

2 Power Macintosh G3 Arrives Giving new meaning to the word "fast." Apple Scales Everest. WGBHS NOVA adventure to web audience.





The Macintosh connection to Europe's new money.

www.apple.com

News for the Creative Community

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Apple Media Arts

# WGBH Converges on Everest

information, the PowerBook systems were

Convergent media, bringing together the Internet, film, and an interactive audience, is fast becoming the standard for information distribution. Boston's public television station, WGBH, has embraced this new strategy and the Apple technology that makes it possible, both in the office and over 29,000 feet.

convergence at WGBH, as a film and interactive web site were created simultaneously from the mountain.

collected daily on the mountain. WGBH was already an Apple based production house, using Macintosh technology The demands on producers and or everything from copyediting to video equipment were severe. With Clark and editing for nationwide broadcasts such her team constantly sending images and

as NOVA, Frontline, and The American Experience. The Mac is involved in everything they do, from high-end Avid nonlinear editing to print design to on-air promotions to web sites. So the WGBH team knew the value that Apple technology would add to the process. On Everest, PowerBook computers were used to send digital images, text, and

WGBH's 1,250 Mac systems are used for

technology, the world could quickly to wait for the book version

In 1996. NOVA Online producer Liesl Clark from WGBH public television in Boston set out for Mount Everest to create NOVA's first-ever "online adventure." Her mission was to document the making of an IMAX feature film on Everest (currently playing in IMAX theaters). Carrying a PowerBook and a digital camera and following the IMAX filmmaking team, led by David Breashears, Clark brought the climb, the climbers, and the mountain to life for the Internet community at www.wgbh.org. The web site was

a remarkable success, with online interest and interactivity eventually driving a second expedition in 1997. This second project would mark the beginning of real media

Mount Everest. Norgay had a look around, took a shallow breath, and recorded some thoughts for later: "It was such a sight as I had never seen before and would never see again: wild, wonderful, and terrible. Had Norgay and Hillary been equipped with Macintosh PowerBook computers,

e-mail messages through a satellite

phone, allowing a web site to be built

and modified daily from one of the most

remote areas of the world. Online users

could access regularly undated visuals

everything from copyediting to video editing for nationwide broadcasts.

have experienced the sights and sounds of standing at the highest place on the planet. Alas, the populace would have First Online Adventure

In 1953, Sir Edmund Hillary and Tenzing

Norgay stepped onto the summit of

a digital camera, and QuickTime VR

and information and communicate directly with the climbers and the NOVA crew. Rather than waiting for the broadcast of a complete edited television show, viewers were able to participate directly in the climb and the web site production as it proceeded. When things went awry on the mountain,

#### leading to the death of eight climbers, attention to the Internet grew. As events unfolded by the second, the rapid uplink of information kept Internet users abreast of the situation on a daily basis

#### **Tailoring Content to Interest**

"Users were particularly interested in the physiological effects of altitude on the mind and body," recalls Clark. Specific queries such as this gave new direction to the content added to the site. The users

asked questions, and the onsite producers in use from morning till night—"when it were able to respond with visuals, climber got just too cold for us to type," recalls testimony, and physiological information Clark. The ease and durability of the Apple technology facilitated the process substantially. "Apple has an intuitive

interface" says Dave MacCarn\_chief technologist at WGBH. "It allowed ou producers, who are nontechnical people especially impressed," comments Clark. "with the ease of use, dependability, and how quickly I could troubleshoot a problem when something went wrong. In the end, the only technical problem was cold batteries. "We had to put the batteries in plastic freezer bags and boil them to warm them up," says Clark. The interactivity of the 1996 project became the modus operandi for 1997. Previously, recalls MacCarn, World Wide Web content was considered "a

to use the technology." Despite con-

sistent subzero temperatures, there was

no trouble with the machines. "I was

supplement to the broadcast, a source of additional information."The 1997 Everest expedition was the first foray into true web and television convergence for WGBH.

According to Annie Valva, director of technology at WGBH Interactive, conrergence is more than simply "having your television on your computer or your omputer on your television. It is how we think about content development, how we make our content, and how we present our content." With the Apple technology facilitating near-real-time contact between producers on Everest and viewers at home the experience and the content-for both film and the web-became fundamentally ntertwined Parallel Production It is parallel production," says Valva,

climbers ascended Everest, more "but like railroad tracks with ties," where d more people logged on to NOVA's web to follow their progress, with interest eaking when climbers reached the summit the two sides are inherently connected The web site and the broadcast become inseparable, each driven by and enhancing the other, and executed simultaneously. In 1997, Internet viewers participated as they

Lhotse

had in 1996; now, however, their input not us, it gives us the ability to experiment only drove the content for the web, but and try things we couldn't try before." And influenced the television program as well she believes the technology is applicable to all forms of television and screen media-

Again, Apple technology was critical to the convergent production. "With Apple technology, our production teams are able to stay focused on creating the content without having technology get in the way," says Valva. And, as usual, Apple technology was involved at every stagefrom immediate web site updates to e-mail communications to the creation of traditional film shipped back to the Mac-powered Avid editors at home.

#### New Online Expeditions With Everest as the model, other

NOVA/PBS online expeditions-Easter Island, Egypt, Peru-now develop content with a convergence-based philosophy. Valva believes convergence with Apple technology is the future for WGBH and for broadcasting in general. "When we use the kind of technology Apple provides

27,806 feet

B

technical difficulty with their Pow cadmium unit had to be boiled in order to function properly.

from network news to TV series to

The goal, as Valva says, "is to teach-to

allow people access to information and

experiences they wouldn't normally have?

Convergence creates an active relationship

between viewer and viewed, rather than

the passive relationship necessitated by

standard television media. For WGBH, web

site traffic during the 1997 Everest expedi-

tion reached new heights for NOVA before

the film aired on television-heights that

Hollywood movies.

doubled after the February 1998 broadcast, proving that the web had not diverted interest from television, but expanded it.

"Apple technology, and the new advances of QuickTime in particular, facilitate our move toward parallel production and convergent technologies," says Valva. "At WGBH we are committed to working with technologies that adhere to industry standards so we can produce our content once and have it play everywhere."

Because QuickTime recognizes and plays almost 90 file formats, WGBH can "easily share assets across a variety of departments and projects-allowing us to produce our television films simultaneously with the accompanying web sites and print materials," says Valva. "We can archive these materials for later internal use, or for easy access to our stock footage collection?

Dave MacCarn is currently experimenting with OuickTime to build a comprehensive film archive for the WGBH Film & Video Resource Center, "Ultimately," he says. "we hope to be able to catalog every piece of film, making it readily available for retrieval and delivery for whatever platform-film, television, Internet-and allowing for convergence in all projects in the future."

Visit www.wgbh.org to go to NOVA Online and other WGBH web sites.

feel of a much higher-end system. Final

Cut Pro will open doors to a lot of people

For storing and sorting media, creating

QuickTime

## **QuickTime**

### Go to Level 3 QuickTime is the Apple technology that makes video, sound, music, 3D, and

QuickTime is the core multimedia

technology used in 11,500 CD-ROM

QuickTime, and so do Id Software's

DOOM II and Microsoft's Encarta. And entertainment giants like Fox Interactive. CNN, Disney, and Pixar use QuickTime virtual reality come alive for Macintosh and Windows users. Now QuickTime to deliver digital video. takes your multimedia canabilities to the See It to Believe It next level-and the one beyond.

experience of virtually being there

QuickTime VR Technology This panorama, captured from the summit of Mt. Everest, represents how

This panorama, captured from the summit of Mt. Everest, represents how Apple QuickTime VR sees the world. A digital camera is rotated 360 degrees

view the entire scene. Web users who logged on to NOVA Online Adventur

ed to similar breathtaking panoramic views and invited to enjoy the

Watch video previews of what's on Fox, Get QuickTime 3, the next-generation check out Disnev's trailer for A Bug's version of the standard for digital video. Life-or enjoy the latest iMac ads with no programming interruptions. QuickTime 3. which includes cutting-edge comprestitles and hundreds of new DVD titles. sion technologies from Sorenson and For instance, Broderbund's Myst uses QDesign, actually compensates for network bottlenecks-letting you enjoy

#### reality, even at extremely low data rates A Bug's Life The X-Files Want to hear an entire music CD? Austin Powers

compression technology that provides high-fidelity audio at low bit rates. Inside your computer, there's a boom box waiting to sound off-and you can turn it on with QuickTime 3. To Get QuickTime 3

You Heard It Here First

iMac Theate pollo 11 Pop Music Blue Indigo Think Different Christine Kan

### Final Cut Pro

### Lights, Camera, and Lots of Action in a plug-and-play setting that outpaces

existing systems and bypasses once-

necessary technology, "Digital video used

to be the most painful and PC-like thing

on a Mac; you had boards, SCSI cards

and drivers." Mvers adds, "Now all you

need is a camera."

For independent video producers, TV ad agencies, graphic artists, webmasters, and anyone with a camera trying to make a professional video at an affordable price, now there is Final Cut Pro-a product that capitalizes on the revolution created by digital video and built-in FireWire connectivity.

Developed by a team of world-class "We wanted Final Cut Pro to be a natural engineers, Final Cut Pro includes extension of the Mac." says Tim Myers. professional editing and compositing senior product marketing manager for Apple video products, "And it is," Users can edit, compose, and create effects

end editing features, such as three point editing, match frame, multitrack trimming, and robust svnc management, as well as support for third-party Adobe After Effects plug-ins. Final Cut Pro delivers digital video, functions in an open-systems market, and offers editing features now seen only on \$100.000 systems

Award-winning film editor Larry Jordan tools, integrated logging, media capture, a 17-year industry veteran of feature media management, audio mixers, and films and hired gun on NYPD Blue, Jodie filters. In addition, it includes many high Foster's Little Man Tate, and Warner



Brothers' Michael Keaton vehicle Jack Frost, recently ran Final Cut Pro on a Power Macintosh G3. "As an editor, appreciated the intuitive and streamlined editing functions," Jordan says. "With the



subclips, and even automatically logging footage as it is being digitized, Final Cut Pro "is a terrific product for all different types of video," he adds. And its ability to print to tape without making a movie file is a serious bid for the affections of leading professionals, Matching Final Cut Pro with QuickTime and the new Power Vacintosh G3 with built-in FireWire provides a complete nonlinear video editing solution-creating the best real world synergy possible: People who make video for a living are actually able to make video for a living.



streaming video, audio, and virtual Fox Video Previe

Check out the classic Blue Indigo. QuickTime includes the QDesign Music Codec, a breakthrough digital audio

Visit www.apple.com/quicktime. Ther check out cool examples of QuickTime in action at the following sites.

# Turbocharging Donnelley

The new Power Macintosh G3 advances the "wow" factor with the synergy of brawn, brains, and beauty. Put to the test at RR Donnelley & Sons, the new Power Macintosh showed it could accelerate prepress performance and handle vertical applications with lightning speed

#### Like Olympic contenders vying for the gold, commercial printing companies know that every second counts in pre press production. File transfer rates, screen refresh speeds, and network throughput are critical measures of prepress efficiency in the hypercompetitive printing industry. Nowhere is this more true than at RR Donnelley & Sons Company, the largest commercial printer in the U.S. From 41 printing facilities run by some 26,000 employees, RR Donnelley produces everything from books, magazines, catalogs, retail inserts, and telephone directories to financial documentation. In 1997, sales topped \$4.9 billion.

Moving a Trillion Bytes a Month When Apple set out to test its new Power Macintosh G3 in the toughest environment it could find, RR Donnelley came immediately to mind. Operating constantly under tight deadlines and strict quality standards, Donnelley has been a longtime Apple user. Macintosh computers are in continuous use in all of its worldwide locations. Currently its prepress facilities move more than a terabyte (one trillion bytes) of data across a local area network each month.

Under a cloak of extreme secrecy. Apple delivered the new Power Macintosh G3 to Donnelley's Prepress Service Center in Elgin, Illinois, for testing. At this dedicated prepress facility, 100 employees electronically produce an average of 25,000 pages a month for such clients as The Good Guys, True Value Hardware, J.C. Penney and Sears Technical director Kevin Hekman, who heads the Elgin plant says he took Apple's instruction to "do your damnedest" literally and set about testing the Power Macintosh G3 with all

of their vertical-market apps. These included Adobe Photoshop, Scitex VIP RIP, FileMaker, AppleScript, interaction with AppleShare IP 6 servers, Windows NT servers, Shira's Super Combine, and whatever else they could find.

The advantages of the new Power Macintosh G3 can be summed up in two words: More and faster. More bays, more slots, and more on-board features; faster processors, faster caches, faster memory, aster PCI slots, faster drives, faster networking, and faster I/O. Donnelley's observations matched Apple's. "BYTEmark processor performance tests have shown us that the new Power Macintosh G3, even on the low end, outperforms system using the Pentium II 400 and the Pentium II 450," says Kendall Laidlaw, Apple Power Macintosh G3 product marketing manager

Going the Distance

Donnelley's test model included a 400megahertz PowerPC G3 processor, 1MB of backside cache running at 200 mega hertz, and 1GB of high-performance memory. It also sported 400-Mbps FireWire, 10/100BASE-T Ethernet, and four PCI slots, one of which is dedicated to an ATI RAGE 128 graphics card with 16MB of graphics memory.

Donnellev began testing the Power Macintosh G3 cautiously by transferring files to a Windows NT server. "That was the last thing we did slowly," says Hekman "The network copy to NT was very fast, and the file transfer times were great on the new Power Macintosh G3."

Then Hekman's prime tester, Tony Grondin, exposed the Power Macintosh G3 to "real world" situations to see how it handled the load. Images were opened from the server in Adobe Photoshop and

Vith up to a 400-megahertz PowerPC G3 processor, 1MB of ackside cache at 200 megahertz, and a system bus runnin t 100 megahertz, the Power Macintosh G3 is the machine ( choice for power Photoshop users.

	Apple Worldwide Events Calendar	Asia Pacific	Finland	France	Germany	Japan	Spain	Sweden	
	@	March South China Int. Exhibition Guangzhou, China	February 10–11 Print Media Fair Helsinki	February 9–12 Milia '99 Cannes	March 18–24 CeBIT Hannover	February 18–20 Macworld Expo Tokyo	February 3–6 MundoInternet '99 Madrid	April 13–15 Computer World—Expo '99 Stockholm	
		March 23–26 Comdex '99 Beijing, China					March 4–5 DVI '99 Barcelona		
	•						<b>May 28–June 13</b> Feria del Libro Madrid		
ł	2 www.apple.com/publishing								

#### Profile

# Making Money on the Mac

On January 1, 1999, member nations in the new European Union (EU) officially adopted the euro as its common currency—a move intended to build a single European market with a single, stable monetary system. But before the EU could issue new money, it first had to design it.

Most designers see their Apple computers as a way to make money but Austrian graphic designer Robert Kalina is more direct in pursuing this objective. He uses his Power Macintosh to design real money. Kalina has done this so successfully that he was chosen in a competition to design the first series of euro banknotes for the new European Union (EU). The euro will be the common currency for some 280 million

Europeans in 11 countries from Portugal to Finland, and soon Kalina's designs will be recognized and coveted around the world. Experience Necessary Kalina is well qualified to create the new

banknotes. Since graduating from the School of Graphic Arts in Vienna in 1975 he has worked at the Austrian National Bank designing Austrian currency. In February 1996, when the European Monetary Institute, or EMI (now called European Central Bank), invited experienced banknote designers to vie for the opportunity to design the euro, he was an obvious contender.

The EMI gave entrants until September 1996 to submit their proposed designs. To promote the goal of a united Europe, it specified the theme "Ages and Styles of Europe," and strictly forbade any images that could be associated with a particular country, including portraits of famous composers and artists. It also designated the basic colors for the seven banknotes. in denominations of 5, 10, 20, 50, 100, 200, and 500 euros. Even for seasoned banknote designers, these were daunting guidelines. since national heroes and landmarks are favorite visual themes

the library to identify potential subjects. At first he says he considered ways to denict people, since "it is an old tradition to have portraits on banknotes,"but ruled out that approach because "there's no value in using an unknown, anonymous face." Instead he hit on the idea of windows,

gateways, and bridges to symbolize "the There was still much work to be done spirit of openness and cooperation in the The final banknote designs demanded European Union." These visual subjects also allowed Kalina to address EMI's theme of ages and styles by representing Europe's illustrious architectural heritage

Kalina chose windows, gateways, and

bridges to symbolize "the spirit of openness

and cooperation in the European Union."

overlaying numerous exacting printing techniques intended to foil counterfeiters These techniques included offset printing. letterpress, silk screen, intaglio, watermarks and foil applications. Other sophisticated anticounterfeiting measures, ranging from special inks and micro-printing to covert ecurity details that can't be mentioned, had to be integrated into the design as well. "I start first to design for aesthetics," explains Kalina, "but I must have in my head the different techniques that will be built in by specialists after my design is complete."

collapse if actually built. Another EMI requirement was that the Despite these complications and revisions, currency serve the needs of the blind Kalina presented the EMI Council with and partially sighted. That meant creating finished designs for approval by June notes in different sizes and colors and 1997-a quick six-month turnaround from the time he was awarded the commission. "The Mac gives me many choices and

> begun printing some 13 billion copies of Kalina's designs to have banknotes ready for widespread circulation by 2002, when EU member nations will change over to

> > est ici til tel tel

2565678982

In addition to these challenges. Kalina had to make sure that his architectural images were indistinct enough not to be identified work on the Mac. It is quick and I can see with any known structure, yet true to results quickly. When you work by hand, it

giving them tactile properties and highly

legible numerals.

Romanesque, Gothic, Renaissance, Baroque and Rococo, the Age of Iron and Glass, and 20th-century modern. Even though Kalina altered the images on the Mac, at least one bridge-engineering expert recognized the Pont de Neuilly in Paris and several other well-known bridges. That sent Kalina back to his Macintosh to further disguise the sources of his inspiration. Following that, he had to consult with engineers to make sure a single currency. As of January 1, 1999, that he hadn't inadvertently distorted the "bridges" so severely that they would

the architectural styles of the seven "ages" of European cultural history-Classical

> the euro is recognized as legal currency in financial markets. With the clout of to many EU nations behind it, the euro is likely to become one of the most powerful monetary symbols in the world





Option-Shift-r on an AZERTY keyboard of Option-Shift-2 on a OWERTY keyboard

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three or four series, ultimately submitting two "It was a print output directly from the computer," he says. Creating Mass Appeal Kalina started his research by going to

EMI decision makers tested public perception of the leading designs by first surveying some 2.000 taxi drivers, retailers and others who handle a lot of cash and then soliciting the opinions of artists and communications experts. Kalina's design prevailed, much to his astonishment. 'I didn't believe I had a chance to win because of my decision not to use portraits," he says

"In the beginning, I scanned pictures

them in Adobe Photoshop," explains

Kalina, who uses Macromedia Freehand

for sketching. "For me, it is very easy to

may take some weeks, and then it may not

be right."With only about seven months to

develop his entry. Kalina was able to make

into the Mac from books and then changed

Apple Media Arts

## Mac OS 8.5 Delivers

Mac OS 8.5 delivers new productivity features for the Power Macintosh desktop: superfast network performance, task automation with AppleScript, and state-of-the-art color matching with ColorSync 2.5.1. Not to mention Sherlock, a tool that could revolutionize searching for information on the Internet. All of this-and more-for only \$99.\*

#### Smart Self-installation

Loading new system software can in timidate even the most experienced user; deadlines wait for no data disaster or downtime. But installing Mac OS 8.5 is a snap. You don't have to worry about system conflicts-the Installer takes care of that. And you don't have to worry about being offline for long; the built-in Internet Setup Assistant reconnects you easily to your ISP.

#### A Gumshoe in the Machine?

With earlier versions, copying a huge Just how nifty is the new Sherlock search graphics file took almost 40 seconds-even feature? First of all, starting a web search is longer on a busy network. However, in easy. You launch Sherlock, click the Search tests, Mac OS 8.5 copied a 185MB Adobe Internet tab, and then enter key words or phrases. And here's the best part: You don't Photoshon file in 18.8 seconds, as opposed to 23 seconds on Windows NT." Smoking, type in special signs like + or ? or :-). You Sherlock

#### AppleScript Automation Your Desktop Valet With new, improved AppleScript, it's easy

and fast to script networking, printing,

and ColorSync processes. From executing

commands in applications such as Adobe

use natural language to send Sherlock off and running-using multiple search engines simultaneously to find information on the Internet. When the search is complete. Sherlock sorts and summarizes

Photoshop, QuarkXPress, or Microsoft Word to customizing how windows appear on the desktop, AppleScript can improve any workflow-and save time and money. Mac OS 8.5 offers several preinstalled scripts, but you can also easily create your own.

Use AppleScript to combine text and images in a brochure template insid

the results by relevance to your topic. In one convenient window, you can scroll through the results and then click the URL to go instantly to a listed site. You can ever save search results to reuse later

publishing production scenario. Let's Yes. Sherlock performs the routine "find say you want to automate the process of file" search. But it also searches any volume creating a product brochure for print in on your system by content. Let's say you QuarkXPress. First you create a folder in want to find a paper you know you've which you will perform specific tasks, or seen in your department on the topic of actions. You create these Folder Actions birth order and sports ability. Launching by attaching scripts to the folder-in this Sherlock, you'd select the Find Content tab case, the Create folder. You then initiate the and then enter your key words-something AppleScript Folder Action by dragging text like "relationship between birth order and and image files and the brochure template sports ability"-to send Sherlock off to into the open window of the Create folder. search all indexed volumes. The QuarkXPress application and template

#### Speaking of Speed ...

Mac OS 8.5 also speeds file transfer. With the built-in Network Browser, navigating network file servers is as quick and easy as opening a folder on the desktop. This new operating system was designed for speed. And we've got the data to prove it.

AppleScript matches images and text files to their respective pages and placeholders according to filename. For example, an image with the filename P-01 can be cross indexed to the product image placeholder on the first product page. Similarly, an image with the filename P-02 is placed in the product image placeholder on the second page, and so on.

the brochure

file open, beginning the process of creating

Here's a possible graphics or desktop

With new, improved AppleScript, it's easy to script networking, printing, and ColorSync processes. Mac OS 8.5 offers several preinstalled scripts-or you can create your own.

> The script continues to build the brochure. adjusting the images to fit the designated OuarkXPress image placeholders. The script then applies character styling to the imported text files-in this case, depending on whether the text is a product description or a specifications list. web pages from your QuarkXPress

When the script finishes processing the document brochure, it creates a new folder on the desktop named "Brochure." It then saves the brochure file in the new folder, along with the related image files. A final script action closes the document and switches to the desktop. Voila!

information in the server log database. copies this information to the server, and then opens a media asset database and adds each item to it. The components of both the brochure and the HTML pages are organized and archived on the fly. Achieving High-fidelity Color



And that's not all. Next, we can drop the Calibration Assistant, support for 16-bit brochure file into a scripted folder labeled per-channel images, and iMac display "Convert" to transform it into a web-ready support are a few of the new features piece. Here, scripted processes convert that help the graphics crowd achieve Photoshop images to GIFs, convert text to repeatable, reliable, and consistent color HTML, and create hyperlinks and buttons. on screen, in print, for electronic delivery In a matter of moments, AppleScript builds or on the World Wide Web.

The Result?

control throughout the average graphics

workflow, as well as CMM (color manage-

ment module) support for Linotype.

Kodak, Agfa, and Imation, A Monitor

Improved Overall Performance Other great things about Mac OS 8.5? Finally, we can drop both the brochure The beefed-up Help Center is a more and the HTML pages into a scripted interactive HTML-based system, and Catalog folder that will log the various includes both Mac OS and AppleScript items into a media asset management info-packed help. The new Application system. The script logs each item's Switcher palette lets you create a floating toolbar for one-click access to all open applications. Now you can print by dropping any file onto a desktop printer icon-without launching the application. And here's a favorite: Your Internet connection terminates automatically when

it's been inactive longer than a specified Graphic designers and production artists interval. (This feature alone could save rely on ColorSync, which maintains color some users \$99 in just a month!) in translation between scanners, cameras, Note: Mac OS 8.5.1 corrects bugs and adds ne Sherlock features. The software is available for

monitors, printers, and the web. Now oad at www.apple.com/macos free of charge browser-savvy, ColorSync 2.5.1, bundled with Mac OS 8.5, provides color-matching

edited and saved to the server. Lowresolution images were generated in Photoshop with Scitex PSImage export and saved directly to the server. Images were brought into QuarkXPress from the server. PostScript files were printed to the server and were ripped using Scitex VIP to generate Continuous Tone (CT) and Line Work (IW) files for proofing. CT and IW were combined into a composite TIFF and imported into QuarkXPress to print laser proofs on a Canon ColorPASS 1000. All files were opened, saved, and generated directly on the server. "The new Mac gives faster

redraws in Photoshop and you don't have to wait as long for screens to refresh, so operators can spend more time doing productive work and less time waiting because their machines are locked up. Grondin notes.

#### Conceived by Apple's industrial design group, led by Jonathan Ive, the computer features a translucent enclosure with angled corners and cool colors. With the new swing-out side panel, accessing cards, drives, and memory is as easy as opening a desk drawer. The interior real estate houses everything-drives, slots, memory, and performance-with a keen eve to space efficiency. Match all this with the new line of

Apple Studio Displays, which includes the 15-inch active-matrix flat-panel Studio Display, the 17-inch (16.1-inch viewable) Diamondtron-based Studio Display. and the 21-inch (19.8-inch viewable) Studio Display complete with ColorSyna technology, and you have one beautiful, brawny machine that will pull its own weight even under the most sophisticated and demanding conditions.

In almost every instance, from job start

to finish, the new Power Macintosh G3

Elgin plant's current systems-a Power

233-megahertz card, a 266-megahertz

Power Macintosh G3. "Let it be said."

faster. Considerably faster!'

A Seductive Performance

didn't see-since the system was de-

livered in a plain metal housing-was

Macintosh 8500 with a Newer Technology

Power Macintosh G3, and a 233-megahertz

was about two times faster than the

"In the printing industry, speed means productivity, and productivity means profitability," says Kirk Brauch, LAN/WAN specialist at Donnelley. "With the publishing industry switching over to digital formats, we believe that by the end of the year 2000, Donnelley prepress operations will be moving somewhere between 10 and 15 terabytes of data per month. The new Power Macintosh G3 is an important

## hotoshop Runs 37% Faster

the Power Macintosh 9600/300 wher running a 20MB file through 16 comm Adobe Photoshop 5.0 operations.

#### Memory-intensive Graphics Rendered 224% Faster

\*Graphs reflect percentage increase

erland		United Kingdom	United States	Uruguay
<b>y 21–23</b> 99; ZOOM	<b>April 14–18</b> Salon Multimedia Geneva	January-December 1999 UK City of Architecture www.glasgow1999.co.uk	March 1–5 Seybold '99 Boston	<b>April 5–9</b> Apple Punta Punta del Este
<b>ry 10–12</b> Expo iEX '99	April 27–30 Computer '99 Beaulieu-Lausanne		<b>April 19–22</b> NAB '99 Las Vegas	
<b>25–27</b> onal Imaging				

## Investing in the Artist, Not Just the Art

automates repetitive computer tasks o users can focus on creative ones These Apple technologies have become the "pillars of publishing"-tools for establishing a competitive advantage in the information age, or in the age of the cyberstudio. They let you master he media before it masters you

Currently more than one million people Apple Computer is launching "Apple are using ColorSync. AppleScript is Media School" at Sevbold Boston in March to increase that probability. the number one web programming language for CGI development. And Apple Media School is a web-based QuickTime is the recognized standard certification and accreditation program for digital video, with over 344,000 content creators using it to create and distribute digital media.\* What's more publishers and designers have found that their computers are paid for faster when these technologies are used to their full extent. For example, studies reveal that running AppleScript for four hours a week to customize advertising lavouts and convert print newspapers to HTML format for the web represents the equivalent output of five full-time employees for a week. Using QuickTime supported software and hardware in a digital video workflow improves productivity 309% over analog methods. ColorSync has been shown to reduce approval times, mistakes, consumables

and proofing cycles when used as a color management solution for remote viewing, collaboration, and soft proofing. help them stand above all others.

Designer Tamotsu Yagi

We use available Japanese and FileMaker Pro. Adobe Photoshop. QuarkXPress, Macromedia Freehand Netscape Navigator, Japanese Mac Adobe Acrobat, and Microsoft Word.

until after I left Esprit in 1991. Our first assignment was to produce a Japanese version of Irving Penn's book, Passage, using Japanese Mac software. Now the



Lastation par

Febru Interne Zurich conducted by Arole. Large (185MB) files were conied over 100 Mbrs Ethernet from a 300-MHz Power Macintosh G3 client to two servers: a 300-MHz Macintosh Server G3 running AnoleShare IP 6.0 and a 400-MHz Pentium II-based server running Windows NT Server 4. 4c Computer Inc. All rights reserved. Apple the Apple https: AppleStrate, Colordine, TrefWire, Mat, Macinino, Jano Powerback manual Apple apple Strate, Colordine, TrefWire, Mat, Macinino, Jano Powerback manual Apple apple Strate, Colordine, TrefWire, Mat, Macinino, Jano Powerback manual Apple apple Strate, Colordine, TrefWire, Mat, Macinino, Jano Powerback manual Apple apple Strate, Colordine, TrefWire, Mat, Macinino, Jano Powerback manual Apple Apple Strate, Colordine, TrefWire, Mat, Macinino, Jano Powerback manual Apple Apple Strate, App March Profess Zurich

6 www.apple.com/publishing









graphic language for all of us

stores in Paris and New York, and a new clothing brand, also by Atsuro Tayama, called Voice Mail. For World, we've done almost 50 brand identity in the U.S., Japan, and Europe. programs, including name and retail We are all fluent in Apple. concept creation, visual merchandising

#### retail interiors and showroom designs, Toughest project ever done advertising, and packaging. We also

keep our Mac computers busy handling No one project stands out as the most assignments for clients such as Benetton Italy, Esprit, Intel, and The Beveler Museum in Switzerland, Our PowerBook is reserved mostly for administrative and bookkeeping chores



totally 🔟



into a final lavout

Mac 9600 🔵

# erformance speed. Actual application erformance may vary.

**Janua** Digital Bern





Point of View by Jeff Martin

if people were the largest cost, then training was the best investment. Although desktop technologies have become more accessible with the emergence of the World Wide Web, digital video, and "drag and drop, point and click" publishing, the underlying technologies require more training, not less. Still, these sophisticated tech nologies are the very reasons people buy Macintosh computers: ColorSync offers consistent color fidelity between applications and media. QuickTime

hardware, people, and paper can be as much as 36 times higher than the original investment?

Apple User Bio

facilitates the creation of media-rich content and digital video. AppleScript

In fact, a study showed that when using ColorSync, the return on investment in

Visit Apple Media School at www.apple.com/pi \*GISTICS Primary Research, October 1998.

bookstores

sponsored and supported by top universities, graphic arts schools and professional training organizations The courseware and instruction spans curriculum and testing on the web and includes books and CDs provided by sponsoring schools or through local Our goal with Apple Media School is to get beyond the hype of "media

When used as part of your graphic

design workflow, the powerful Apple

technologies hidden behind the Mac

a financial return within weeks, not months or years. But that's only if

you use them

OS smiley face can make the cost of your computer incidental, or provide

Winter 1999

convergence" and help publishing customers converge on new job opportunities and technology skills As Apple continues to grow in the publishing industry, with our new Power Macintosh G3 computers and even more exciting versions of the Mac OS, we want to give back to our customers and ensure their growth in the ecosystem that makes up the worldwide design and publishing industry, and with Macintosh

language for all of us in the U.S., Japan

Current projects on the Macintosh

and Europe. We are all fluent in Apple.

largest and most successful clothing

companies in Japan, has kept us quite

busy. Among its many enterprises are

Indivi by Atsuro Tayama, which has

World Company Ltd., one of the

Well-known in Japan before coming Most frequently used to the U.S. in 1984. Tamotsu Yaqi Macintosh technologies introduced his Asian aesthetic sensibility to American design and quickly won

acclaim for creating the famous Esprit graphic look. In this Apple biography, he explains why his San Francisco studio

#### First project on a Macintosh My studio didn't use the Macintosh

entire studio works on the Mac Main reason for embracin the Macintosh

is Mac-based.

#### It's clean, fast, flexible, and consisten With Japanese and English software versions available, it is easy to work on a Macintosh; you can just click on the

tool bar to switch between languages. The Mac facilitates teamwork, too, For example, an English-proficient designer can work on the English copy on one Mac, while someone else uses a Mac to work on the Japanese text, while

#### another handles graphic details and someone else scans in images. Becau our Mac systems are networked, we

difficult, but we do have an ongoing challenge because we have so many Japanese clients and collaborate with creative people worldwide. As recently as three years ago, that meant sending



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