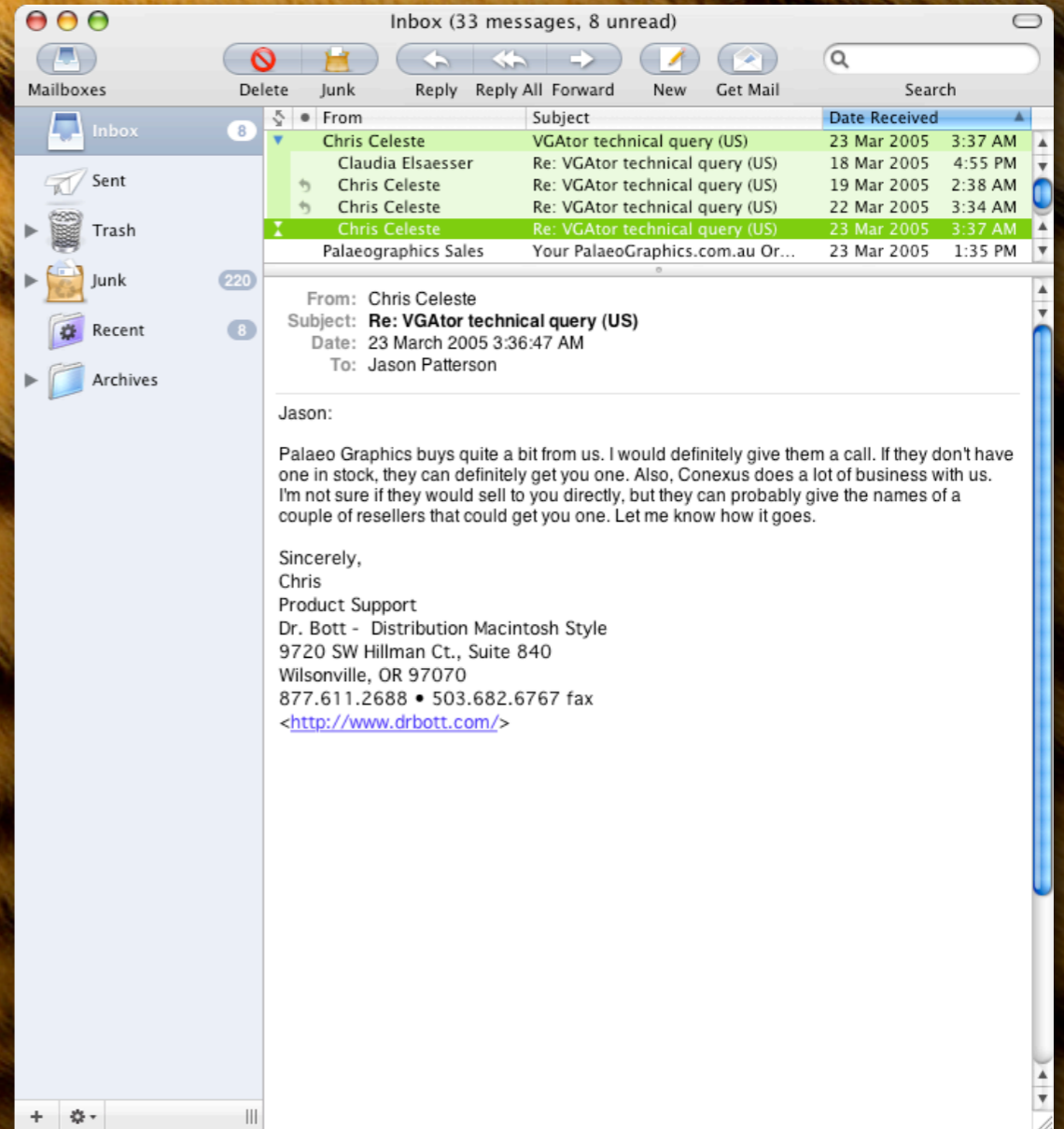
- New layout (no drawer)
- ***What's with the buttons?***
... inconsistent with system
... and other windows in Mail
- Spotlight-enhanced search
... and smart mailboxes





Mail 2

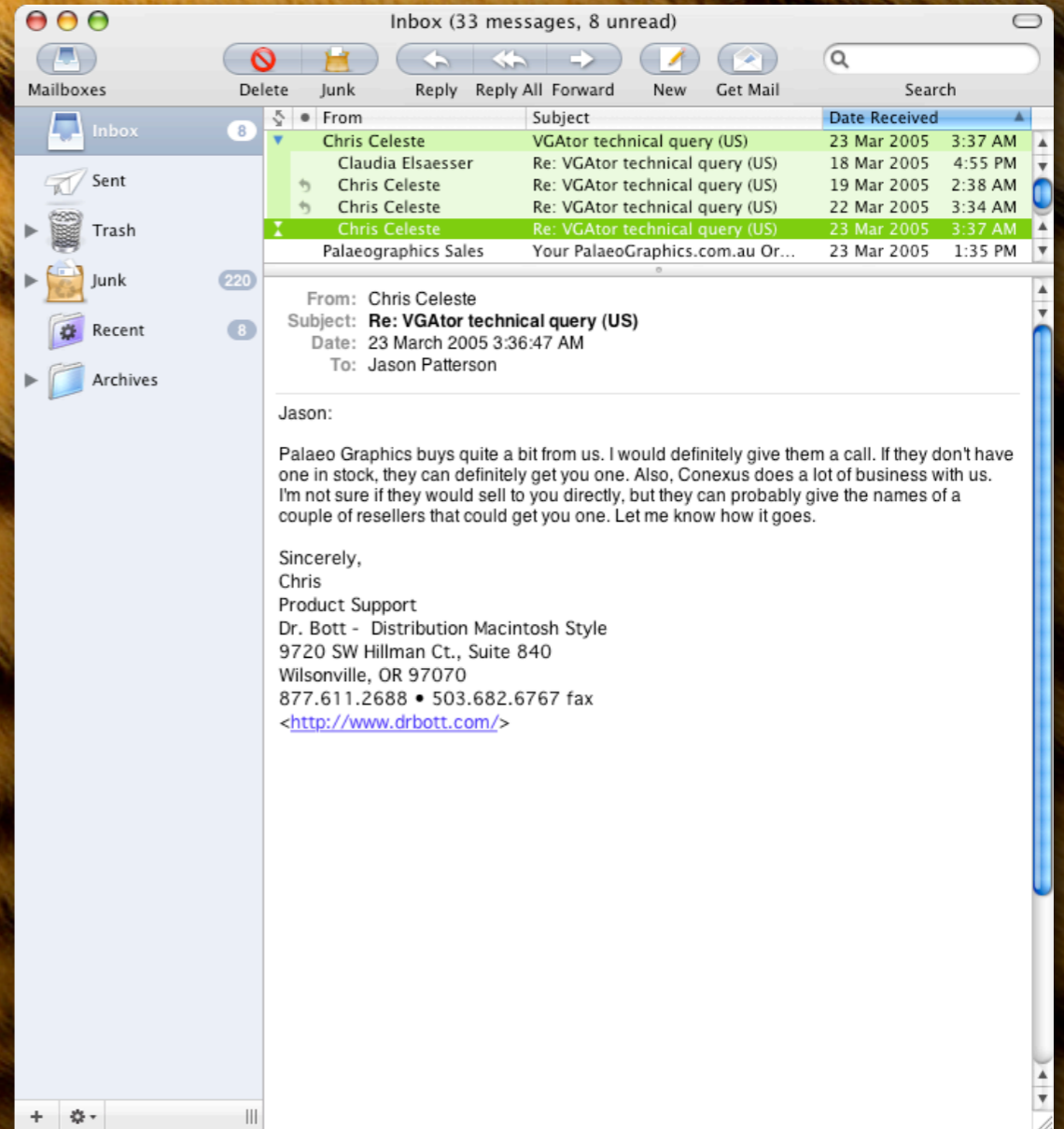
- New layout (no drawer)
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... inconsistent with system
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- Slide show directly from Mail





Mail 2

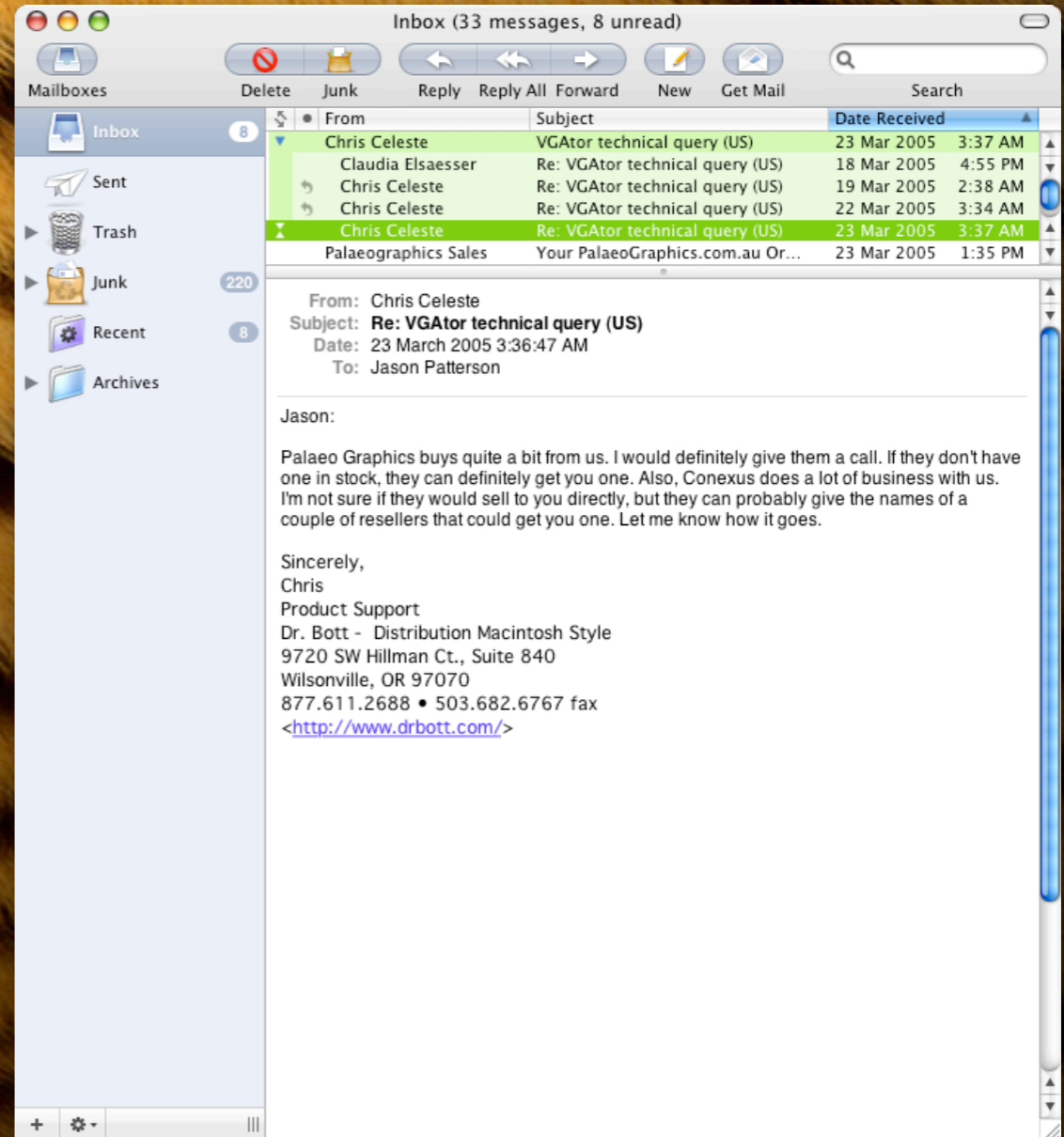
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- Spotlight-enhanced search
... and smart mailboxes
- Slide show directly from Mail
- Show message size before sending
... and resize images in Mail







iChat 3



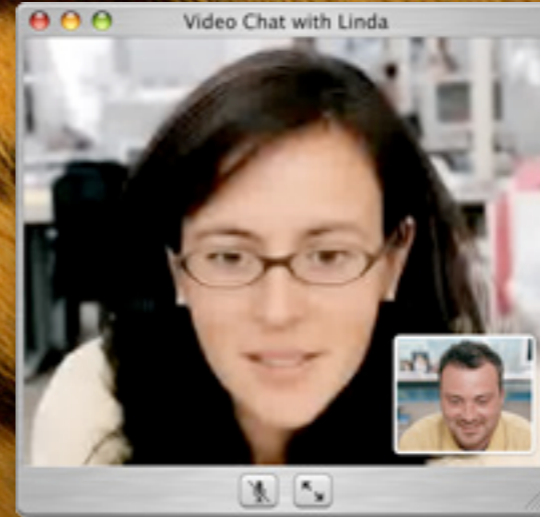
iChat 3

- **H.264 video** (better quality)



iChat 3

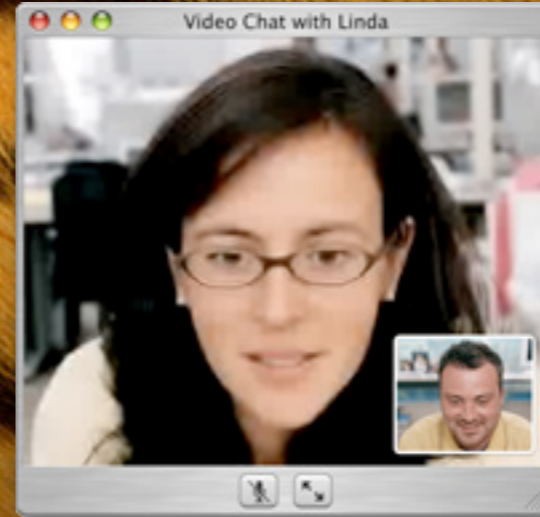
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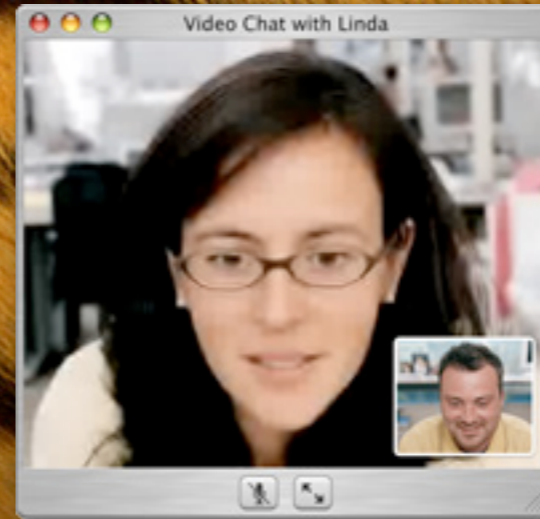
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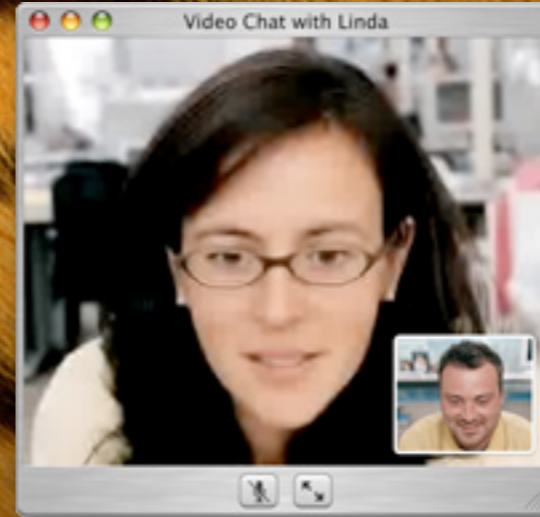
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- Multi-person video/audio chat





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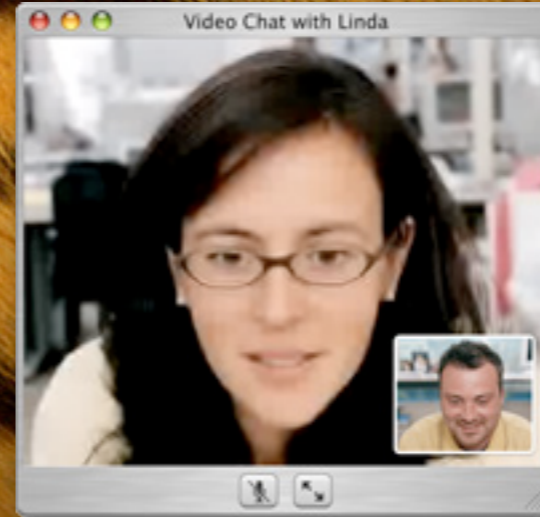
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... with 3D “**room**” look





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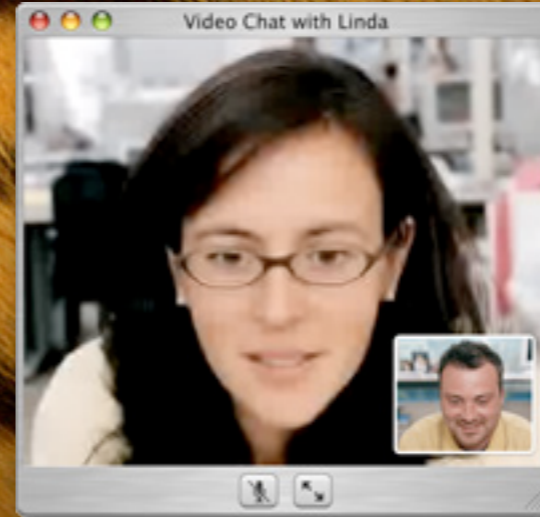
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iChat 3

- **H.264 video** (better quality)
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- Multiple accounts





iChat 3

- **H.264 video** (better quality)
- Multi-person video/audio chat ... with 3D “**room**” look
- Multiple accounts
- Jabber support





iChat 3

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... with 3D “**room**” look
- Multiple accounts
- Jabber support
... still no MSN or Yahoo!







QuickTime 7



QuickTime 7

- **Recording** in QuickTime Player



QuickTime 7

- **Recording** in QuickTime Player
... for quick capture from webcam



QuickTime 7

- **Recording** in QuickTime Player
... for quick capture from webcam
- **A/V controls** in QuickTime Player



QuickTime 7

- **Recording** in QuickTime Player
... for quick capture from webcam
- **A/V controls** in QuickTime Player
... color, contrast etc (Core Image req)



QuickTime 7

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- **H.264** (aka: AVC, MPEG-4 Part 10)



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... better quality @ same bitrate
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For Developers



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... to go with Spotlight & Safari



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Automator



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- **Drag & drop** approach to scripting



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 - ... you don't need to know how to program





VoiceOver



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- Help has good tutorial to get started





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Questions ?

