

TESTED: A3 PHOTO PRINTERS

THE WORLD'S BEST-SELLING APPLE MAGAZINE

WIN AN iPad

Macworld

MAC / iPhone / iPad

iPad *vs* Mac

Can the iPad replace your Mac and iPhone?

REVIEWED

Adobe CS5

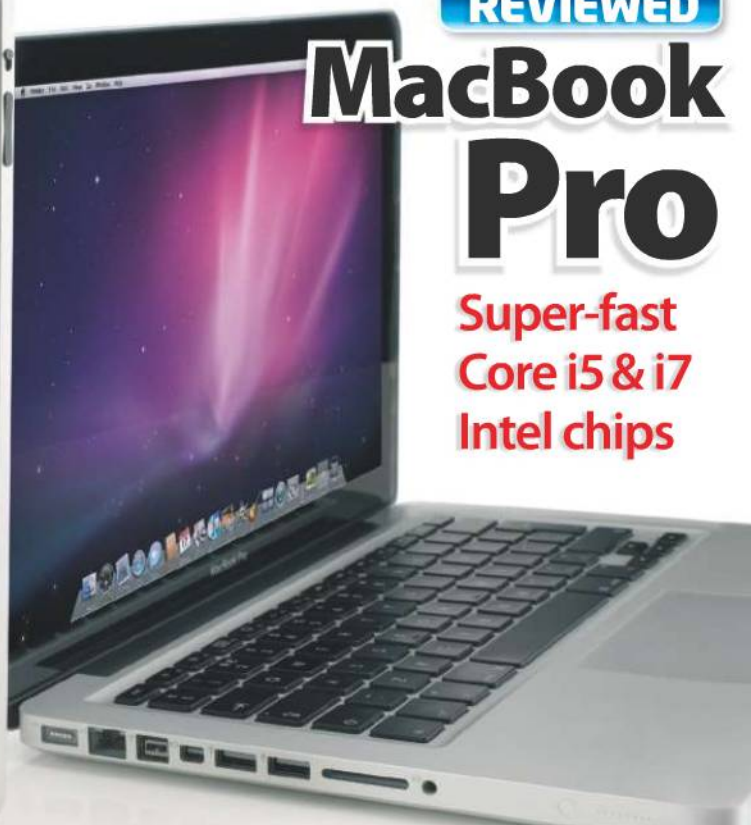
Photoshop,
InDesign
& Illustrator



REVIEWED

MacBook Pro

Super-fast
Core i5 & i7
Intel chips



FREE CD INSIDE!



iPad apps

Resident Evil, Call of Duty
and more apps reviewed



Pages on the iPad

First part of our guide to
iWork on the iPad



Tweak Mac preferences

Essential changes that make
your Mac work the way you do



JULY 2010 £5.99



I AM HI FIDELITY



I AM THE NIKON D300S. I am all singing all dancing. I feature a 12.3 megapixel Nikon DX format CMOS sensor, Nikon D-Movie high definition video, stereo sound recording (via a separate mic), dual card slots, both CF and SD formats and shooting speeds up to 7fps. I am your directing debut. www.nikon.co.uk

For 2 year warranty on any camera and lens kit simply register your new Nikon purchase. Call 0800 408 5060 or visit www.nikon.co.uk/register.

At the heart of the image



contact

EDITORIAL

Editor

020 7756 2877

Editor in chief

020 7756 2879

Online content manager

020 7756 2877

Art editor

020 7756 2878

Production editor

020 7756 2876

Sub editors

US editor

Contributing editors

Rob Beattie, Neil Bennett, Christopher Breen, Megan Burger, Michael Burns, Nesson Cleary, Lex Friedman, James Galbraith, Whitson Gordon, Craig Grannell, Rob Griffiths, Karl Hodge, Andy Ihnatko, Simon Jary, Joe Kissell, Kirk McElhearn, Rob Mead, Meghann Myers, Steve Paris, Jonathan Seff, Gina Trapani, Brendan Wilhide

ADVERTISING

Group advertising manager

020 7756 2832

Deputy group advertising manager

020 7756 2835

Account manager

020 7756 2833

Senior sales executive

020 7756 2836

Senior sales executive

020 7756 2834

PRODUCTION

Head of production

020 7756 2839

Deputy production manager

020 7756 2840

Head of online ad operations

CIRCULATION & MARKETING

Group marketing manager

Assistant marketing manager

SUBSCRIPTIONS

Subscriptions hotline

01858 438 867

FINANCE

Financial director

Credit controller

Purchase ledger clerk

Management accountant

PUBLISHING

Publishing director

020 7756 2801

Managing director

Karen Haslam

karen_haslam@macworld.co.uk

Mark Hattersley

mark_hattersley@macworld.co.uk

Nick Spence

news@macworld.co.uk

James Walker

james_walker@macworld.co.uk

Nicola Morrison

nicola_morrison@macworld.co.uk

Catherine Yates, Jo Kendall

Jason Snell

Aayush Arya, Jeffery Battersby,

James Poulson

james_poulson@idg.co.uk

Selen Sevkett

selen_sevkett@idg.co.uk

Alex Ryan

alex_ryan@idg.co.uk

Ben Hakki

ben_hakki@idg.co.uk

Michael Fletcher

michael_fletcher@idg.co.uk

Richard Bailey

richard_bailey@idg.co.uk

Fay Harward

fay_harward@idg.co.uk

Mike Cartwright

mike_cartwright@idg.co.uk

Nikki Causer

nikki_causer@idg.co.uk

Emma van Beurden

emma_vanbeurden@idg.co.uk

macworld@subscription.co.uk

Chris Norman

Dawnette Gordon

Lyn McNicol

Parit Shah

Mustafa Mustafa

mustafa@idg.co.uk

Kit Gould



Macworld is a publication of IDG Communications, the world's leading IT media, research and exposition company. With more than 300 publications in 85 countries, read by more than 100 million people each month, IDG is the world's leading publisher of computer magazines and newspapers. ISSN 1356-9503

IDG Communications, 101 Euston Road, London NW1 2RA. Macworld (UK) is an independent journal not affiliated with Apple Computer. Apple, the Apple logo, Mac, and Macintosh are registered trademarks of Apple Computer.

All contents © IDG 2010, except when © Mac Publishing LLC. Printed by St Ives (Roche).



Macworld's ABC-audited circulation is 23,518 (Jan – Dec 2007).



Karen Haslam, Editor

www.macworld.co.uk/blogs

Apple's being a bit of a playground bully

Apple battles

Wow. Apple's been in a bad mood this month. Things had been going so well, what with the tremendous sales of the iPad, and the launch of the new MacBook Pro, but a few other issues have been getting Apple's goat.

There's the ongoing argument over whether Apple should allow Flash on the iPhone and iPad. First Apple CEO Steve Jobs wrote an open letter venting his "Thoughts on Flash" and giving reasons why Apple does not, and will not, include Flash on its mobile devices. Then Adobe CEO Shantanu Narayen retaliated, saying Apple makes things "cumbersome" for developers, and suggesting Flash crashes on the Mac due to problems with Mac OS X, not Flash, as Jobs maintains.

But it's not just Adobe that Apple's been battling with. The company was less than impressed with a journalist, Jason Chen, who acquired Apple's lost iPhone prototype and published the details. Apple was so upset it filed a legal document claiming the publication of photos of the iPhone prototype were "immensely damaging". As a result, police raided Chen's home.

Apple has faced criticism for its stance on both matters. With regard to Flash, feedback has been split, with some saying Apple is right to avoid relying on "an inferior third-party tool", and others saying Apple is being uncompetitive.

With regard to Apple's 'heavy-handed' approach to the iPhone prototype fiasco, just about everyone has been chiming in, including *The Daily Show* host Jon Stewart, who ranted against Apple, saying: "Microsoft was supposed to be the evil one. But you guys are busting down doors in Palo Alto while Commandant Gates is ridding the world of mosquitoes! What the **** is going on?! It's all mixed up!"

Has Apple undergone a personality transplant? Not really; this isn't the first time Jobs has got all hot under the collar about an issue. The difference is that now Apple is so mainstream everyone is talking about it. Is Apple right to get het up about these issues? Probably. Is Apple still the rebel and the underdog it was back in 1984? Probably not. It's got a lot more to lose now, and a lot more to fight for.

ORDER ONLINE: anvika.com

ORDER BY PHONE: 020 7467 6050

Please quote MacWorld when ordering, or visit www.anvika.com/macworld

iMac

MacBook Pro



21.5"

3.06Ghz, 4GB DDR3

500GB

£939

MAC11785

1TB

£1189

MAC11786

27"

3.06Ghz, 4GB DDR3

1TB

£1336

MAC11787

2.66Ghz Quad, 4GB DDR3

1TB

£1585

MAC11788

13" **NEW!**

2.4Ghz, 4GB DDR3, 250GB

£999

MAC12637

2.66Ghz, 4GB DDR3, 320GB

£1249

MAC12638

15" **NEW!**

2.4Ghz i5, 4GB DDR3, 320GB

£1619

MAC12647R

2.66Ghz i7, 4GB DDR3, 500GB

£1799

MAC12649

GLOSSY

17" **NEW!**

2.53Ghz i5, 4GB DDR3, 500GB

£1899

MAC12655

GLOSSY

2.66Ghz i7, 4GB DDR3, 500GB

£2139

MAC12655V

ANTI-GLARE

Can't see what you're after? Further configurations across all models are available on request.

Software & Networking



Aperture 3

Aperture 3 is the perfect choice if you're ready to take your photography to the next level. Upgrade

£149.99

MAC7228M

£69.99

MAC7228U

NEW!



3M MPro 150

- Hand-held, battery-operated projector
- Displays images and videos from computers and mobile devices
- 1 GB memory + microSD card reader (2 GB inc)

£349.99

MM10-40300



Teleadpt Mini DisplayPort

+ USB Audio to HDMI Adapter

Integrates Mini Displayport video signal and audio signal from USB port into HDMI output.

£39.99

TAD35500



3 Mobile Mi-Fi 3GB - Data

Your own personal mobile Wi-Fi connection. Connect multiple Wi-Fi enabled devices and get fast internet speeds with no wires, no hassles and no need for a Wi-Fi hotspot.

£69.99

THR56112

Free UK delivery on web & phone orders over £49.99

Accessories



HP Officejet 6500

Wireless Printer/Scanner/Fax.

£129.99*

HEW34415

*Valid from 26/05/10 to 22/06/10.



Flip Mino II HD 8GB

Pocket sized HD camcorder.

£179.99

FLJ5212



SAVE

£40

was £149.99

Lacie Neil Poulton 1TB

Features an innovative design with FireWire 800 & USB2.0

£109.99

EDD93564A



WD MyPassport Studio

2.5" USB2.0 Powered with FireWire 800/USB2

500 GB

WES3346C

£119.99

640 GB

WES3348E

£139.99

E&OE - 08/03/10 All prices include VAT.

MICRO
ANVIKA

Westfield
LONDON

Harrods

Bentalls

Ferwick

STORES LOCATED IN CENTRAL LONDON, CROYDON, KINGSTON-UPON-THAMES AND NEWCASTLE



Authorised Reseller

www.WorldMags.net & www.aDowns.net

Contents

Inside this issue of Macworld...



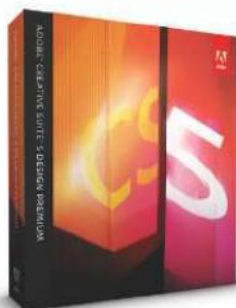
47 iPad vs Mac

Does the iPad really have what it takes to replace your MacBook or iPhone when it comes to entertainment and office matters?



18 MacBook Pro reviewed

We find out just how good the new Core i5 and i7 MacBook Pros really are



23 CS5 Design Premium

We review Adobe's newest versions of Illustrator, Photoshop and InDesign



On the cover

- 36 iPad and iPhone apps reviewed
- 39 A3 photo printers tested
- 70 Using Pages on the iPad
- 89 Win a 3G iPad with Elgato

69 Win an iPad! Vote in the 2010 Macworld Awards

Macworld
Awards 2010

Make your views count by voting for the year's best products and be in with a chance to win a 64GB 3G-enabled Apple iPad, an iPad Keyboard Dock, and Apple's leather iPad case



Log on to:
www.macworld.co.uk/nominations
and have your say



News

The latest from the Mac world



10 UK iPad on-sale date announced

Apple said the iPad would ship in the UK on 28 May, now the pre-order date is set for 7 June

12 iPhone 4.0

features uncovered

Beta version of iPhone OS 4.0 reveals new features and hints at hardware upgrades



61 It's a Google world

From Calendar and Docs to Voice and Wave we find out how well Google's productivity tools work on your Mac

Regulars

- 3 Welcome
- 8 Readers' letters
- 17 Opinion: Simon Jary
- 82 CD contents
- 84 Subscribe to Macworld
- 99 Apple reseller guide
- 100 Macworld service directory
- 102 Macworld buyers' guide
- 114 Opinion: Andy Ihnatko

84 Subscribe

SAVE 31%

JUST £24.99

Save £11 on a six-month subscription

FREE GIFT

Claim a free pair of noise-reducing headphones when you subscribe

FREE DELIVERY

Macworld to your door each month

GET IT FIRST

Every issue before it's in the shops

Go to www.subscription.co.uk/macw/jy10 to choose your free gift now!

* UK Direct Debit subscription price.



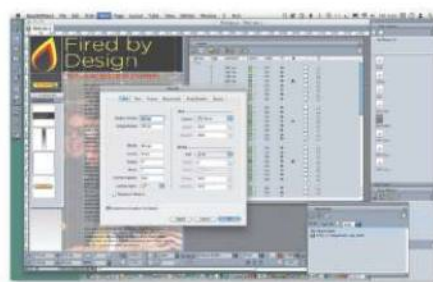
Macworld Masterclass

Develop valuable new skills with these expert tutorials



70 Use Pages on the iPad

Learn how to create a document using Apple's Pages app on the iPad



74 QuarkXPress web pages

Transfer your print design skills to the web using the interactive elements in QuarkXPress 8

78 Control a Mac via your iPad

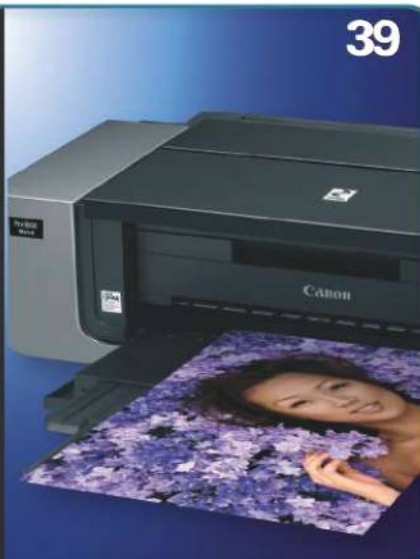
Use LogMeIn Ignition to access your computer from your iPad





Group test A3 photo printers

Will the wide range of inks in these professional printers make your photos pop?



39



32 In-ear headphones

We find out if its possible to get a decent pair of earphones without spending a fortune

Reviews

18 Apple MacBook Pro

We test the new 13in and 15in models



23 Adobe InDesign CS5

24 Adobe Illustrator CS5

26 Adobe Photoshop CS5

28 Mamut AccountEdge 2010

28 LogMeIn Pro 2

30 Blue Microphones Yeti

30 Particle Systems Streamtime 10



24

34 Mac gems

Instapaper

FileChute 4.3

Minotaur in a China Shop

Burn

Guitar Pro 6

36 iPhone & iPad gems

Articles

Resident Evil 4 iPad Edition

Camera Plus Pro: Photo+Video

OmniGraffle for iPad

CoD: World at War: Zombies for iPad

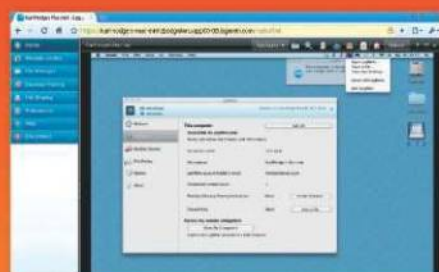
39 A3 photo printers

Canon Pixma iX7000

Canon Pixma Pro9000 Mark II

Epson Stylus Photo 1400

Epson Stylus Photo R2880



28



Secrets & Help

In-depth training to help you get the most out of your Mac



87 Media backup tips

Never lose your precious media files, from iTunes content to ripped CDs and DVDs



92 Party camcorder tips

Create a movie that's as much fun to watch as the event was to attend



88 What's your preference?

Essential system tweaks to make your Mac work the way you do



Mac Help

94 Archive iPhone SMS

94 Type accents

97 Back up iDisk

97 Search Safari history

98 Two Time Machines

98 Moving iTunes Library

98 Convert AVCHD files

Win a copy of QuarkXPress 8.1!

The best letter we receive each month wins a copy of QuarkXPress 8.1 courtesy of Quark (euro.quark.com), 0800 032 5714. This month's copy goes to Don McClymont. Send your letters to editor@macworld.co.uk (Please include your full name and address).



Super Gran

You recently mentioned a little old lady on a bus with an iPhone. My wife, who is 74, refused to use computers for years.

Eventually she bought a MacBook, but still wouldn't send emails, or use it for much else for that matter.

A few months ago, she got an iPhone and is now happily sending messages and emails from it. She is now "Cool Gran"!

She was in New York last week for her birthday and bought an iPad 32GB home for me, so now I'm cool too. It's not such an achievement for me though, as I have been a regular Mac user for 14 years and am only 60 – or will be in September (I was a 'toy boy' when we met nearly 30 years ago).
Don McClymont

Apple co-founder Steve Wozniak was saying recently that he thinks that the older generation are a prime target for the iPad, so maybe if you let your wife have a go on yours she will be won over to the wonders of computing (rather than just sending emails on her iPhone). Watch out, she might not let you have it back.

Cover star

I've never seen my son, Owen, as happy as the day he picked up your May 2010 issue and saw he was on the cover. He says he is living the Mac dream now he's been a cover boy.

He bought his first Mac when he was 10 years old after performing in *Oliver* at The London Palladium. He now has four Macs – G4, G5, PowerBook and MacBook Pro, and is desperate to get an iPad. He owns most Apple products, including a new MacBook Pro and multiple iPods and iPhones. He gets ribbed by his mates for his Mac obsession.

Recently, when working on *Jersey Boys* at the Prince Edward Theatre, he had a queue of people with Mac queries and says he was running his own Genius Bar backstage.

In his spare time he plays in the group The Blues Brothers

Banned and over the past few years has converted most of his bandmates to the Mac.

Jill Visser

It's great to hear the story behind the face. We thought that the photograph of Owen (which was from Getty Images) summed up our idea of working on the move perfectly.



Living the dream Our May issue cover illustrated the mobile Mac life. On the left is Owen Visser who is set for a glittering career in theatre or at the Genius Bar

Convert mission

I'm hoping to get myself a Mac – at the moment I am in the process of saving up (and trying to win the lottery) to buy one! Two of my closest friends use Macs and they agree that it would be a good move for me to get one. I will be using mine for video projects and contributing material for a charity magazine. I'll let you know how I get on with the switch to Mac.
Andrew D Murr

You can rest assured that when you do get the money together you will be spending it well. While Macs may seem to be more expensive than PCs, they are actually very respectably priced when you compare a Mac and a PC based on the specs of the machines. True, you can pick up a very basic PC for very little, but it is basic. You are definitely better off saving up and getting a Mac.

Alternatively take a look at Apple's

online refurbishment store to see if there are any good deals at <http://tiny.cc/refb>.

Sent items

I sent Steve Jobs an email saying how much I liked the iPhone and asked him if there would be major styling changes on the new model. He replied "looking good".

How cool is that!

Justin Welsh

Congratulations on getting a reply from Jobs. Some would say that's the modern equivalent of an autograph. In recent months Jobs has taken to sending short and sweet replies to some emails from customers. The emails aren't always so sweet, however.

Recently Jobs has replied "No" to the question of whether the iPad would support tethering; "Not to worry" to a customer who was concerned that the MacBook Pro and Mac Pro hadn't been updated; and "This is what happens when your MacBook Pro sustains water damage. They are pro machines and they don't like water. It sounds like you're just looking for someone to get mad at other than yourself" to a customer who complained that Apple wanted him to pay just to see if it would be possible to repair his water-damaged laptop.

MacBook or iPad

I'm in need of a new laptop. I've only ever had an iPhone from Apple so I don't know much about Apple computers but I loved how the MacBook Pro worked when I tried one out in the Apple Store. Should I get a MacBook Pro or wait for the iPad?

Jade Naylor

You'll need a Mac or a PC to set up your iPad, and chances are you'll want to sync up the devices from time to time.

Really the iPad is a secondary device, we don't think you could completely replace a computer with it – read our feature on page 47 for more information.

Our advice would be to get a Mac. The type of Mac you get depends a lot on the kind of thing you want to do with it. If you'll just be sending emails, writing the odd Word document, and surfing the web then the white MacBook will probably be enough for you (it costs £816). You'll also benefit from the suite of iLife apps that comes with every Mac and includes iPhoto, iMovie, and more.

Despatches

I ordered a 27in i5 iMac from the Apple Refurb Store on Monday 12 April before 10am. I received an email later that day saying the order had shipped. UPS arrived at 3pm the next day with a big white cardboard box. I have since found that my desk isn't really big enough. I'm sure I'll get used to it.
Terry Fowler

That's a quick turnaround. We've used the Apple Refurb Store ourselves for buying various pieces of Mac kit and have always had a good experience. The best bit is that you can save yourself a fair bit of money buying Macs and other Apple products this way – but hush, we don't want everyone to know, or all the best stuff will go. MW



Mac verses iPad Thinking of getting your first Mac? Will an iPad fit the bill? We look into this in detail in our feature on page 47



HyperMac Mini



HyperMac Nano
1800mAh
Recharge iPhone 1.5X



HyperMac Micro
3600mAh
Recharge iPhone 3X



HyperMac Mini
7200mAh
Recharge iPhone 6X

Product shot by Thomas Hubert / iStockphoto.com/Thomas Hubert

10 different colors, 3 different sizes
Recharge the iPhone 1.5/3/6 times

HyperMac
HyperMac

Battery Pack
for iPhone, iPod, iPad, USB devices
for MacBook, MacBook Pro/Air
Power your MacBook up to 34 hours!
Or recharge the iPad up to 9 times!



Visit > hypermac.eu/mw
Call > +31-(0)-26-4720801



HyperMac 60Wh
Extend up to 14 hours



HyperMac 100Wh
Extend up to 18 hours



HyperMac 150Wh
Extend up to 25 hours



HyperMac 222Wh
Extend up to 34 hours



Car Charger
for MacBook

iPad reaches the UK

The iPad arrives in Blighty after delays, having sold one million US units in just 28 days

After a month's delay, the iPad has finally made it to the UK. The device was made available for pre-order on 10 May, with a shipping date of 28 May, but due to demand the shipping date of the device is now listed as 7 June (although Apple says it will honour the 28 May date for anyone who had already placed an order). Apple also confirmed that the iBookstore (and the free iBooks app) will be available internationally on 28 May.

Apple's suggested retail pricing for the iPad in the UK begins at £429 for the 16GB WiFi model. The 32GB and 64GB models are £499 and £599, respectively. WiFi + 3G models of each iPad are an extra £100 respectively.

Pricing backlash

No sooner had Apple released its international pricing than there was a backlash, with many people complaining that Apple was ripping off its non-US customers. In the UK, for example, the 16GB WiFi model costs £429, which is roughly \$640, that's \$140 (£96) more than the US price. However, US prices are shown without taxes, since they vary by state. By contrast, prices on the UK Apple Store include VAT at 17.5 per cent.

With VAT taken into account, the discrepancy between UK and US prices is much lower – about £30 for the 16GB WiFi model, and about £40 for the most expensive iPads, but as low as £20 for the 32GB WiFi + 3G model. With angry customers emailing him, Steve Jobs reportedly responded directly to one UK customer, suggesting they educate themselves about British taxation.

"One million iPads in 28 days – that's less than half of the 74 days it took to achieve this milestone with iPhone"

Steve Jobs, Apple CEO

Some British networks are offering SIM-only iPad data deals that won't lock you into a contract. Orange (shop.orange.co.uk/ipad/) offers 200MB per day for £2 or 1GB per week for £7.50. Alternatively, you can pay monthly for data and WiFi (via The Cloud and BT Openzone): £15 for 3GB or £25 for 10GB of data. O2's packages (shop.o2.co.uk/ipadtariffs/) all include WiFi – 500MB per day is £2, 1GB a month costs £10, and 3GB a month costs £15. Vodafone (www.vodafone.co.uk/ipad/) only offers monthly plans – £10 for 1GB, £15 for 3GB and a £25 'Unlimited' deal.

Sales targets

While it remains to be seen whether the iPad will be a big hit in the UK, Apple wasn't exaggerating when it claimed it was having trouble meeting demand. Just 28 days after the iPad's US launch, it sailed past the one-million sales mark, a milestone that took the original iPhone 74 days.

The 3G-enabled iPad also managed to practically sell out after a week on sale, forcing customers onto waiting lists. Analysts were



Launch pad The iPad sold more than one million units in the US in just 28 days

torn over the reason for the shortages – Apple stockpiling units for international sale, a shortage of touchscreens, or sales predictions being too pessimistic.

Whatever the reason for the shortage, Apple can celebrate the fact that iPad owners aren't putting away their wallets once they've got their hands on a unit; on the contrary, Apple revealed that by the start of May, more than 12 million apps and 1.5 million ebooks had been downloaded by iPad users. There are also over 5,000 iPad-specific apps available, boding well for the future of the platform.

Craig Grannell, Daniel Ionescu, Jeff Bertolucci

Law called in iPhone row

Comedians tear into Apple after Gizmodo computers are seized by police

The Gizmodo 'lost' iPhone case continues. A California police task force has seized personal computers belonging to Gizmodo editor Jason Chen. Chen revealed details about the next-generation iPhone in an article last month. The device was accidentally left by an Apple employee in a bar and sold to Gizmodo for \$5,000.

Arguments raged about the raid's legitimacy. Gizmodo owner Gawker Media argued the warrant to seize Chen's property was invalid, since it targeted Chen, a journalist, who Gawker says is protected under California law from such searches. Digital rights advocacy group The Electronic Frontier Foundation agreed, citing "federal and state laws in California that protect reporters and journalists from search and seizure for their news gathering activities". EFF's Civil Liberties Director Jennifer Granick argued that Chen should have

had "an opportunity to segregate potentially responsive information from private information".

The episode could become a PR disaster for Apple if Chen is charged and his case is turned into a cause célèbre. Satirist Jon Stewart berated Apple on *The Daily Show*, suggesting Apple had gone from being a rebel to "the man". Comedian Ellen Degeneres also took a pop at Apple in a spoof iPhone ad. Claims of Big Brother-like behaviour have also further fuelled speculation of a possible antitrust suit against Apple by the Department of Justice or Federal Trade Commission.

The Gizmodo case bears some resemblance to that of Think Secret. In 2005 Apple named Think Secret and other sites in a lawsuit, claiming it had misappropriated trade secrets about a confidential audio product code-named "Asteroid." At the time of the case the



Phone in Gizmodo has got itself into a spot of bother with Apple over its coverage of a prototype iPhone that was found in a bar

Electronic Frontier Foundation appealed on behalf of the defendants, indicating that they were entitled to protection under the First Amendment to the United States Constitution. As a result of the case Think Secret was forced to close down its operation.

Apple and Adobe feud

War of words between CEOs as Adobe and Apple lock horns once more

Ever since Apple omitted Flash support from the iPhone, relations have been frosty between Apple and Adobe. Apple argues that Flash is unstable and power-hungry, and that Adobe hasn't been able to prove Flash wouldn't compromise its iPhone OS devices. Adobe retorts that without Flash, iPhone OS users are getting an incomplete web experience and also that Apple's exaggerating its anti-Flash claims.

Macworld last month reported that a change to the iPhone Developer Program License Agreement further escalated the conflict. It effectively forbids developers from using Adobe Flash Professional to compile iPhone projects.

Developer feedback has been split. Some support Apple's decision, arguing that Apple can't afford to rely on a third-party, and that cross-platform tools tend to aim for the lowest common denominator, ignoring the kind of platform-specific innovations Apple excels in. The Pro-Adobe camp, however, thinks Apple is being anti-competitive and restricting developers, favouring its 'closed' system over 'open' technologies like Flash.

War of the words

Apple CEO Steve Jobs dropped the first bomb with 'Thoughts on Flash' (www.apple.com/hotnews/thoughts-on-flash), a lengthy diatribe that clarified Apple's position. Along with noting the 'third-party layer' drawback of Flash, he argued Adobe's technology is proprietary, power-hungry and unstable, not designed with touchscreens in mind, and that sites with Flash-oriented content are transitioning to the open standards iPhone OS supports. He also said Adobe has continually pushed back the release date of Flash for smartphones, adding that "we're glad we didn't hold our breath".

Adobe CEO Shantanu Narayen then entered the fray. In an interview with *The Wall Street*



Journal, he said Adobe's goal has been to enable people to work with any operating system and claimed Apple makes things "cumbersome" for developers by "forcing" them to maintain multiple workflows. He dismissed Jobs's arguments, suggesting frequent Flash crashes on the Mac are the result of problems within Mac OS X itself.

Narayan also called Apple anti-competitive for locking out Flash and making apps exclusive to the iPhone, rather than cross-platform. This has led to rumours that the US Department of Justice and Federal Trade Commission (FTC) are to investigate Apple over antitrust charges. However, legal experts think such charges would be unlikely to stick because the government would have to prove Apple's conduct is adversely affecting competition for consumers due to the absence of choice, but the iPhone doesn't command an overwhelming share of the market, with Nokia and RIM taking first and second place.

Craig Grannell

Creative battle There is a war of words going on between Apple CEO Steve Jobs and Adobe CEO Shantanu Narayen

Apple updates

Digital Camera Raw Compatibility Update 3.2

This update extends Raw image format compatibility to Aperture 3 and iPhoto '09 for a number of cameras and also addresses Raw processing issues for specific Canon and Pentax models.



Mac Pro Audio Update 1.1

If you work with FireWire audio devices on a Mac Pro purchased after March 2009, this update "addresses an audio anomaly that some customers may hear coming from inside their Mac Pro computer when using FireWire audio devices". The update is targeted at early 2009 Mac Pros running Mac OS X 10.6.3.

Aperture 3.0.3

This update improves the overall stability of the Apple's photo-management program, including fixes for Faces, tracking with GPS in Places, duplicating Smart Albums, and applying adjustments such as Chromatic Aberration.



iTunes 9.1.1

This 102.1MB update offers various bug fixes and improvements, relating to VoiceOver stability, converting songs to 128kbps AAC while syncing, and managing Genius Mixes.



QuickTime Player 7.6.6

This update for Mac OS X 10.6.3 appears to be a fix for the QuickTime Player 7 application under Snow Leopard.



iPad WiFi problems

With some iPad users reporting weak signals, dropped connections and slow speeds, Apple has said it will issue a fix, noting that a "very small number of iPad users have experienced issues with WiFi connectivity." Apple said it would "address remaining WiFi connectivity issues with a future iPad software update". Some users were sceptical that a patch would solve their problems, and were unhappy about the lack of a timetable.

iPad 3G teardown reveals five antennas

No sooner had the iPad 3G gone on sale than iFixit tore one to bits to reveal its insides. Findings included five antennas (two for cell reception, two for WiFi/Bluetooth, and one for GPS).

Lala shutdown

Apple's closure of music streaming service, Lala, acquired in December, has fuelled rumours of a web-based iTunes, based on Lala's platform. Some speculate Apple will reveal a cloud-based iTunes.com at WWDC 2010.

Jobs to headline D: All Things Digital

Steve Jobs will be the opening speaker at the D: All Things Digital conference, which runs from 1-3 June in Los Angeles. Conference producer and host Kara Swisher says this year's conversation with Jobs could cover the iPad and Apple's relationship with Google and future innovations from the company.

iPad printing on the way

Steve Jobs continues to reply to emails from Apple fans.

According to MacRumors.com, an Apple customer asked why the iPad lacks printing facilities, and Jobs replied: "It will come". The iPad's inability to print is seen as a shortfall by some customers; implementation of printing would improve the device's relevance to business customers.

iPad accessories UK prices

Apple has revealed UK pricing for iPad accessories. The standard iPad Dock costs £25 and the iPad Keyboard Dock £55. The iPad Camera Connection Kit costs £25, as does the iPad Dock Connector

to VGA Adaptor and the Power Adaptor with six-foot cord. The iPad case will cost £30.

Google to take on iPad

Verizon claims that Google is working with it on a tablet computer that will compete with Apple's iPad. Details aren't yet known, but the tablet would presumably run Google's Android operating system (recently shown running on prototype tablet hardware) or Chrome OS.



Macworld News in brief

HP buys Palm

HP has acquired Palm for \$1.2 billion. Palm last year released WebOS, which runs on the Palm Pre and Palm Pixi smartphones; but amid tough competition from Apple and Google, Palm struggled in the market. The acquisition should provide a much-needed infusion of cash to maintain development of Palm's technologies, and provides HP with a system it could potentially use to create its own tablet device (enabling it, like Apple, to control both hardware and software).

Android sales up, Apple holds steady

In the ongoing battle for smartphone market share, market research firm NPD Group claims Android has risen to second place among smartphone operating systems. It accounts for 28 per cent, short of BlackBerry's 36 per cent, but ahead of Apple's 21 per cent, which has held steady. Analysts attribute the jump to aggressive Android pricing at the lower end of the market.

Facebook slammed

Facebook continues to be accused of privacy violations. Despite rapidly fixing a security breach that enabled users to snoop on friends' private chats, the company has allowed apps to be 'secretly' added to your profile if you visit certain sites. The Electronic Privacy Information Center has filed a 38-page complaint against Facebook with the Federal Trade Commission, demanding the removal of new features that compel users to share more information than before.

Netbook sales slump

Reacting to Morgan Stanley analyst Katy Huberty's claims that iPad sales had put a major dent in netbook growth, NPD Group analyst Stephen Baker said: "Certainly the growth rate is coming down, but that's logical. I'd say it's very difficult at this stage to attribute declining growth of netbooks to the iPad."

Apple keeps spending

Chip maker and iPhone app maker are added to Apple's shopping cart

Apple has used small chunks of its huge cash mountain to buy chip maker Intrinsity and iPhone app maker Siri. Intrinsity is widely believed to be responsible for the design of the engine behind the A4 CPU that powers the iPad (and that's rumoured to power the next iPhone revision). Intrinsity does not make microprocessors; instead, it specialises in designing and licensing high-performance chips for mobile applications. Its primary product is a set of design tools, called Fast14. These tools implement a number of sophisticated algorithms and techniques to improve the efficiency of CPUs based on a number of architectures, including the ARM family at the core of many of Apple's mobile devices.

Apple only recently confirmed the purchase, although in April many of Intrinsity's employees changed their online profiles on LinkedIn to reflect their new positions at the Cupertino giant.

Apple hasn't detailed what it paid for Intrinsity or how it plans to use the chip designer's technologies. Apple spokesperson Steve Dowling merely told the *New York Times*: "Apple buys smaller technology companies from time to time, and we do not comment on our purpose or plans." The newspaper, however, cites an industry expert who claims that the acquisition set Apple back \$121 million – small change for a company that ended its fiscal second quarter with \$41.7 billion in cash and investments on hand.

Mobile search

Another recent Apple acquisition was that of Siri, the company behind a free iPhone app that serves as a voice-driven personal assistant.



A4 on paper Apple has bought the company believed to be responsible for the design of the engine behind the A4 CPU that powers the iPad

Stock Summary

Adobe	▼ 0.98%
Apple	▲ 6.57%
Dell	▼ 1.78%
HP	▼ 9.41%
IBM	▲ 2.42%
Intel	▼ 0.49%
Microsoft	▼ 3.97%
Sony	▼ 13.85%

13 April – 13 May

"Apple buys smaller technology companies from time to time, and we do not comment on our purpose or plans."

Steve Dowling, Apple

According to reports, Apple paid around \$200 million for the company, in an attempt to get into mobile search. Siri's iPhone app (US-only) enables users to perform tasks, such as accessing movie showtimes, booking a cab, or reserving a table at a restaurant, via spoken instructions powered by Nuance's speech recognition engine.

The acquisition of Siri adds another weapon to Apple's arsenal in its rivalry with former ally Google. Siri's search features compete with several of Google's search-related services, such as its Google Mobile App, which also allows voice searches.

Aayush Arya, Marco Tabini

Nokia sues Apple – again

New lawsuit claims the iPad and iPhone infringe five Nokia patents

Nokia has expanded its legal attack against Apple to the iPad, alleging that Apple's tablet and iPhone violate five Nokia patents. The patents cover signal-to-noise modulation, geo-location and antenna technologies, and are different to the 17 patents Nokia claimed Apple infringed in two earlier federal lawsuits.

The filing is the latest in the legal hostilities between Nokia and Apple. In October 2009, Nokia claimed Apple infringed 10 of its patents related to wireless technologies used in the iPhone. Apple countersued in December, charging Nokia with violating 13 of its patents. In December, another Nokia lawsuit alleged Apple infringed seven additional patents.

Both companies have filed complaints with the US International Trade Commission (ITC), asking that their rival be barred from

importing infringing products. The ITC has approved both complaints, and will investigate.

Nokia isn't the only company claiming Apple has infringed its patents. HTC has also complained to the ITC and is asking for a US import ban of iPhones, iPads and iPods. HTC claims that Apple has infringed on five of its patents, though it doesn't mention which ones. HTC was not unprovoked – Apple fired the first volley back in March, when it sued HTC for infringing on 20 of its iPhone-related patents.

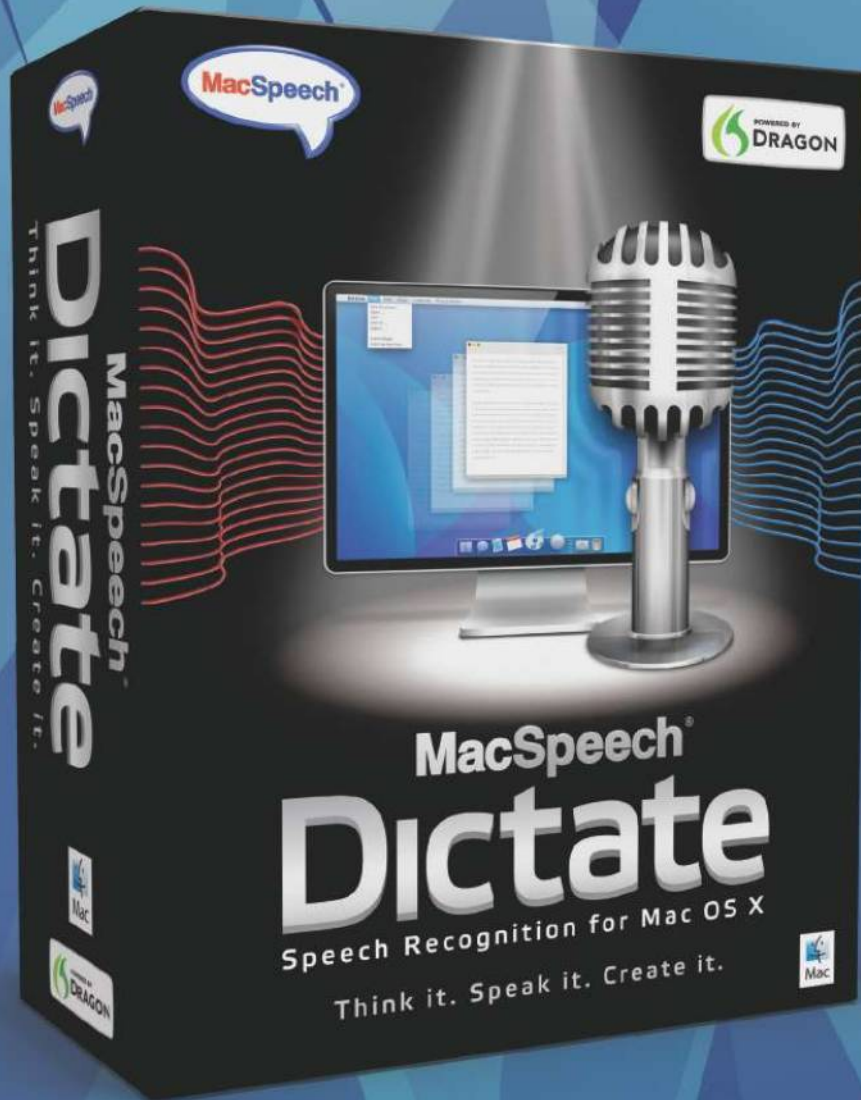
Gregg Keizer

Stop now HTC is trying to get the ITC to ban US import of the iPhone and iPad



You talk. It types.

MacSpeech Dictate
Premier speech recognition for the Mac.



www.macspeech.co.uk

Available from MacSpeech, Apple, and other fine Macintosh retailers.
Distributed in the United Kingdom by Softline - www.softlineuk.com

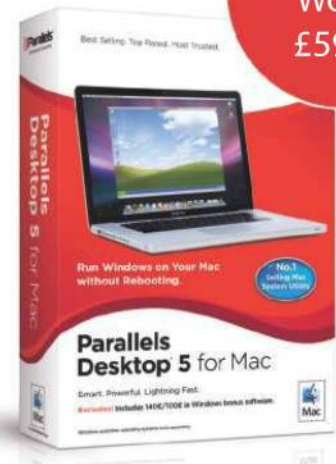


~~Type.~~ Talk!



Take Care

and start running Windows on your new Mac absolutely **FREE!***



FREE!
Worth
£59.99

Buy AppleCare with any iMac or MacBook Pro from selected dealers and receive Parallels Desktop 5 for Mac absolutely **FREE!**

Get the most from your Mac.

The AppleCare Protection Plan for Mac extends your coverage to up to three years of repair service and telephone technical support from your computer's purchase date.



See terms at www.apple.com/legal/applecare/appgeos.html

FREE! Parallels Desktop 5 for Mac worth £59.99



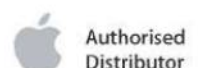
Choice is good. Not having to choose is even better.

Introducing the all-new Parallels Desktop 5 for Mac – the fastest, easiest way to seamlessly run Windows* on your Mac. Enjoy thousands of Windows programs – with rich graphics support on both Windows 7 and Snow Leopard – all without rebooting your Mac.

* Microsoft Windows OS required, sold separately.
** Whilst stocks last.



Visit www.unlimited.com/appleoffers to find your local participating dealer





Simon Jary
www.macworld.co.uk/blogs

"Free FreeHand expects the software to be completely unusable on pending operating systems sometime in the next five years, if not earlier. It believes that the open-source community could quickly make the program compatible with new hardware and operating systems"

The software graveyard

Could you live without your iLife applications (iPhoto, iMovie, iWeb, etc)? How about Apple's iTunes? Microsoft's Office apps: Word, Excel, PowerPoint, etc? Adobe InDesign? God forbid, Adobe Photoshop? These programs are our daily tools – more important, dare I say it, than the operating system we use them on.

There are ready and able alternatives for the majority of the above, and mostly we take the death of a favourite software program in our stride. I suspect we'd be pretty disoriented and grieve at the loss for a while, but some might get angry and want to get even with whoever it was who took away their primary tool and skill base.

One such group of disenfranchised software users is Free FreeHand (www.freefreehand.org). This group of over 5,000 pissed-off designers have banded together to try to protect the software they use for their livelihood from extinction due to, what they regard as, Adobe's cruel and monopolistic tactics.

You cannot take our FreeHand

FreeHand was once a fit and healthy rival to Adobe Illustrator. It has been owned by Adobe since 2005 and has not been updated since; it's still available to purchase, however. It was created by Altsys and licensed to Aldus. When Aldus merged with Adobe, FreeHand's future was at risk because of Adobe's rival vector program. Following intervention by the US Federal Trade Commission to prevent the purchase, Adobe was forced to return FreeHand to Altsys soon after the merger.

But FreeHand couldn't hide from Adobe for long. Altsys was bought by Macromedia, which released FreeHand versions 5 to 11/MX. In an ironic and possibly fatal twist Adobe acquired Macromedia in 2005, returning FreeHand to the home of arch-enemy Illustrator. FreeHand was in handcuffs.

FreeHand "basically hasn't been updated in eight years," complains the Free FreeHand group. "With Adobe's CS5 just released and millions of Illustrator users, why does Adobe suppress FreeHand? A niche user audience of an estimated 30,000 designers should not be of concern to a corporation like Adobe," says spokesperson Christine Stepherson.

"Letters and more than 1,000 postcards have fallen on deaf ears at Adobe. The request has been to make upgrades or release FreeHand to the open-source community. But after Adobe's 10-year strategy to shut down its main competition, many feel that the likelihood is slim," she sighs.

Stepherson thinks that Adobe's rumoured legal action against Apple's anti-Flash tactics is ironic given its slow smothering of Illustrator's main competitor: "Adobe has turned the mirror on its own practices," she says.

The group asks where Adobe's imprisonment of FreeHand sits in the company's new "Adobe ♥ Choice" advertising campaign, which declares that: "Innovation thrives when

people are free to choose the technologies that enable them to openly express themselves and access information where and when they want. Everyone loses when technological barriers impede the exchange of ideas. No company – no matter how big or how creative – should dictate what you can create or how you create it."

No choice

Certainly Adobe is not embracing its ♥ of choice when it comes to letting FreeHand continue to develop or even exist on new PCs or Macs. There's just one choice: Illustrator.

Free FreeHand has not ruled out legal action as a means of persuading Adobe of its commitment to this cause: "Corporations that buy and bury the products of others, just because they are unable to produce a better product, do harm to our society. Not only do they act unethically, they also obstruct progress – all in the name of corporate profits!" states the group on its website.

Free FreeHand expects the software to be completely unusable on pending operating systems sometime in the next five years, if not earlier. On its FreeHand product page Adobe states that: "Adobe has no plans to initiate development to add new features or to support Intel-based Macs and Windows Vista."

"While we recognize FreeHand has a loyal customer base, we encourage users to migrate to the new Adobe Illustrator CS5 software, which supports both PowerPC and Intel-based Macs and Microsoft Windows XP and Windows Vista."

To be fair, Adobe has over time enhanced Illustrator with some of FreeHand's layout/drawing features, and the CS5 version is a superb tool. But the accusation isn't that Illustrator isn't as good as FreeHand. The charge is that Adobe is creating a monopoly in the vector-editing market: "The overarching topic is that consumers no longer have a choice in the programs they wish to use to make a living," says Stepherson.

Free FreeHand believes that the open-source community could quickly make the program compatible with new hardware and operating systems.

"The lack of competition is also not good for users of Adobe Illustrator. The lack of innovation and total price control means Illustrator users are getting a lacklustre product with each upgrade and have nowhere else to turn if they are unhappy with the product," they warn.

I've searched for but can't find a Free PageMaker group, another old Aldus application that Adobe snuffed out on the altar of InDesign, but which still lives on in the company's coma ward. Mac FrameMaker users are another group possibly seeking their revenge on Adobe.

Programs have no right not to be superseded but should one company be allowed to keep a program in chains because it's a direct competitor? Does Adobe truly ♥ choice? FreeHand users are begging to differ. **MW**



13in MacBook Pro

New 13in MacBook Pro features longer battery life and new graphics

Laptop computer

13in: 2.4GHz Intel Core 2 Duo

Company: Apple, www.apple.com/uk

Pros: Impressive battery life; improved graphics; ability to output audio using MiniDisplay Port connection; new inertial scrolling; 4GB RAM standard

Cons: Modest performance gains over previous generation; only MacBook Pros still using Core 2 Duo processors

Price: £999

Star rating: ★★★★★

Laptop computer

13in: 2.66GHz Intel Core 2 Duo

Company: Apple, www.apple.com/uk

Pros: Impressive battery life; improved graphics; ability to output audio using MiniDisplay Port connection; new inertial scrolling; 4GB RAM standard

Cons: Modest performance gains over previous generation; only MacBook Pros still using Core 2 Duo processors; price difference for 2.66GHz model hard to justify

Price: £1,249

Star rating: ★★★★★

Glossy graphics The new 13in MacBook Pro is similar to the previous generation, but includes a new graphics card for a much better frame rate

The latest crop of MacBook Pro laptops from Apple boasts several new features, such as a new generation of Intel processors, improved dual graphics, and increased battery life. Most of the changes, however, are to be found in the 15in and 17in models. The 13in models remain the least expensive of the Pro line, but also the most similar to the previous generation.

What's changed?

Both new 13in MacBook Pro models include Nvidia's GeForce 320M integrated graphics, which share a minimum of 256MB of main memory. This replaces the GeForce 9400M integrated graphics in the previous generation (which shared the same amount and type of RAM). In our testing, the new 13in models achieved much better frame rates on our Call of Duty test. For example, at 38.9 frames per second, the new 2.4GHz MacBook Pro did 15.2 frames per second better than the higher-end, 2.53GHz 2009 model – an improvement of 64 per cent. They still lagged behind the new low-end 15in MacBook Pro, though, which garnered 68.4 frames per second thanks to its discrete graphics.

The new MacBook Pros have the same Multi-Touch glass trackpad as before, but the line-up adds a new trick. All the new MacBook Pros now have inertial scrolling. Just as on an iPhone, iPod touch, or iPad, if you swipe your

finger down to scroll through a long web page, for example, the momentum continues the scrolling until it gradually dies off. The feature seems right at home on the MacBook Pro and will be familiar to anyone who has used Apple's iPhone OS devices.

Another new feature, common to the entire MacBook Pro line, is the ability for the Mini DisplayPort connection to output multichannel audio in addition to the video signal it has always carried (the MacBook Pro supports mirroring or extending your desktop on an external display up to 2,560 x 1,600 pixels, but the adaptors needed are all optional accessories). To test it out, we purchased a Mini DisplayPort to HDMI Adapter. We connected the MacBook Pro to an HD TV using the HDMI cable and input that we usually use for the Blu-ray player. Although it worked for video (letting us play 720p video without problem) the audio didn't play through the TV, instead coming out of the MacBook Pro's built-in speakers. We asked Apple about it and the company recommends higher-quality cables such as the Griffin Video Display Converter (coming soon to the UK), saying that some lower-priced cables don't deliver audio.

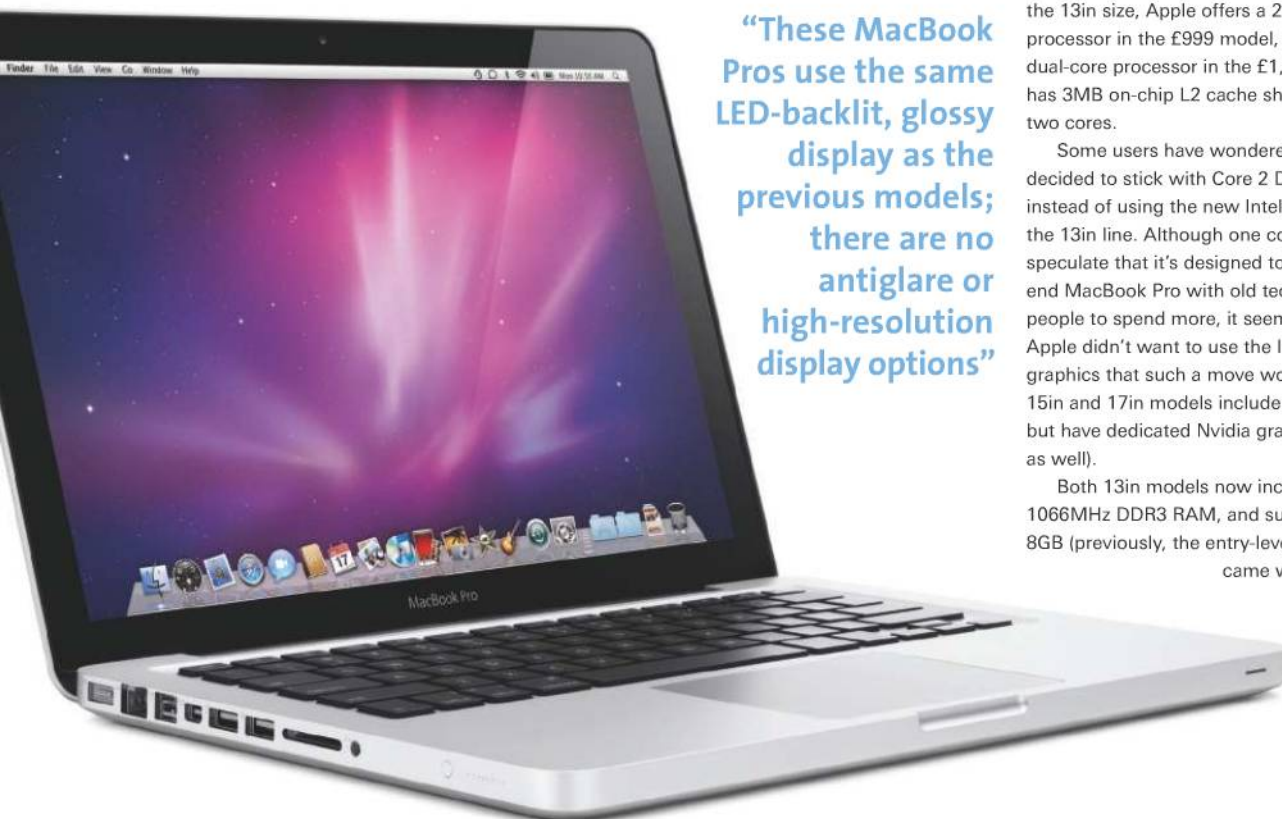
What's the same?

Although the 15in and 17in MacBook Pros include Intel's new Core i5 or Core i7 mobile processors, the 13in MacBook Pro continues to use the Core 2 Duo line of processors. In the 13in size, Apple offers a 2.4GHz dual-core processor in the £999 model, and a 2.66GHz dual-core processor in the £1,249 model. Each has 3MB on-chip L2 cache shared between the two cores.

Some users have wondered why Apple decided to stick with Core 2 Duo processors instead of using the new Intel Core i3 in the 13in line. Although one could cynically speculate that it's designed to 'cripple' the low-end MacBook Pro with old technology to force people to spend more, it seems more likely that Apple didn't want to use the Intel HD integrated graphics that such a move would require (the 15in and 17in models include Intel HD graphics, but have dedicated Nvidia graphics processors as well).

Both 13in models now include 4GB of 1066MHz DDR3 RAM, and support a max of 8GB (previously, the entry-level MacBook Pro came with 2GB). Just

"These MacBook Pros use the same LED-backlit, glossy display as the previous models; there are no antiglare or high-resolution display options"



New 13in MacBook Pros (April 2010)

Best results in red

	Speedmark 6 OVERALL SCORE	Photoshop CS4 SUITE	Cinebench R10 RENDER	Mathematica-Mark 7 SCORE	Compressor 3.0.4 MPEG ENCODE	Aperture 2.1.4 IMPORT	iMovie '09 IMPORT ARCHIVE	iMovie '09 EXPORT	iTunes '09 MP3 ENCODE	Call of Duty 4 FRAME RATE	Finder DUPLICATE 1GB FOLDER	Finder ZIP ARCHIVE	Finder UNZIP ARCHIVE	Parallels WORLDWIDE 6 MULTITASK TEST	Handbrake 0.9.3 RIP DVD CHAPTER	iPhoto '09 IMPORT	Pages '09 OPEN WORD DOCUMENT
13in MacBook Pro 2.4GHz Core 2 Duo	118	00:48	02:57	3.41	11:11	03:41	01:46	02:00	01:41	38.9	00:32	04:03	01:14	06:23	03:14	00:48	02:02
13in MacBook Pro 2.66GHz Core 2 Duo	126	00:48	02:40	3.6	10:41	03:28	01:47	01:59	01:32	39.1	00:37	03:44	01:11	05:55	03:05	00:38	02:11
15in MacBook Pro 2.4GHz Core i5	146	00:43	02:02	4.93	08:35	02:22	01:28	01:35	01:20	68.4	00:32	03:37	01:12	05:56	02:39	00:43	01:35
13in MacBook Pro 2.53GHz Core 2 Duo (mid 2009)	123	00:52	02:44	3.54	09:44	03:23	01:46	02:01	01:28	23.7	00:31	03:41	01:00	05:44	03:08	00:44	02:04
13in MacBook Pro 2.26GHz Core 2 Duo (mid 2009)	107	00:51	03:03	3.22	10:51	03:44	02:04	02:13	01:42	19.5	00:45	04:26	01:36	06:40	03:14	00:50	02:08
13in MacBook Pro 2.26GHz Core 2 Duo (late 2009)	112	00:53	03:05	3.21	10:39	03:58	01:50	02:09	01:38	21.7	00:34	04:06	01:18	06:23	03:09	00:49	02:07

as before, there are two USB 2.0 ports, one FireWire 800 port, a Mini DisplayPort graphics connection, a Gigabit Ethernet port, 802.11n and Bluetooth 2.1 + EDR wireless technology, an SD card slot, a full-sized backlit keyboard, an 8x slot-loading dual-layer DVD SuperDrive, built-in stereo speakers (which sound quite good), a single port for audio in and out (including support for digital output), and a built-in iSight camera. The new models include 250GB or 320GB 5400-rpm hard drive (up from 160GB or 250GB drive, respectively, at the same speeds).

These MacBook Pros use the same LED-backlit 1,280 x 800 pixel glossy display as the previous models (there are no antiglare or high-resolution display options, as there are on the 15in and 17in models). The displays are very bright, and the viewing angle is respectable in the horizontal direction, but not that great vertically – you really need to adjust the angle of the display to achieve optimum viewing.

Put to the test

The Macworld Lab performed its standard bevy of tests on these new models, and compared them to the previous generation of 13in MacBook Pro, the new 2.4GHz 15in MacBook Pro, and the 13in unibody MacBook.

In our Speedmark 6 suite, the new models scored 118 for the 2.4GHz model and 126 for the 2.66GHz model (compared with 107 and 123 for the previous generation, respectively, and 112 for the MacBook) – the difference is due, mostly, to the improved frame rate scores, thanks to the Nvidia 320M graphics.

Other tests showed rather negligible deltas, with the new models generally doing slightly better than their same-price counterparts from 2009. The one big anomaly was our Compressor test on the 2.4GHz 2010 13in MacBook Pro, which took longer to complete than even the

white MacBook. And in our folder duplication and Parallels WordBench 6 multi-task tests, the old higher-end 13in model beat even the new model with a faster processor by a little bit.

In some hands-on testing running Adobe Photoshop CS3 and CS4 and Aperture 3, we found even the 2.4GHz model to be adequate. And while running Windows XP in Parallels Desktop 4, encoding an HD MKV file for Apple TV using VideoMonkey, and playing a streaming TV show in Safari simultaneously (with the computer sitting flat on a desk), the back of the MacBook Pro got warm where the battery is, but not uncomfortably so. After running for about 15 minutes, the maximum external temperature (at the very back, near the serial number) was 107 degrees as measured by an infrared temperature device used to monitor HVAC systems in our office.

Macworld's buying advice

If you already have the previous 13in MacBook Pro, there's not a lot of reasons to upgrade unless you simply must have the newest version of everything. The changes to the 13in line-up are mostly about improved graphics and battery life – they aren't all that different from the year before – and it's hard to justify the £1,249 model based only on its larger hard drive and slightly faster processor, which didn't translate to much difference in our tests.

To get the most from the new generation of MacBook Pros, you'll need to step up to the larger sizes, which take advantage of the i5 and i7 processors and their own graphics improvements. Still, at 2.54kg and less than 24.9cm deep, the 13in MacBook Pro is the most portable Pro model available, and for many users the small weight and size make up for the somewhat limited (comparatively) performance.

Also the new models create a wider gap

between the 13in MacBook Pros and the similarly sized, £816 MacBook. Starting at £183 more than the MacBook, you get a faster processor, an aluminium enclosure, a FireWire port (of the 800 variety), twice the standard RAM, Nvidia GeForce 320M graphics, a built-in SD card reader, a backlit keyboard, a longer-lasting battery, and a trackpad that supports inertial scrolling.

Jonathan Seff

Battery life

In the area of battery life, Apple claims a 3 hour increase over the previous 13in MacBook Pros – the new models offer up to 10 hours of battery life, instead of 7 hours. Part of the longer life is due to a slightly higher capacity built-in battery – 63.5 watt hours versus 60 watt hours in the previous model. But Apple credits most of the improvement to the greater efficiency of the GeForce 320M graphics over the 9400M.

Our standard battery test, which plays a looped video in QuickTime until the battery dies, showed a life of 4 hours 19 minutes for the 2.4GHz model and 4 hours 33 minutes for the 2.66GHz model. Those compare favourably to the 2009 13in 2.26GHz (3 hours 30 minutes) and 2.53GHz (3 hours 38 minutes) models, as well as the current MacBook model (3 hours 45 minutes). In simple terms, the batteries do indeed last longer. (Apple uses a different methodology for battery testing, wirelessly browsing websites and editing text in a word processing document with display brightness set to 50 per cent.)

15in MacBook Pro

Macworld **Editors' Choice**

The Core i5 and i7 15in models add speed to a well-built laptop design

Laptop computer

15in: 2.4GHz Intel Core i5

Company: Apple, www.apple.com/uk

Pros: Dual graphics subsystem; improved graphics performance; seamless switching between graphics chips; significant performance boost; longer battery life; ability to output audio using MiniDisplay Port; new inertial scrolling

Cons: No standard res anti-glare screen option; no video adaptors or Apple Remote included; no ExpressCard slot

Price: £1,499

Star rating: ★★★★★

Laptop computer

15in: 2.53GHz Intel Core i5

Company: Apple, www.apple.com/uk

Pros: Improved graphics performance; seamless switching between graphics chips; significant performance boost; longer battery life; ability to output audio using MiniDisplay Port; new inertial scrolling

Cons: No standard res anti-glare screen option; no video adaptors or Apple Remote included; no ExpressCard slot

Price: £1,649

Star rating: ★★★★★

Laptop computer

15in 2.66GHz Intel Core i7

Company: Apple, www.apple.com/uk

Pros: Improved graphics performance; seamless switching between graphics chips; significant performance boost; longer battery life; ability to output audio using MiniDisplay Port; new inertial scrolling

Cons: No standard res anti-glare screen option; no video adaptors or Apple Remote included; no ExpressCard slot

Price: £1,799

Star rating: ★★★★★

Apple's new 15in MacBook Pro line-up may look identical to its predecessor (the mid-2009 models that brought the fixed battery and SD card slot to the line), but under the hood, changes to both the CPU and GPU combine to make an impressive leap in performance over the systems these replace.

The new 15in MacBook Pro comes in three standard configurations. All three models come standard with 4GB of DDR3 RAM, two graphics processors, and a glossy 15.4in LED-backlit screen.

The £1,499 entry-level system comes with a 2.4GHz Core i5 processor and a 320GB hard drive. The next step up the line is a £1,649 system with a 2.53GHz Core i5 processor and a 500GB hard drive. At the top of the line sits a £1,799 model with a 2.66GHz Core i7 processor and a 500GB drive.

What's new?

The new 15in MacBook Pro models drop the Intel Core 2 Duo processors (used in Apple's laptop line since late 2006) in favour of Intel's Core i5 and Core i7 mobile processors. The Core i5 and i7 processors have a few interesting performance features, including Hyper-Threading, which uses virtual cores to double the amount of processing cores presented to the operating system. The processors have dual cores, but OS X treats them as having four cores. Another i5/i7 technology, Turbo Boost, allows the processor to speed up for a short period of time when necessary, or shut down unused cores and give the resources to the cores in use. Turbo Boost can increase the clock speed of the 2.4GHz Core i5 processor up to 2.93GHz, for example.

The mobile versions of the Core i5 and i7 used in the MacBook Pro differ from the desktop version found in the 27in iMac, which has four physical processing cores. The desktop Core i5 does not support Hyper-Threading.

All 15in MacBook Pros now offer both integrated and discrete graphics – previously, the entry-level 15in MacBook Pro had only integrated graphics. The new models can use Intel HD integrated graphics (which shares 256MB of main memory with the CPU) for general-use applications. But for applications that require more horsepower, the system can use its discrete Nvidia GeForce GT330M graphics, with 256MB of dedicated graphics memory.

Not only are the graphics processors new to these systems, there's also a

Super fast The 15in MacBook Pro offers Intel Core i5 and i7 processors and Turbo Boost for the ultimate in speed

new automatic graphics switching technology developed by Apple that looks for frameworks used by individual apps at launch (such as OpenGL and Core Animation) to decide when to switch from its energy-sipping integrated graphics to the higher-powered GT330M graphics processor. Previously, a user had to decide which graphics to use and switching between them required logging out and back into OS X. One interesting note about the automatic switching: any application that uses the required frameworks can trigger a switch from integrated to discrete graphics.

Also new is support for inertial scrolling on the Multi-Touch glass trackpad. If you have an iPhone, iPod touch, or iPad, the scrolling works the same way: swipe your finger up or down to scroll through a document, and the momentum continues the scrolling until it slowly stops. An Apple representative said that this feature is unique to the new MacBook Pros and is not available through a software update on older Mac laptops.

The 15in MacBook Pro's Mini DisplayPort can now output multichannel audio as well as video. When using this port, make sure you are using a Mini DisplayPort to HDMI Adapter that supports the new MacBook Pro's audio and video signals.

Battery life

The MacBook Pro's built-in battery made its debut in the late 2009 models, extending the length of time you can use the laptop on a single charge. Now, lower power consumption by the graphics, and subtle battery changes help to increase battery life. In our movie playback tests, (a worse-case battery draining scenario that differs significantly from Apple's methodology of determining battery life), the three laptops lasted on average 4 hours 35 minutes, an improvement of between 10 and 25 per cent.

To see how these internal improvements affected performance, we enlisted the help of our overall system performance benchmark, Speedmark 6, and the results were impressive.

Speed boost

The new low-end 2.4GHz Core i5 was 23 per cent faster overall than the previous low-end model with its 2.53GHz Core 2 Duo. The biggest gain was in 3D game performance, where the new model's Nvidia GeForce GT330 graphics wiped the floor with the integrated Nvidia GeForce 9400 graphics in the previous low-end system.

The new entry-level MacBook Pro also proved to be faster than the previous 'better' and 'best' configurations in the 15in line-up, with 2.66GHz and 2.8GHz Core 2 Duo processors,



New 15in MacBook Pros (April 2010)

Best results in red

	Speedmark 6 OVERALL SCORE	Photoshop CS4 SUITE	Cinebench R10 RENDER	Mathematica-Mark 7 SCORE	Compressor 3.0.4 MPEG ENCODE	Aperture 2.1.4 IMPORT	iMovie '09 IMPORT ARCHIVE	iMovie '09 EXPORT	iTunes '09 MP3 ENCODE	Call of Duty 4 FRAME RATE	Finder DUPLICATE 1GB FOLDER	Finder ZIP ARCHIVE	Finder UNZIP ARCHIVE	Parallels WORLDBENCH 6 MULTITASK TEST	Handbrake 0.9.3 RIP DVD CHAPTER	iPhoto '09 IMPORT	Pages '09 OPEN WORD DOCUMENT
15in MacBook Pro 2.4GHz Core i5	146	00:43	02:02	4.93	08:35	02:22	01:28	01:35	01:20	68.4	00:32	03:37	01:12	05:56	02:39	00:43	01:35
15in MacBook Pro 2.53GHz Core i5	150	00:44	01:55	5.21	09:18	02:30	01:25	01:39	01:18	69.1	00:31	03:27	01:09	05:44	02:36	00:43	01:33
15in MacBook Pro 2.66GHz Core i7	161	00:42	01:43	5.71	07:43	02:07	01:27	01:34	01:11	69.8	00:31	03:11	01:05	05:08	02:35	00:42	01:25
13in MacBook Pro 2.66GHz Core 2 Duo	126	00:48	02:40	3.6	10:41	03:28	01:47	01:59	01:32	39.1	00:37	03:44	01:11	05:55	03:05	00:38	02:11
15in MacBook Pro 2.53GHz Core 2 Duo (mid 2009)	119	00:48	02:44	3.58	09:48	03:19	01:47	02:00	01:35	19.6	00:33	03:48	01:10	06:07	03:10	00:52	02:04
15in MacBook Pro 2.66GHz Core 2 Duo (mid 2009)	129	00:48	02:36	3.71	09:24	03:15	01:54	01:44	01:27	60.8	00:40	03:47	01:23	05:27	03:07	00:55	01:53
15in MacBook Pro 2.8GHz Core 2 Duo (mid 2009)	140	00:46	02:26	4.26	08:54	02:55	01:45	01:30	01:26	55.5	00:34	03:31	01:17	04:52	03:05	00:43	01:44
27in iMac 2.66GHz Core i5	211	00:39	01:12	9.33	05:39	01:48	01:25	00:57	01:07	87.2	00:21	03:03	00:44	04:09	01:22	00:25	01:24
27in iMac 2.8GHz Core i7	229	00:37	00:58	9.9	05:26	01:44	01:04	00:51	01:02	86.8	00:19	02:42	00:41	03:56	01:15	00:25	01:19

respectively. Comparing the new 2.4GHz Core i5 MacBook Pro with the previous top-of-the-line 2.8GHz Core 2 Duo MacBook Pro, the new entry-level 15in was 5 per cent faster in our Speedmark 6 testing, with 7 per cent faster scores in our Photoshop test, 17 per cent faster Cinebench CPU score, 16 per cent faster MathematicaMark 7 score, and 19 per cent faster Aperture score.

The £1,649 system, with a 2.53GHz Core i5, was only about 3 per cent faster than the low-end 2.4GHz Core i5 in our Speedmark 6 test suite. Some tests, like Cinebench and MathematicaMark 7 showed the benefit of the 2.53GHz's faster processing speed, but other tests, like Aperture and Compressor were actually faster on the 2.4GHz system.

The top-of-the-line 2.66GHz Core i7 model was 7 per cent faster than the middle model and 10 per cent faster than the new low-end laptop. Compared to the model it replaced, the 2.66GHz Core i7 MacBook Pro was 15 per cent faster than that previous 2.8GHz Core 2 Duo model.

In our graphics tests, we found that the MacBook Pro's new Nvidia GeForce GT330M graphics were able to display an average of about 19 per cent more frames per second (69.1) in our Call of Duty tests than the Nvidia GeForce GT 9600M graphics in the 2.66GHz and 2.8GHz 2009 Core 2 Duo MacBook Pros (58.2). We thought that bumping up the resolution from 1,024 x 768 (the resolution we use on all Mac systems as part of Speedmark

6) to the 15in MacBook Pro's native 1,440 x 900 resolution might show a bigger difference, but it stayed pretty much the same at 19.6 per cent faster on the new MacBook Pros.

Comparing the new MacBook Pros to the iMacs that already have Core i5 and i7 processors showed that there is still a performance price to pay for going portable over desktop. The results underscored the iMac's advantage of using the desktop Core i5 and i7 processors with four processing cores and a faster spinning 7,200rpm 1TB hard drive. (The 2.66GHz iMac uses the desktop version of the Core i5 that has doesn't support for Hyper-Threading. The 2.8GHz version uses the desktop version of the Core i7 with Hyper-Threading. The MacBook Pros use the mobile version of the Core i5 and i7 with two cores and Hyper-threading on both.)

We found the high-end 2.66GHz Core i7 MacBook Pro to be 24 per cent slower overall than the 2.66GHz Core i5 27in iMac and 32 per cent slower than the 2.8GHz Core i7 27in iMac.

Macworld's buying advice

The new 15in MacBook Pros leave little to complain about, offering better application performance, better battery life and very similar pricing. The extra £170 for the new low-end system seems like good value when you consider the addition of discrete graphics, larger capacity hard drive and new 2.4GHz Core i5 processor.

James Galbraith

No change

The solid aluminium unibody enclosure remains the same, and the display is the same glossy 15.4in widescreen LCD with LED backlight and 1,440 x 900-pixel resolution as found in the last generation. Looking at the new model side by side with one of last year's, there is no difference in viewing angle or colour performance. If you're sensitive to the mirror-like reflection of the standard glossy screen, an anti-glare, high-resolution (1,680 x 1,050) option is available for an extra £120 – a standard resolution, anti-glare screen isn't offered. You can also opt for a glossy high-resolution display for an additional £80. (There are no anti-glare screen options available with the 13in MacBook Pro models).

The case design is unchanged, and there's still a backlit keyboard, Multi-Touch trackpad, and an 8x DVD-burning SuperDrive. The ports located on the left-hand side of the MacBook Pro's case remain identical to the last generation: two USB 2.0 ports, one Gigabit Ethernet, one FireWire 800, one SD card slot, MagSafe power port, and audio line in and line out ports supporting optical digital and analogue signals. Also on the left-hand side is a battery life indicator button with seven light status gauge.

Gum Plus[™]

Browse more, play more, talk more!

Made for
iPod iPhone



Xtand[™]
Stands above the rest.



Xtand Go[™]
The seat for your device on the go.



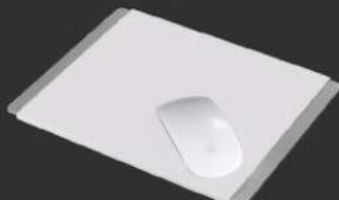
Xtand Pro[™]
Two heights • One sight



Mtable[™]
Ideal for your workstyle...



Lounge[™]
Style matters...



Alupad[™]
Designed exclusively for Mac users.

A tools[®] design from Denmark

With more than 200 awards and distinctions Tools Design rank amongst Denmark's most awarded designers. The design philosophy is to put "something extra" into the products.



Cooling bar[™]
Type in style...



Check for availability at:

ANDRIKA

TESCO

hmv

Dixons

John Lewis

www.just-mobile.com

©2010 by Just Mobile Ltd. All rights reserved. Just Mobile and other Just Mobile marks are owned by Just Mobile Ltd. and may be registered. All other trademarks are the property of their respective owners. Pictures of Apple products are for illustration purposes only.

www.WorldMags.net & www.aDowns.net

Macworld Editors' Choice

New design tools allow you to create better layouts faster

DTP software

Company: Adobe, www.adobe.com/uk

Pros: Great set of new tools to make layouts faster and easier; more flexible captions and crossheads; Photoshop-style Layers panel; support for multiple page sizes

Cons: Still no quick 'RGB image' fix function; online collaboration tools will be fee-based after a year

Min specs: Multicore Intel processor; Mac OS X 10.5.7;

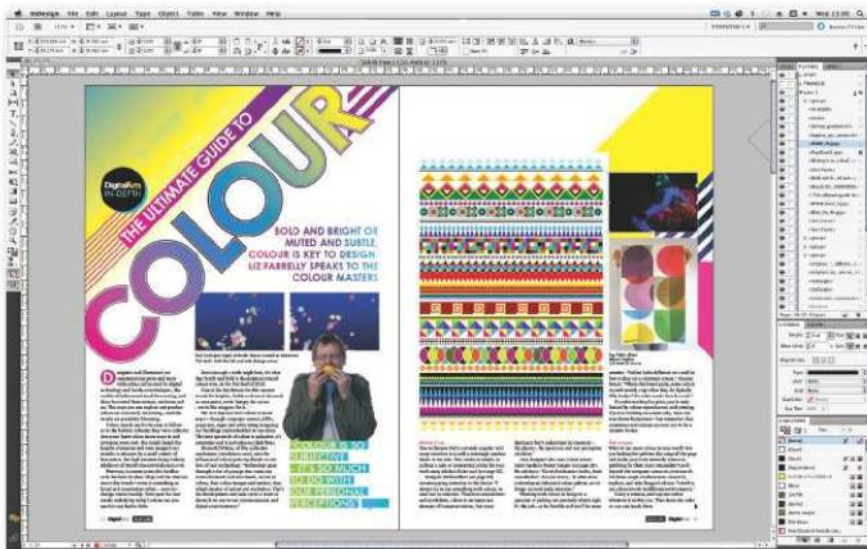
1GB RAM: 2.6GB available hard-disk space

Price: £699.12, upgrade from £186.82

Star rating: ★★★★★

With InDesign CS4, Adobe tried to turn graphic designers into all-singing, all-dancing creators of interactive projects – turning print layouts into blinged-out fully animated Flash websites. Most designers ignored this, enjoying the few new layout tools like Smart Guides and Live Preflight and complaining that there's no way to automatically convert RGB images to CMYK before output.

With the CS5 version – as with much of the new Creative Suite 5 – there's a refocus on creativity and efficiency. There's still no quick 'RGB image' fix, but there are quite a lot of new creative tools that will appeal as much to print-only designers to those looking at wider media.



Layer control The new Layers panel is straight from Photoshop. It will divide opinion as it takes some getting used to, but if you structure your elements well it makes complex layouts much easier.

Grab and go

It's the simplest tools that make the most difference to the way you work day-to-day. To make working with images faster, Adobe has introduced the Content Grabber, which makes the Direct Selection tool almost redundant. Using the Selection tool, run the mouse over an image and a semi-transparent doughnut appears in its centre. Grab this and you can drag the image around inside its frame. Click on it, and brown image borders appear for you to scale or rotate. It's a great little time-saver; we only wish we could use the Content Grabber to scale (using modifier keys as with the Gap tool).

Equally nifty are the Gap tool and a quick way of creating frames grids. The former allows you to select the gap between frames and move it, with the frames being automatically resized to fit. Holding **⌘-Ctrl** and dragging will adjust the size of the gap. Holding **Shift** and dragging will affect only the boxes directly next to the cursor. Holding **Option** and dragging will move all items around the gap. It can get confused by complex layouts, but most of the time it works perfectly.

To create grids of frames for text and/or images in InDesign, drag out a box and tap the arrow keys to add rows or columns. It's an inspired little addition.

Less appealing are Live Corner Effects (see left), though only because you know that they're going to be overused just like Live Effects in CS4 were. Creating rounded corners used to be fiddly, but with grabbable handles you can more easily chart the right path to stylish, not cheesy.

With a wide set of applications in CS5, it's no surprise that Adobe has indulged in a little theft from other tools when looking at what it could add to InDesign's toolset. Illustrator

“The Content Grabber makes the Direct Selection tool almost redundant”

CS5 added support for multiple artboard sizes in a single project, and InDesign CS5 does the same for documents. If you're building different sized pieces from the same elements – say, a brochure, flyer, sticker and event banner – this is a great way to keep everything together.

From Photoshop, Adobe has purloined the Layers panel. No longer something you only look at late in a project when you can't click through the frame you want, now this panel has everything on your page stacked. If you want to put elements together, you just group them and move them together. It's change that comes with a learning curve to modify your workflow, but it makes sense in the end.

For text, there are a few notable additions. You can set paragraphs to span columns – great for subheadings – you can track text changes, and create captions dynamically.

Adobe hasn't completely ignored InDesign's interactive toolset, and it's been tidied up immensely. But InDesign is still the wrong application for interactive design.

InDesign comes bundled with a subscription to the CS Review, which allows clients to post comments on your layouts. It's a nice idea, but after a year you'll have to pay up again.

Macworld's buying advice

By concentrating on new design tools rather than whizz-bang interactive features, Adobe has made InDesign CS5 a must-have upgrade. We look forward to the RGB image fix in CS6.

Neil Bennett

Corner effects

[illegible][illegible]

Rounded corners can add a bit of interest to any layout, as long as you don't overdo them. Creating them in InDesign CS5 is a lot easier, and you have much more control. Clicking on the yellow box on a frame makes the corners 'live', so you can pull them to create curves. This will normally affect all corners, but hold down Shift to affect just one.

Illustrator CS5

Macworld **Editors' Choice**

Creative innovations and enhanced workflow breathe new life into vector graphics

Drawing software

Company: Adobe, www.adobe.com/uk

Pros: Perspective drawing; Bristle Brush; Shape Builder; stroke enhancements; multiple artboards; integration with Flash platform; Drawing mode enhancements; crisp graphics for web

Cons: Intel Mac only; fairly expensive as standalone application

Min specs: Intel processor; Mac OS X 10.5.7; 1GB of RAM; 2GB available hard disk space

Price: £606.30, upgrade £186.82

Star rating: ★★★★★

Illustrator CS5 brings a new dimension to vector graphics – literally, as it now offers grids and tools that allow you to draw shapes and scenes in accurate 1-, 2-, and 3-point linear perspectives (offering scenes with one, two and three vanishing points respectively).

The heart of this is the new Perspective Grid tool that supports drawing directly on planes of true perspective. Grids can be applied and adjusted simply by dragging grid handles. Objects can be moved, scaled, duplicated, and transformed dynamically in perspective. An onscreen widget indicates the active plane and allows you to easily move and duplicate objects from one plane to another. The Perspective Object control bar offers an Edit Text button for changing perspective type, and an isolation mode so you don't disturb anything else. The concept and the grid setup may seem complex, but working in these extra dimensions is very straightforward and delivers powerful results.

Artboards

The multiple artboards feature has been much improved, now supporting up to 100 artboards of varying sizes in one document. New panel controls and keyboard shortcuts allow you to add, delete, and duplicate artboards and convert page layouts into artboards via a contextual menu.

The Rearrange artboards dialog sets artboards on a regular grid with layout and spacing of your choice, while productivity is further served by the ability to place one or many objects in the same location simultaneously across all your artboards. This works well if you need to distribute a logo or piece of text across all the media you're working on, or rebrand multiple project media at once.

Furthermore, Illustrator CS5 now allows the export of individual artboards as separate AI files. It can also automatically rotate artboards to the correct orientation for printing to a chosen media.



Brush strokes Bristle Brush offers control over size, length, thickness, and stiffness plus brush shape and bristle density; the paint opacity setting uses transparency variations to simulate lifelike blending

Quick on the draw

The Drawing enhancements don't end there. For example, the new Draw Inside mode automatically creates a mask from selected objects, so you can place a photo within live editable text with no need to create a clipping mask first. You can then update or edit the text without disturbing the image inside. Meanwhile, the Draw Behind mode enables creation of new artwork underneath any selected object, exactly where you want in the stacking order.

The new Bristle Brush brush tip options allow customisation of tip shape, bristle density and paint opacity, plus natural-looking paint strokes and blending in a traditional manner. The Bristle Brush works particularly well in conjunction with the Draw Inside mode to allow you to paint as loosely as you wish inside the masked shape. The effects can be sensational, with very little effort other than defining the original element to be masked. You can also brush along text shapes to create scrubby or soft-edged type that retains the scalability of vector graphic strokes.

The shape of things to come

On the subject of strokes, CS5 offers five significant updates. You can finely control dashes and arrowheads, as well as how brushes stretch along a path; improvements in corner handling mean that stroke shapes behave predictably in tight angles or around sharp points. The Width tool can be used to draw strokes with variable widths that you can adjust at any point. You can add width-control points wherever you want them, and moving them around to create an infinite variety of shapes. Custom width profiles can be saved and reapplied to any stroke.

Productivity boosts also go to the Shape Builder tool. It lets you merge objects merely by click-dragging over a group, while holding down

“You can place a photo within live editable text with no need to create a clipping mask first”

Option subtracts areas in the same fashion. The Shape Builder includes interactive colour selection for quickly filling closed or partially closed areas of artwork, automatic gap detection, and the option to fill new shapes automatically.

Adobe has firmly set Illustrator within the web workflow, sharing symbols more faithfully with Flash Professional and offering round-trip design and editing with CS5's new Flash Catalyst. Nine-slice scaling is a useful web-focused feature. It enables symbols and other elements to be resized while maintaining proportions in areas that need it most, such as the corners of boxes and text.

To create precise, clean artwork you can use the Align To Pixel Grid feature, which ensures that objects are automatically nudged to the closest pixel edge when you create them or apply transformations. Clean text for bitmap images intended for the web and mobile devices is likewise more achievable, now that four anti-aliasing options – Sharp, Crisp, Strong, and Smooth are included in the Character Panel.

Macworld's buying advice

This is the most creative version of Illustrator yet. The artistic potential of game-changers like true perspective design, the Shape Builder and the Bristle Brush are matched by the productivity gains provided by enhancements to drawing modes, stroke handling and artboards. Designers of any stripe will find something to like here.

Michael Burns

SCOSCHE
the necessary accessory



sync up...



flipSYNC

Keychain charge & sync cables

Never forget your cable again.

Ultra compact design fits on your key ring.

USB 2.0 for fastest data transfer possible



MICRO & MINI USB 2.0 CHARGE & SYNC CABLE



USB 2.0 CHARGE & SYNC CABLE for iPod & iPhone



Made for
 iPod iPhone



©2010 Scosche Industries, Inc. iPod and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. "Made for iPod" and "Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

SCOSCHE
www.scosche.com 800.363.4490



Photoshop CS5

Macworld **Editors' Choice**

Adobe takes image editing to new heights of artistic expression

Image-editing software

Company: Adobe, www.adobe.com/uk

Pros: Faster 64-bit support; selection enhancements; content-aware fill; lens correction; Merge to HDR Pro; Mixer Brush; Puppet Warp; Repoussé and 3D improvements

Cons: Power hungry in places; optimised for high-end systems; Camera Raw plug-in in shipped version still requires an update; 3D offered in Extended version only

Min specs: Multicore Intel processor; Mac OS X 10.5.7; 1GB of RAM; 2GB available hard disk space; OpenGL graphics card; 256MB of VRAM; some GPU-accelerated features require graphics support for Shader Model 3.0 and OpenGL 2.0

Price: £643.90; upgrade £186.82

Star rating: ★★★★★

Now offering 64-bit support, Photoshop CS5 is noticeably faster than previous versions, but the new processor-intensive tools need this speed bump. Content Aware Fill is one of the wow features, able to fill a selection with synthesised content based on the surrounding area. Working on an image of a house, we could not only instantly remove the front door, but the Fill tool also added a new bush from the surrounding garden. Such power is a boon for general productivity and will no doubt be welcomed by estate agents and historical photo-revisionists.

Selection has gained new enhancement controls, activated when you click the Refine Edges button in the toolbar after using any of the selection tools on your image. A separate



Improved selection Smart Radius in the Refine Edge dialog automatically matches the subject's changing edge characteristics; the extra view modes assist you in previewing the quality of the selection

dialog allows fine-tuning using the Edge Detection controls, including a Smart Radius tool to 'intuitively' adapt the selection area to the image edges. The process still requires a fairly accurate selection in the first place, so this is a complement, not a replacement, to tools like Quick Selection. The task of isolating some elements involves a bit of trial and error, so the presence of another brush to restore the original edges is a welcome addition. The Adjust Edges section offers smooth, feather and contrast controls, as well as the ability to contract or expand the selection edge. You can then remove any colour fringing with the Decontaminate Colors checkbox and slider before having a choice of output – as a layer, layer mask, or new document options.

Creative mix

Another big ticket feature is the Mixer Brush, which lets you mix and blend multiple colours with underlying hues on the canvas, offering naturalistic brush strokes and a feeling of painting with natural media. Settings provide extensive control over the wetness of the canvas and how much paint to add to the brush, the mixing rate between brush and canvas colours, and whether the brush is refilled, cleaned, or both, after each paint stroke. You aren't restricted to working on a photo, either; you can start with a blank canvas and build up a picture in a traditional layered fashion.

Still on the creative side, Photoshop takes a leaf out of the After Effects book with the Puppet Warp tool. Here you place 'pins' on various parts of an element in a scene – it can be an isolated selection or a layer – then move the pinned parts of the element to recompose an image. Simple and effective, this will benefit advertising photography and other projects

"Content Aware Fill is one of the wow features, able to fill a selection with synthesised content based on the surrounding area"

where the images shot just need a minor tweak or two to fit a composition.

These are just a few of the new features on offer. Others include Lens Correction and the new Camera Raw, both of which will make short work of photographic problems. Interface enhancements include custom-configured, task-specific workspaces and Mini Bridge, a cut-down version of Bridge.

First among several key 3D enhancements in Photoshop CS5 Extended is a facility named Repoussé. This can convert 2D artwork into 3D objects and then create depth by altering the many extrusion properties of the 3D model. There are a number of lighting and rendering choices, and if the result is not to your liking, you can open the model in the Repoussé dialog to edit it again. The most common use for Repoussé will be to extrude text to create logos and 3D artwork, rather than switch to an external 3D graphics program for this common task, so productivity as well as creativity gains here.

Macworld's buying advice

Photoshop CS5 offers several productivity gains, including Repoussé and selection enhancements, HDR Pro and Content Aware Fill. Whether artistic tools like Mixer Brush and Puppet Warp will be worth the price depends on the type of work you do. And you'll need a powerful system to really benefit from the 3D features.

Michael Burns

Merge to HDR Pro

The new Merge to HDR Pro utility significantly enhances the ability to combine multiple exposures of a scene into a single high dynamic range (HDR) photo for maximum tonal range. A dialog offers a number of default processing styles and saved custom settings, plus a new 'deghosting' system. As well as providing more accurate alignment, this can reduce the blurred elements that commonly occur when merging several images; it automatically gives priority to the content of one source image over the others in problem areas.

Other settings include controls for the strength and radius of the edge-glow effect, the ability to alter the hues of the final image with the Vibrance and Saturation sliders in the Color tab, and fine-tune the tones with the Curve control. There's also a way to 'fake' the effect of the processing styles on a single image, via the HDR Toner feature. This is a very creative tool, but it's a heavy user of processing power.

Snap on cover TREXTA®

World Cup Edition



Genuine leather iPhone Cases



ADL
AMERICAN DATA LINE

&

ICEBERG
technology

Authorized distributors

Phone: +44 (0)20 8123.5210 - Email: sales@icebergtechnology.co.uk

www.WorldMags.net & www.aDowns.net

AccountEdge 2010

Accounting program adds tools to help you better understand your business

Small business accounting software

Company: Mamut/Activity, www.mamut.com

Pros: Improved form creation tools; Business Insights gives a graphical view of your business' health; Profit Analysis lets you see how much you're making on each sale

Cons: Form tools still not as easy to use as they should be; small improvements may not justify the upgrade price

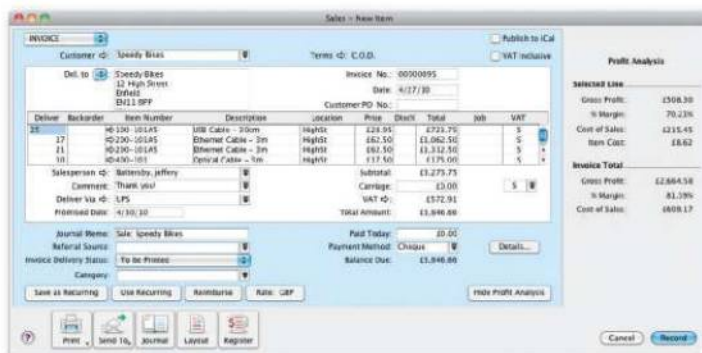
Price: £301.98 AccountEdge; £562 AccountEdge Plus; £795.48 Account Edge Network Edition. All prices include a mandatory service agreement

Star rating: ★★★★★☆

AccountEdge 2010 offers several small but useful new features, building on the foundation of what is already an excellent small business accounting application.

While AccountEdge retains the easy-to-use flowchart interface it's had for years, that interface has been spruced up with crisper text, improved button icons, and a Command Centre window that can now be properly resized while buttons and text move and resize with it. A clever new feature is found in the New Sale window; click the Profit Analysis button and you get an instant look at how much money you'll make on each sale or any single item you're selling.

AccountEdge 2010 offers significantly improved form-editing tools, making it easier to



Proffered profit
AccountEdge's new Profit Analysis button helps you see how much every sale adds to your bottom line

create and customise forms and reports. Form creation still isn't as easy to use as basic page-layout programs such as Apple's Pages, but it's a huge improvement on earlier versions.

One final major improvement is Business Insights, a tool that provides a graphical view of your company's operating and gross profit margins, helping to give you a deeper understanding of how your business is faring.

Depending on your needs, AccountEdge is available in three separate versions: AccountEdge, AccountEdge Plus, and AccountEdge Plus Network Edition. The only difference between the two latter versions is that the network addition can be used over a network with multiple users making use of

AccountEdge simultaneously. The basic version is limited in that it's incapable of handling multiple currencies for sales, purchases and banking transactions, doesn't have as many options for tracking and differentiating between inventory items, has limited payroll options, and offers no tools for tracking and billing for time.

Macworld's buying advice

AccountEdge remains the premier small business accounting program for the Mac. While there are no major improvements to the application, the new reporting features and better form-creation tools offer additional resources in what is already an excellent program.

Jeffery Battersby

LogMeIn Pro 2

Gain online control of your Mac from any web browser – even if it's on a PC

Remote access

Company: LogMeIn, www.logmein.com

Pros: Easy remote access to your computers online; desktop sharing across platforms

Cons: File sharing features are built in to Mac OS and Windows already

Min specs: Mac OS X 10.4.6

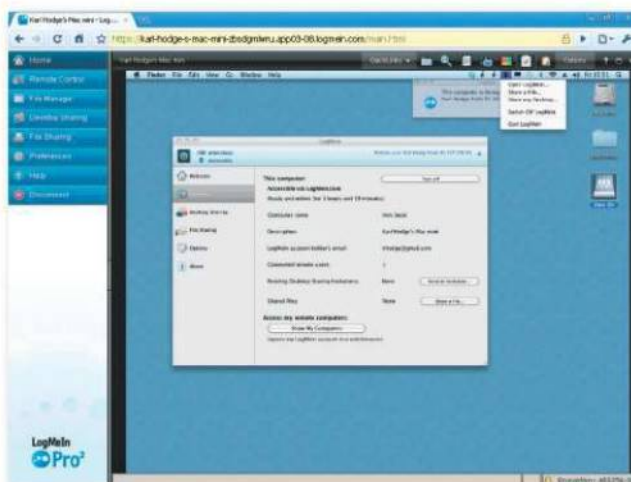
Price: £41.20 per year – one host computer

Star rating: ★★★★★☆

LogMeIn is a remote access tool that works cross-platform, between Windows and Mac. Its main competition, TeamViewer, is pricey in comparison for business users, but does the lower price for LogMeIn Pro 2 mean a reduced feature set?

Overall, no. With LogMeIn, you set up one account, install the software on your machine and then access the remote computer by connecting to LogMeIn through a browser. And there's no exchanging of passwords required between machines. It's so easy to use.

What does it do? Pretty much anything you can do while sitting at your computer – but remotely. If your remote machine is password protected, you'll need to log into it using your standard Mac user name and password. You



Internet connect LogMeIn Pro 2 lets you remotely access a Mac running the software from any web browser – whether you're on a PC or a Mac

can then open programs, read files, create documents... You might struggle if you want to do some video or image editing, but it can handle launching your music player. LogMeIn also has some handy sharing and file-handling features that are easy to launch and use.

You can invite others to share your desktop by email, for example. They get a secure link

that connects to your computer – issuing you with an alert when they accept. You control how much access they have and can also enable whiteboard capability, for onscreen collaboration.

File sharing enables you to create secure links to files on your local machine. When the invited user clicks that link, they're able to transfer it direct to their own machine – there's no need to upload the file to a sharing service like Dropbox.

Macworld's buying advice

LogMeIn will appeal to anyone offering support or needing to access files across a multi-platform network. We even used it to demo PC software to folks running Macs. Worth the subscription for corporate users.

Karl Hodge



The NEW Ignition

NE TOUCH

to all your information



Instantly access your desktop, all your applications and every file on your computer wherever you are, as if you were sitting in your office. With LogMeIn Ignition, you're only one click away from your desktop and data.

LogMeIn Ignition is a single application that's optimized for both the iPhone and iPad, which means your life just got a whole lot easier.

To find out more or to buy, visit
www.LogMeIn.com/iPhone

If it's on your computer, it's just a touch away. *

*LogMeIn Ignition is compatible with iPhone, iPad and iPod touch.

LogMeIn®

LogMeIn® and LogMeIn Ignition™ are the trademarks and service marks of LogMeIn, Inc., and may be registered in the U.S. Patent and Trademark Office and in other countries. This advertisement also contains the trademarks and service marks of third parties and such trademarks and service marks are the property of their respective owners. These marks may be registered and/or used in the U.S. and other countries around the world.

www.WorldMags.net & www.aDowns.net

Yeti

Versatile, heavy-duty USB-powered desktop mic for general-purpose recording

USB microphone

Company: Blue Microphones, www.blumic.com

Pros: Excellent audio quality; versatile recording settings; looks good; satisfyingly solid; built-in headphone monitoring

Cons: Too bulky and heavy for roving reporting; controls sited inconveniently

Price: £129

Star rating: ★★★★★☆

The Yeti certainly looks the part, thanks to its studio-style capacitor mic design and sturdy, heavy base. It rotates easily around a central pivot, which allows for a wide range of mic placements, making it suitable for many different kinds of recording.

The Yeti's strength is that it incorporates four distinct settings – stereo, cardioid, omnidirectional and bi-directional. Stereo captures a realistic stereo image and works well for recording conversations, vocals and acoustic instruments; cardioid focuses on what's right in front of the mic and cuts out everything else, making it good for podcasts; omni picks up everything equally and is good for recording outdoors, discussions or conference calls; bi-directional records front and rear, so it's good for interviews where you might normally try to

get by with a stereo mic – or take along a pair.

Results are uniformly excellent. This is a professional-level mic and we produced great recordings of conversations, interviews, podcasts and intimate acoustic performances using a variety of programs like GarageBand and Audacity. There's a headphone socket for easy, latency-free monitoring and simple volume and mute controls on one side; though the volume and recording settings are inconveniently sited on the other side, where you can't see them.

Of course, you can do all this with a conventional mic and audio interface, but if you don't normally record electric instruments and keyboards, this'll save money and you'll have less to cart around – though because it's quite heavy you won't want to use it too often for in-the-field recording. It costs a hefty £129, but we've seen it for £99 including delivery, at which point it becomes an attractive proposition for anyone who's serious about their audio recordings.

Macworld's buying advice

We loved the Yeti's versatility and the way it made vocals sound rich and radio-friendly. It has enough tonal nuances to make recording vocals and guitar straight into GarageBand satisfying and is easily good enough for recording small



Big audio The Yeti USB-powered microphone is a versatile studio tool for podcasting and general-purpose recording

live events with multiple acoustic instruments. the bi-directional mode is great for interviews. It's quite big and heavy, though.

Rob Beattie

Streamtime 10

Business-management software for creative businesses of all sizes

Business software

Company: Particle Systems, www.previewstreamtime.com

Pros: Handles multiple currencies; visual task scheduler; includes free iPhone app

Cons: Some tabs can be very cluttered

Price: £26 a month, first 12 months in advance

Star rating: ★★★★★☆

Creative businesses sometimes struggle with the mundane tasks of running a company. There are numerous packages around to help manage a business, but Streamtime's great strength is that it specifically targets those companies working in the creative industries, from graphic designers to architects.

Streamtime 10, which is based on the FileMaker 10 database, is an extremely effective CRM tool, letting users keep track of clients – with reminders to follow up on leads – and a record of all correspondence. It can generate quotes for a whole job or as a part of a larger job; those quotes can be emailed from within Streamtime and used to set up an invoice.

Quotes can be converted into jobs, which can be further split up into tasks for different people. Users can see a list of the tasks assigned to them and view a chart that shows jobs for all the people in a team, or a Gantt chart



Task master Streamtime has quite a visual feel to it, with features such as this task scheduler showing each job at a glance

showing all the jobs in hand and the time set aside for them. There's also a calendar that can be synced with iCal and record time sheets that can be used for billing clients.

Streamtime can generate reports on various items, from correspondence entered into with a particular client through to the profit on a job, and detail differences between a quote and an actual invoice. It can be integrated with some account programs, including MYOB, Quickbooks, Moneyworks and Sage.

There's also a free iPhone app that shows the contacts database complete with all correspondence for each client, as well as the quotes and task scheduler.

Better yet, the pricing structure has been overhauled so that instead of a one-off cost there's a monthly charge of £26. This includes the program itself,

plus technical support and upgrades.

Macworld's buying advice

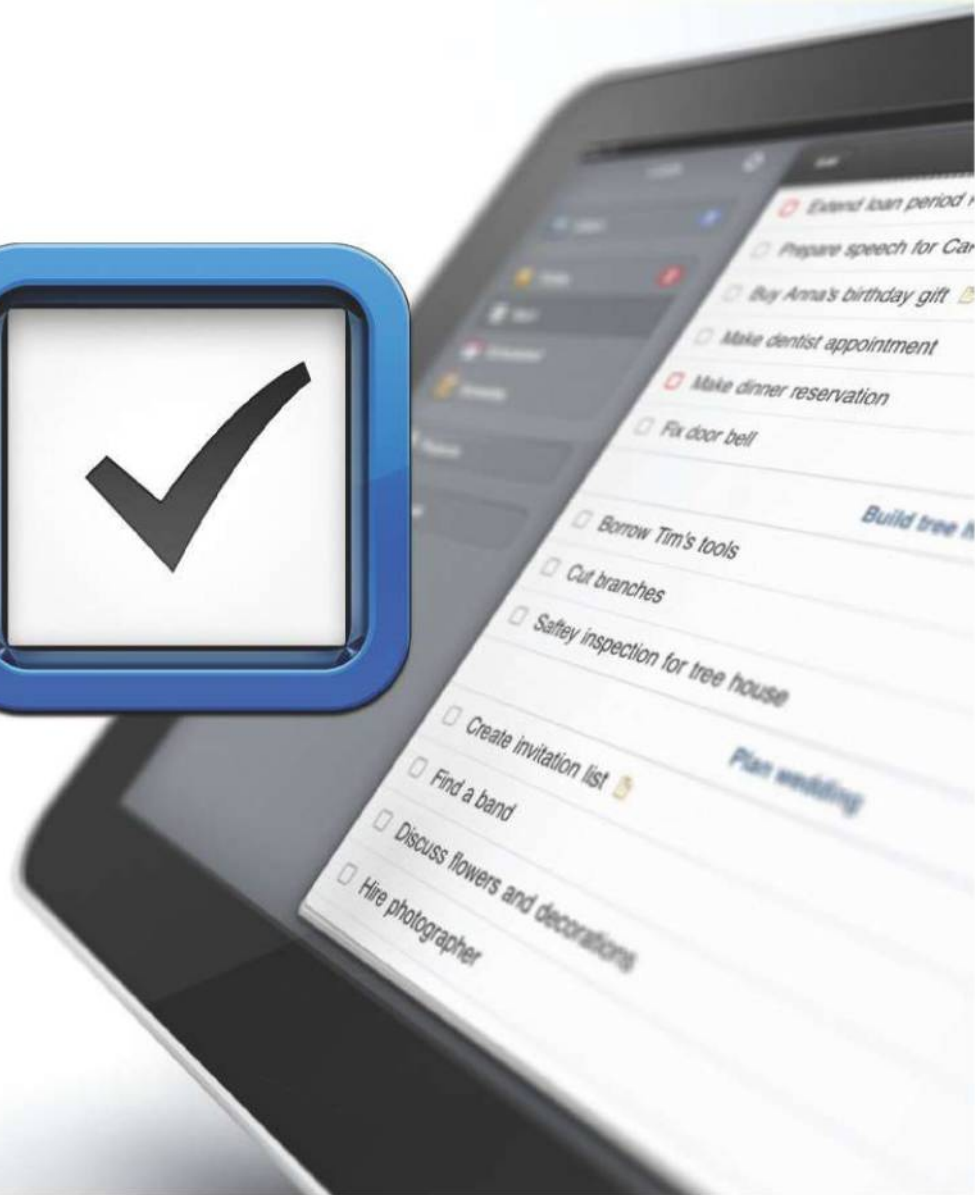
At first glance Streamtime can be a little overwhelming with a large number of tabbed sections, each leading to more tabbed sub-sections. However, it does a good job of presenting an enormous amount of information and will be suitable for small studios and larger organisations alike.

Nessan Cleary

A new home for your to-dos.

Things

for iPad



Managing your to-dos has never been this easy. Things lets you organize your tasks and projects in an elegant and intuitive way.

[Watch the video](#)

www.culturedcode.com/macworlduk

for Mac



Apple Design Award
Mac OS 4 Leopard Developer Showcase
2009 Winner

for iPhone & iPod touch



for iPad



Things can be synced wirelessly using Wi-Fi.

In-ear headphones

Enjoy great sound and fewer distractions with a new set of in-ear pluggers

Macworld Editors' Choice

CX 550 Style II

Company: Sennheiser, www.sennheiser.co.uk

Pros: Rich in detail, comfortable, stylish, good build, two-year warranty

Cons: Pricey

Price: £80

Star rating: ★★★★★

Sennheiser's latest noise-isolating earphones are a stylish and sturdy set. They're designed with a small arm tilted forward that helps the cable stay in place and routed cleanly to the ear. We found it to be a tight yet extremely comfortable fit.

In the box you get a selection of ear adaptors in two types and five different sizes. This ensures a good noise-isolating fit for any ear, allowing you to turn the music down a bit even in noisy places.

With miniaturised drive units and neodymium magnets, the Sennheiser earphones are a quality choice for music fans.

Sound is well balanced with plenty of detail.

The personalised fit helps keep distractions to a minimum, and the CX 550 Style II do a commendable job of keeping your ears and mind focused on the music.

Nick Spence



Richer sounds Sennheiser's CX 550 deliver well-balanced sound in style

SE115m+

Company: Shure, www.shure.co.uk

Pros: Good solid build; decent sound

Cons: Sound quality is a bit distant

Price: £129.99

Star rating: ★★★★☆

Shure's SE115m+ incorporates an iPhone mic and remote control. It's also compatible with Voice Over and iPod shuffle controls.

These noise isolating in-ear headphones come with oodles of ear pieces to get the best fit. The headphones are quite light and we found them comfortable.

The remote control is large. It doesn't weigh you down, but it's very high up on the right ear's cable and feels a bit awkward. The cable is strong and not as noisy as some when you walk.

Phone call quality is good on your end, but you might need to hold the mic at your mouth or shout for your voice to come across clearly at the other end.



Ear we go Shure's SE115m+ covers the full audio experience

Bizarrely, the headphone socket doesn't fit the original iPhone.

Sound quality for music is clear with strong bass, but we found music a bit distant and woolly, and only really satisfying at high volumes. If you're just looking for headphones to beef out your iPhone's sound, you're better off with something with fewer features and better audio.

Andy Penfold

DrumSoundz

Company: Maxell, www.maxell.eu

Pros: Antibacterial; good price

Cons: Sound is poor compared to cheaper models

Price: £19.99

Star rating: ★★★☆☆

Shoving things into your ears becomes almost second nature once you get used to in-ear headphones, but Maxell claims to make it a bit safer with its antibacterial earpieces on the DrumSoundz.

Aside from this very sensible selling point, though, the Maxell DrumSoundz are a little disappointing. At £20, they're a budget option, and the sound reflects the price – they're bassy, but lack clarity.

The design is also rather ugly. The headphones are huge, with shiny buttons that stick right out of your ears, and the in-ear part is tiny compared to the shell

it's attached to. Oval eartips are comfortable to insert, but the large shell means they don't go very far into your ears.

Ultimately, the sound is central to any headphone set, and these don't really deliver anything better than similar, and even cheaper, headphones.

Andy Penfold

Drum and bass If you're worried about hygiene the bassy DrumSoundz may be for you



IDR650m

Company: Scosche, www.scosche.com

Pros: Great sound; comfortable; integrated track and volume control

Cons: Integrated controls didn't work with iPhone 3G

Price: £59

Star rating: ★★★★★

The clarity of sound from the Scosche IDR650m earphones is excellent – rich and punchy. We loved the quality of bass and were able to hear parts of the music we'd never heard so clearly previously.

The ear pieces are very comfortable, and the choice of inners helps the sound isolation. The IDR650m offer noise-isolation with enhanced dynamic range, and they seal off background noise at a relatively low volume.

Runners and cyclists will particularly like the fact that you can change tracks using the earphone control. And there's a

volume control as well, although this wasn't compatible with the iPhone 3G we tested with.

There's also an integrated microphone for hands-free conversations, voice commands and recording voice memos on supported iPod and iPhone models.

While the sound is excellent, it will in no way satisfy audiophiles.

Megan Burger

Good all rounder Scosche's IDR650m offer great sound



Live. Life. Loud.

Great Sound. Innovative Design.



iHome®

Live Life Loud™

From iHome's best selling dual alarm clock radio to our 100 watt speaker system with patented Bongiovi Acoustics technology, iHome offers premium products with advanced features.



Check out all our cool stuff at
www.ihomeintl.com

For more information, please contact ihomeaudioUK@ihomeaudio.com



iHome is a registered trademark of SDI Technologies, Inc. iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries. Bongiovi Acoustics, Digital Power Station, and the DPS symbol are trademarks or registered trademarks of Bongiovi Acoustics, LLC. All other marks are trademarks of their respective owners.

www.WorldMags.net & www.aDowns.net

Mac gems

The best utilities and programs that make life easier. By Karl Hodge



Macworld Editors' Choice

Instapaper

Instapaper! Get acquainted with this rather spiffing web service

Pros: Get rid of web distractions; save long articles to read at your leisure

Cons: Doesn't manage to completely declutter the page
Free, www.instapaper.com, ★★★★★

There's a lot of buzz about Instapaper, so it's gratifying to report that it's hype-worthy. Instapaper is a brilliant service for the iPad age, which is what we've just dubbed the next decade. Well, half a decade at least.

Part feed reader, part bookmark tool, it's a simple idea that's been well executed. We all know what it's like to find an interesting article online but you have to pick up the kids or head off to a meeting. You don't have time to read it, so you bookmark it or, worse, forget about it. That's where Instapaper comes in.

When you join up, Instapaper prompts you to add a bookmarklet to your browser's toolbar. The next time you stumble across a useful article online, you click Read Later instead. It'll be added to your Instapaper account, ready to read when you have the time. Better than that, Instapaper strips all the extra bits from the page – leaving just the main content, formatted for easy reading or printing. Once you've read an article, it's automatically archived, with your main page displaying a list of all your latest additions.

On top of this core functionality are a small collection of apps and extras. You can access Instapaper on your iPhone, for example, or have articles delivered wirelessly to an Amazon Kindle. You can even select items directly within some of your favourite RSS tools, like Google Reader. And to make organising your collection of saved articles easier, they can be sorted into folders.

As soon as we tried Instapaper, we knew that it would immediately become part of our daily workflow. If you have lots of online reading to do, it'll become part of yours too.



Read all about it Instapaper's service makes reading text on the move a ton easier

FileChute 4.3

A favourite file transfer tool of ours, we look at why you should buy FileChute now

Pros: Easy to use, drag-and-drop interface; generates URL to paste

Cons: Could be improved with features that launch mail, IM, Twitter apps; MobileMe bias

£11.68, www.yellowmug.com/filechute, ★★★★★☆



No attachments Need to send a large file to a friend? Chuck it down the FileChute

We first looked at FileChute a couple of years ago and nothing has come along since that matches its simplicity functionality. Meanwhile, the developers have quietly been adding useful features under the bonnet.

The basics are easy to explain. FileChute is a file transfer tool, using FTP or WebDAV to upload archive, images or other large files to a target destination. The emphasis here is on ease of use – you set up a destination, then drag and drop files or entire folders to the FileChute icon. There's no need to manually establish a connection or even click a button. FileChute does it for you, seamlessly. If your file isn't already compressed, FileChute can do it for you on the fly – archiving in dmg, zip or the Linux-favoured tar format.

The cleverest bit is yet to be explained. FileChute generates a URL for your transfer, ready to paste into emails or an IM window. And unlike other FTP tools, FileChute automatically sets an expiry time on files that you upload – deleting them when their time is up, if that's what you want.

Since we last reviewed FileChute, it's added a few new features worth a mention. Support for multiple URL shortening services makes it easier to tweet or instant message file links, and you can switch between services. Support for .Mac has changed to MobileMe – though other WebDAV services can still be configured. It's also fully Snow Leopard compliant.

FileChute is a perfect tool if you have to frequently deliver large files. Video makers, graphic designers and photographers will love it. As for us, we use it just about every day.

Minotaur in a China Shop

Every loser wins, crooned 80s heartthrob Nick Berry. We think he may have been playing Minotaur in a China Shop...

Pros: Fast, fun, gaming for free.

Cons: A bit repetitive; requires bespoke player download
Free, www.a.blurst.com/minotaur-china-shop, ★★★★★☆

Let's begin by stating very clearly that Minotaur in a China Shop is a browser-based game, requiring that you download and install a non-standard helper application – the Unity Viewer. We include this disclaimer because it's a bit of pain to do. On the other hand, it gives you access to a host of free games on the same site. Swings, meet roundabouts.

So, is it any good? Put it this way. Minotaur in a China Shop is two years old – but the moment we started playing we knew it was a game we had to review. It's not difficult to master and the graphics aren't particularly impressive. The apparent gameplay is straightforward. You're a Minotaur – the mythic half-man, half-bull beast of legend – and you just happen to be in charge of a china shop. Other animals wander in asking for items of crockery, as they do. You have to retrieve said items, which isn't as easy as it sounds. You're a Minotaur after all – and a big, clumsy one at that. So, to avoid losing money, you have to be careful not to break anything. Or do you?

Here's where Minotaur In A China Shop becomes a game worth reviewing. The game changes when you knock stuff over. You have a choice: go into a ballistic rage and break as much as you can or continue as before, daintily fulfilling your customer's needs. It challenges the player's view of winning and losing because, either way, you win. You get to choose which method of gameplay works best for you.

As the game continues and you amass points, and new moves are unlocked that'll help you progress. It's fun and funny and it's free. You can't get better than that.



No bull Collect or destroy, play nice or make mayhem, the choice is up to you in a game where there's more than one way to win

Burn

A simple disc-burning tool that covers all bases, ideal for turning video clips into DVDs that can be played anywhere

Pros: Tabbed, easy to use dialog; no wizards or frilly templates

Cons: Couple of our attempts to create discs produced coasters, with no error messages

Free, www.burn-osx.sourceforge.net, ★★★★★



Burn, baby, burn It's not pretty, but Burn brings together media conversion and disc burning tools seamlessly

The lack of a decent, built-in DVD burning application in Mac OS X is something that occasionally triggers a temporary rage in us. There's iDVD in the iLife suite, of course – but that's a bit toy-town for everyday use, with its wizards and trite templates. The standard is the award-winning Roxio Toast, now up to version 10.

Toast really is excellent software, with advanced tools and features such as scene extraction and automatic music capture. There's even Blu-ray support – at a time when Blu-ray enabled Macs are as rare as rocking horse droppings. But you can have too much of a good thing sometimes, which is why we're highlighting Burn.

A tool built on open source code, Burn does the lot. It prepares and burns audio, data and video DVDs and CDs, with the last functionality being the most impressive. Chuck a Windows AVI at it and it coquettishly asks if you'd like to convert it to an MPG. Of course you do. Burn gets on with the job with the tiniest amount of fuss, creating a compatible file, then burning it to DVD. It supports VCDs and SVCDs too – a format that hasn't caught on terribly well over here, but was briefly beloved in Asia. Anyway, it enables you to add movie files to standard CDs, which can be played back in most DVD machines.

Burn's interface is simple and utilitarian. There are no cartoon icons or Disneyfied directions. It's just a serious tabbed dialog window with Data, Video, Audio and Copy as options.

If you need an intuitive, small and robust tool to back up files, make CDs and transfer holiday films to DVD for family viewing, Burn is really all you need. And, with its open source origins, it's entirely free.

Macworld Editors' Choice

Guitar Pro 6

Whether writing your own music or transcribing the works of your heroes, Guitar Pro helps notate tunes easily

Pros: Automatic score creation from tablature; supports alternate tunings, drums and bass

Cons: No export for popular Power Tab format; cheesy example files

£52.90, www.guitar-pro.com, ★★★★★

Guitarists have had disadvantages in the digital world, but the divide is closing. With MIDI Guitar controllers tracking faster than before and a range of guitar-to-computer interfaces appearing, it's easier than ever to record guitar. The one hole left to patch is in the easy creation of tablature. That's music notation specific to the guitar. Guitar Pro fills that gap very effectively.

Now in version 6, but new to us, Guitar Pro is a mature application that runs on Windows and Linux as well as Macs. We were impressed by the range of features and ease of use. The core function, entering guitar tablature, is the most intuitive we've encountered. Having used and abandoned several tablature programs in the past, including the ubiquitous Power Tab Editor, we were surprised at how quickly we were able to pick up keyboard shortcuts for adding and editing notes.

One genius idea that initially tripped us up – Guitar Pro automatically detects the end of bars as you input notes. However, when you go back to edit a bar, it does so non-destructively, preserving the notation after that point. Other score writing apps tend to update in real time, which we've often found confusing.

Notation's only part of the program though. There's built-in soft synth with realistic guitar, bass and drum sounds. With MIDI import, you can use it accompany you as you play – or arrange a song for your band with audio preview. There are even built-in effects and amp emulation to better match the sound you're after.

Whether you're a one-man band, writing songs, or need a tool to input MIDI data into other applications, Guitar Pro 6 is a pretty impressive addition to your kit.



Take note Guitar Pro 6 gives you everything you need to write down your musical ideas and arrange them in full guitar group format

Go wild.

Think inside out.
Safari Collection for iPad



Monday to Friday.



Weekend.

more.™

© 2010 more-thing. All Rights Reserved. more.™ is a trademark of more-thing Company Ltd. Apple and iPad are trademarks of Apple, Inc., registered in the U.S. and other countries.

iPhone & iPad gems

The best applications for the iPad, iPhone and iPod touch

Articles

The mobile Wikipedia client works well, but doesn't stand out

Pros: Bookmark articles, save photos direct to iPhone

Cons: Slow compared to free Wikipedian

£1.79, www.sophistication.com/articles, ★★☆☆☆

Articles allows you to access and read Wikipedia on your iPhone or iPod touch. The £1.79 app offers access to a wealth of information but with one small caveat – it takes a while to get to that info.

Think of Articles as a pocket-sized version of Wikipedia. The app uses the same navigational controls as the iPhone's Safari browser. Articles includes a search bar at the top of the screen, navigational arrows at the bottom and a new tab system that allows users to keep multiple pages open at a time.

Once you find an interesting article, you can bookmark it and add it to a folder for later reading. You can also save photos directly to your iPhone with a tap of a button. Articles keeps copies of previously viewed entries in its history folder for easy offline viewing. It should be noted, however, that viewing new entries requires an active network connection.

If you're looking for something new to read, Articles has you covered. The app includes a Surprise Me button, which displays a random Wikipedia entry, and a Nearby button, which displays entries on places based on your iPhone's location-awareness feature.

The downside? Relatively slow load times. In testing Articles, we found load times for most entries ranged between 6 and 14 seconds – slow when compared to the free version of Wikipedian, which we've had on our iPhone for more than a year.

Articles gives you handy mobile access to Wikipedia but there are faster dedicated Wikipedia apps for your iPhone.

Brendan Wilhide



Wikipedia to go

Articles offers you mobile access to Wikipedia entries; you can even bookmark entries for later reading

Resident Evil 4 iPad Edition

Zombies won't be the only thing groaning about this port to the iPad

Pros: Looks impressive; complex textures; excellent frame rate

Cons: Limited controls leave you vulnerable; frustrating and time-consuming dialogue

£5.99, www.capcom.co.jp, ★★☆☆☆



Vulnerable to attack You're forced to toggle between shooting/stabbing/walking modes

Resident Evil 4 iPad Edition brings the celebrated title to Apple's tablet. Fans of the Resident Evil series will appreciate the game's HD transition to the iPad, but newcomers and old-hands alike will bemoan the game's limited controls.

Resident Evil 4 casts you as Leon S. Kennedy, a US agent tasked with rescuing the president's kidnapped daughter. Along the way, you'll encounter hordes of zombies and other unpleasant individuals who want to kill you. Your job is to kill them first.

Unfortunately, Resident Evil 4 iPad Edition makes that unnecessarily difficult. When we reviewed the iPhone edition we praised the virtual d-pad's responsiveness, and that carries over into the iPad edition. However, we also criticised the fact that you have to hit the action buttons to enter and exit shooting/stabbing/walking modes.

You'd assume that Capcom would address these complaints about the iPhone version when bringing Resident Evil 4 to the iPad. But you'd be wrong. Because you can't fire your gun or use your knife while moving, you're constantly forced to toggle between those modes. Since it takes a moment to make the switch, you often leave yourself vulnerable to your attacking enemies. It's lousy.

But if you're able to look past our grievances – and are incredibly patient – Resident Evil 4 can offer hours of gaming.

Lex Friedman

Camera Plus Pro: Photo+video

All-in-one photo app truly does it all – but it could stand to do things better

Pros: Lots of choices for editing images; Burst Mode; artificial flash; adds 'video' to older iPhones

Cons: Video is more like a low-resolution flip book; 3 x 3 grid and Big Button disable manual focusing

£1.19, www.globaldelight.com, ★★☆☆☆

From tasks as simple as taking a photo and saving it to your camera roll to taking a series of shots in burst mode, changing the brightness and saturation, and uploading the image to Flickr, Camera Plus Pro does it all. We only wish it did it better.

Camera Plus Pro presents you with a screen similar to the default camera app, with a big button in the centre of the toolbar for capturing images. Tap the button, and Camera Plus Pro captures the image, geotagging it in the process. Tapping the icon on the left of the screen brings up a list of choices, including a horizontal slider that lets you zoom in on the image, however this is only digital zoom so expect lower quality picture.

The Burst Mode lets you take a configurable number of shots at one-second intervals. A Timed Capture feature adds a user-specified interval between tapping a button and the moment the shot is taken.

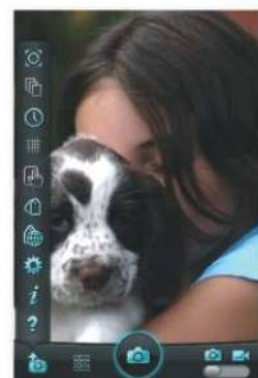
A gridlines feature divides the screen into a 3 x 3 grid for composition. The Big Button feature turns the entire screen into a shutter release button. (Note that the 3x3 grid and Big Button disable the manual focusing feature of the iPhone 3GS.)

Camera Plus Pro also offers video capture with live digital zoom, albeit low-res and in need of improvement, as acknowledged by the makers. An enticing package nonetheless.

Aayush Arya

Photo tools

Camera Plus Pro gives you a staggering variety of options, both for taking photos and editing them once you're done



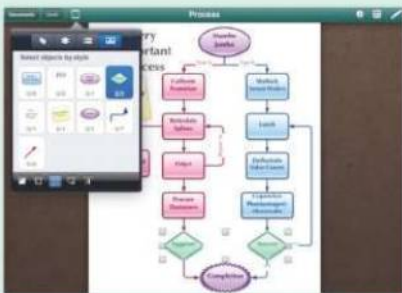
OmniGraffle for iPad

Premium iPad app aims to help you express your ideas visually

Pros: Undo button; clever shortcuts; functional

Cons: Some bugs; complex and clunky; problems arranging objects

£29.99, www.omnigroup.com, ★★☆☆☆



Taking shape Create new shapes by hand or choose from built-in stencils

Omnigraffle translates the programming depth of Mac software to the iPad quite cleverly. By default, your document will be in a layout and object editing mode. You tap once on an object to select it, and then tap on the info button to bring up a palette that lets you adjust things like fonts, colours, or fills. Tap and hold on an object to move it; tap and hold on one of its handles to resize it. Tap, hold, and release to reveal a contextual menu to copy, paste, delete, group, or lock objects.

Creating objects can be more complex. You can use built-in stencils by dragging and dropping, but to draw your own shapes you need to enter the drawing mode – which itself can toggle between a predefined shape mode or a freehand mode. It's a bit clunky, even after you've mastered the technique.

As we worked with more complicated layouts, we started searching for send to back functionality so we could arrange overlapping objects. That functionality is there: you tap the layers button, and then edit to drag and rearrange the ordering of various objects. It works fine if you have just a few objects, but becomes unmanageable fast.

OmniGraffle wisely sports an Undo button, and we learned a few shortcuts without even trying; we noted that tapping with three fingers immediately pasted whatever we'd copied without needing to trigger the paste menu first.

Occasionally, some edits – like adjusting font size, for example – take far longer than they should. We also encountered some occasional crashes, particularly when editing while zoomed in. We expect that a future update will address these 1.0 bugs.

Overall, creating and editing diagrams and wireframes with OmniGraffle for iPad is fun and functional. Often though, creating new documents on the iPad feels a bit slow. Still, the amount of functionality is astounding.

Lex Friedman

Call of Duty: World at War: Zombies for iPad

What's more frightening than Nazi zombies? High-definition Nazi zombies

Pros: Enhanced graphics; price tag includes additional map

Cons: Slight pixilation; difficult to reach controls

£8.99, www.codvaw.com/zombies, ★★☆☆☆

Call of Duty: World at War: Zombies for iPad combines the new features of the iPad with some prescient updates for an improved zombie-slaughtering experience.

The iPad's larger screen does wonders for the game's graphics. Suddenly, there are new little details, like the roughness of your character's hands and the bloody stains on those of the zombies. The field of vision feels much bigger, due not only to the bigger screen but also to a smaller portion of the screen taken up by buttons and joysticks.

The downside is that the game still looks rudimentary compared to the console version of the game, but the iPad version does look much improved over the iPhone version.

The maps – Nacht der Untoten and Zombie Verrückt – feature the same bombed out, post apocalyptic, World War II themes; the £8.99 price tag includes both maps, so the complete game costs the same as its iPhone predecessor with the in-app purchase of the second map (an extra £2.99).

Unfortunately, the controls are still stiff. There are some great upgrades, like the new reload button, but it still takes time to master them. People with larger hands struggled to grasp the iPhone and move the joysticks, with the iPad version it can be uncomfortable for the small-handed to stretch their thumbs to the controls. Thankfully, a touch screen allows you to swipe the screen anywhere to look around, while tilt uses the iPad's accelerometer to control the view.

The bottom line is the iPad does feel like a more natural fit for the Call of Duty: World at War: Zombies experience. That said, those who already have the game on the iPhone may not be willing to shell out an additional £8.99 for a slightly better realised version of the game.

Meghann Myers



Undead duty The iPad version of Call of Duty: Zombies gives you an improved zombie-slaughtering experience

Go wild.

Reversible Series
Safara Collection for iPad



Black/Camo



Neon Green/Blue Camo



Purple/Zebra

more.™

more-thing.com

© 2010 more-thing. All Rights Reserved. more™ is a trademark of more-thing Company, Ltd. Apple and iPad are trademarks of Apple, Inc., registered in the U.S. and other countries.

remixremote

high-definition metal headphones
featuring remastered HD sound

3 button remote control




v-moda



take control of your new iPhone 3GS, Macbook and iPod by operating volume, playback, as well as voice control, memos, and applications such as Skype, iChat, and more all from your headphone remote.*

available at apple store and v-moda.com

*for complete compatibility visit v-moda.com/compatibility



computer + mp3

When it comes to making the most of your photos, bigger is definitely better. So which of these A3 photo printers came through our tests with flying colours? **By Rob Mead**



GROUP TEST



A3 photo printers

Ever since the advent of the digital camera, we've been churning out snaps with wilful abandon, only to stow them away for occasional viewing on our Macs, iPods and iPads.

That's a shame, because not only is producing lab-quality photo prints spectacularly easy, it's also incredibly powerful. By showing or sharing a physical artefact made with paper and ink you create a relationship with the viewer that's full of emotional resonance, akin to viewing a painting in an art gallery. And it goes without saying that the bigger you print it, the more visual impact it will have – which is why professional photographers and passionate amateurs alike use A3 photo printers to reproduce their work.

To help you get a piece of the action, we've tested four dedicated A3 photo printers – the

Canon Pixma iX7000, the Canon Pixma Pro9000 Mark II, the Epson Stylus Photo 1400 and the Epson Stylus Photo R2880. Hook any one of them up your Mac and you'll be able to glory in the results of your efforts – whether it's a candid family snap from your holidays or a considered piece of photographic art.

Each one of the four printers we've chosen is a big step up from the all-in-one or dedicated photo printers you may find in your average high street electrical store. They usually hold a wider range of inks so you can get more accurate printing results, while also helping the ink you do buy to last longer.

These printers also offer a wider range of media input options – from single sheet feeders to roll feeders, paper cassettes to CD/DVD

printing – and allow you to print on a wider range of papers including photo paper, fine art paper and even board. They're also capable of churning out prints all day if they have to – handy for professionals who need to produce a lot of work in relatively short order.

Of course, all of these benefits are reflected in the printers' prices – you won't find anything here that costs less than £300 and at the top end you can expect to pay £500 or more.

The question is, then, which one of our four gives you the best overall value for money, with outright picture quality as our guiding principle? And since you can also expect to pay more for the ink and paper you use, we'll be looking at page yields and print longevity too.

So let's get on with it, shall we?





All business The Pixma iX7000 is more an A3 workhorse for small offices than a photo printer, and that's reflected in its print quality

Canon Pixma iX7000

Seeing this printer in the flesh for the first time is like being a tugboat captain who's expecting to handle a cruiser, only to see an aircraft carrier turn up instead. This thing is huge. Measuring 647 x 530 x 260mm bow to stern and weighing in at 19.8kg, it's a squeeze to get onto your desk and it almost takes two people to get it there in the first place. The Pixma iX700's dark grey/silver finish and boxy looks round off the aircraft carrier analogy nicely.

Sticking out the front is a 250-sheet cassette that's capable of taking paper up to A3 in size, plus a 10-sheet plain paper tray for manual feeds. At the back is a 20-sheet tray for photo paper, plus an auto-duplex unit for double-sided printing.

Inside you'll find five slots for Canon's Lucia pigment-based inks (pigment black, black, cyan, magenta and yellow), along with a sixth slot for a clear ink, which helps with fade resistance, colour bleed and smudging. Getting the printer up and running is very straightforward using a combination of Canon's own software and Apple driver updates, but you may be alarmed by the Pixma iX7000's regular bouts of vigorous shaking, caused by its need to agitate the ink inside the tanks when the printer's sitting idle – you're probably better off sticking it on its own table, if possible, although with a single USB connection, and no Ethernet or WiFi, your options are a little limited.

Another more serious sticking point is that the Canon Pixma iX7000 isn't really aimed at photo enthusiasts as such; its primary target being Small Office Home Office users and Small and Medium Enterprises. While it's capable of producing good-looking prints, it's not as accomplished a performer as its bigger brother, the Pro9000 Mark II. Contrast and colour accuracy aren't as good and there's a noticeable loss of detail in dark areas of the picture. Having said that, the Pixma iX7000 churned out our test image in just 2 minutes 30 seconds in standard mode and 4 minutes at the highest quality, which is pretty quick for an A3 printer. Cost per print using Canon's Pro Platinum photo paper is £1.86.

Company: Canon, www.canon.co.uk

Pros: Easy to set up and use; fast A3 print times; good print quality; good range of media input options, including a flat paper path

Cons: Big and heavy; connection options limited to USB; movement and noise during ink tank stirring; photo prints lack detail

Price: £429 (£315.96 Amazon)

Star rating: ★★★★★



Crystal clear Canon's Pixma Pro9000 Mark II is capable of producing great quality prints. It's quick and economical to run too

Canon Pixma Pro9000 Mark II

After its impressive opening salvo in the shape of the Pixma iX7000, Canon's next round could leave you feeling a little underwhelmed. Don't be. Its workmanlike appearance belies its powerhouse capabilities as a dedicated A3 photo printer – something that reveals itself when you flip open its lid and realise you have to slot eight individual dye-based ink cartridges costing around £10.99 each into its printhead.

Once you've regained your composure over that (and the £529 cost), it's time to take a serious look at its virtues. Having individual ink tanks should not only save money in the long run by allowing you to use less of each one with each print, but with black, yellow, cyan, magenta, photo cyan, photo magenta, red and green colours on board, the results promise to be pretty good – more on that in a moment.

As you'd expect from a dedicated photo printer rather than an office workhorse, the Pro9000 Mark II has a remarkably different approach to paper handling. Instead of a front-loading cassette tray and duplex unit, you get a rear paper tray that's capable of holding up to 150 sheets of plain A3 paper at a time, plus a one-sheet manual feeder at the front.

Getting the printer up and running in short order is easy too, although this time, you have the option to use Adobe Photoshop Elements 6.0, which is included as part of the bundle. The Pro9000 Mark II can also accept a wide range of photo and fine art papers, along with other third-party materials (including canvas) and it has a flat paper path.

Printing out our test image using both the standard and highest quality settings netted us output times of around 2 minutes and 4 minutes respectively – again a remarkable performance given that its A3-size we're talking here. But it's the image quality that really impresses. It's immediately obvious that the Pro9000 Mark II is capable of far better results than the iX7000 and delivers great colour accuracy, contrast and shadow detail, cleanly picking out areas of the picture that are lost on the iX7000. Page yield costs come in at £1.87 per print using Canon's Platinum Pro photo paper.

Company: Canon, www.canon.co.uk

Pros: Excellent picture quality; fast A3 print times; flat paper path; wide choice of paper and third-party materials options; easy to set up and use

Cons: Dull appearance; initial cost; dedicated Photoshop plug-in has a tendency to crash; no onboard WiFi or Ethernet printing options

Price: £529 (£429 Amazon)

Star rating: ★★★★★

Software your business will love. Now even better.



The new Mamut AccountEdge software range for small businesses builds on the success of MYOB's award-winning Mac products.

Plus, with exciting new features like card file action menu, Business Insights, profitability of a sale and additional item attributes, now you can run your business even better.

With licence prices starting from just £149* there's no better time to give your business software it will love at a price to fit the smallest budget.

Find out more by calling **0800 389 4094**
or visit **www.mamut.co.uk/mac**

*A mandatory Support Agreement is payable annually in addition



Slightly exaggerated The Stylus Photo 1400 is a great printer if your starting budget is low, but you'll incur high ongoing costs

Epson Stylus Photo 1400

For those on a tight budget, the £320 asking price of the Stylus Photo 1400 seems like a bargain indeed. That's partly down to the fact that this printer is three years old already, so prices have reduced, which is a great reason to pick one up if you're a home photo enthusiast who only needs to print out A3 photos very occasionally.

Of course, getting an A3 photo printer this cheap means costs have to be cut somewhere and the Stylus Pro 1400 doesn't come with all the bells and whistles of the other printers here. For a start, it uses six dye-based Claria inks in individual ink tanks – cyan, magenta, yellow, black, light cyan and light magenta. Dye-based inks traditionally have a tendency to fade faster than pigment-based inks – especially if you plan to keep them in the open air – although they should last for up to 98 years.

The Stylus Photo 1400 also dispenses with a flat paper path, which rules out using certain kinds of media such as thick card. Instead you get a rear paper feeder that's capable of holding up to 20 sheets of photo paper at time, with your prints popping out the front. It does, however, come with a front-loading slot for printing professional-looking CDs and DVDs.

The Stylus Photo 1400 also stands in stark contrast to either of the Canons when it comes to print times. In fast mode, it averaged at 3 minutes 25 seconds to print out our A3 test page, rising to over 16 minutes at the highest quality setting. The end result wasn't necessarily worth the wait either.

Although it's capable of delivering strong, vibrant prints with accurate skin tones, the Stylus Photo 1400 also has a propensity for exaggeration, making images looking oversaturated. This is particularly noticeable in dark areas of the picture where the strong contrast makes it difficult to pick out shadow detail.

You could easily make the necessary adjustments using Photoshop, but the default settings leave something to be desired. The page yield cost isn't particularly attractive either; using Epson's A3 Premium Glossy Paper, the price of individual prints works out at £2.03 per print.

Company: Epson, www.epson.co.uk

Pros: Relatively cheap to buy compared to the competition; easy to set up and use; highest quality setting gives vivid, high-contrast results in default mode

Cons: Costly paper and ink; limited connectivity options; slow print times at the highest setting; prints tend to be dark with a resulting loss in shadow detail

Price: £319.99 (£249.17 Amazon)

Star rating: ★★★★★

Macworld Editors' Choice



In control If you're serious about A3 photo printing you need a serious printer. The Epson Stylus Photo R2880 is it

Epson Stylus Photo R2880

If the Stylus Photo Pro 1400 is a great option for budget-conscious buyers then it's big, bad brother is almost the polar opposite. At a shade over £700, it's the most expensive printer in this test by miles, but boy, do you get what you pay for.

The Stylus Photo R2880 uses 10 Ultra-Chrome K3 pigment-based inks housed in individual ink tanks (photo black, matte black, light black, light light black, cyan, light magenta, vivid magenta, yellow, light cyan and light magenta) although you can only feed it with nine at any one time – which means you have to swap out the matte black if you want to do photo prints, and then swap it in again for standard documents. Quite why Epson hasn't been able to integrate both is a bit of a mystery, but for the purposes of this test we put the photo black cartridge in and then stuck with it.

Getting the printer up-and-running is easy, with paper slotting into the 120-sheet rear sheet feeder, a dedicated attachment for roll paper and a flat paper path for thick card or board. Despite all this the Epson Stylus Photo R2880 is remarkably compact and light for an A3 photo printer, measuring just 616 x 322 x 214mm and weighing 12kg – something that makes it easy to put on a desk at either home or in the office.

When it comes to your prints, the Stylus Photo R2880 has another ace up its sleeve – it uses sophisticated look-up tables and has a fine black level adjustment, although we stuck with the default settings. The end result is spectacular. In fast mode the printer delivered our test print in a little over 5 minutes, with the highest quality setting taking just shy of 9 minutes. That's slower than either of the Canons, but the end result is stunningly vivid photos with excellent colour accuracy and good shadow detail using the default settings.

Given that Epson printers tend to produce darker-than-average-pictures, the welcome addition of a dedicated black level control in the print dialog box is good news. It allows you a fine level of control that helps lift shadowy areas of the picture. The page yield using Epson A3 Premium Glossy paper works out at £2.06 per print.

Company: Epson, www.epson.co.uk

Pros: Excellent picture quality; small footprint; easy to set up and use; good range of media input options, including roll paper adaptor; pigment-based inks

Cons: You still have to swap out matte black and photo black ink tanks; limited connectivity options; default settings can leave your prints looking a little dark

Price: £719.99 (£588.96 Amazon)

Star rating: ★★★★★

The 1&1 server that is totally configurable to your needs:

DYNAMIC CLOUD SERVER

A powerful virtual server environment with full root access – adjust the processor core (up to 4 cores), RAM (up to 15 GB), and hard disk space (up to 800 GB) to suit your needs. With the 1&1 Dynamic Cloud Server, you can change your specifications at any time, up or down!



**ADJUSTABLE HARDWARE CONFIGURATION
TO SUIT YOUR NEEDS!**

1&1 Dynamic Cloud Server – basic configuration includes:

- ✓ **1 Core of Quad-Core
AMD Opteron™ Processor 2352**
- ✓ **1 GB RAM**
- ✓ **100 GB Hard Disk Space**
- ✓ **Unlimited Traffic**

Basic configuration only

£29.99
per month*

Go to www.1and1.co.uk for other fantastic offers.

*Terms and Conditions apply, please see website for further details. Prices exclude VAT.



Call **0871 641 21 21** Calls cost 6p per minute from a BT landline, calls from other operators and mobiles may be higher.
or visit us now **www.1and1.co.uk**

www.WorldMags.net & www.aDowns.net

1&1

“We were a bit discombobulated by the Pixma iX7000’s regular need to shake around the ink in its tanks”



Macworld’s buying advice

There’s a lot to like about all four of the A3 photo printers in this test. At £320, the Epson Stylus Photo 1400 offers good value for money. It’s not the quickest or best performing, but its low asking price is ideal for anyone who wants to produce big prints on a limited budget, even if the paper and ink prices are higher than the rest. In this company it takes fourth place because the other printers here perform better, but it’s a close call.

Taking third place is the Canon Pixma iX7000. This monster of a machine is more suited to small businesses than home photo enthusiasts – and that’s reflected in the way it works. It’s capable of churning out colour documents all day every day, and at double quick time, but its standalone photo print

performance falls short of the best performers here – the Canon Pixma Pro9000 Mark II and the Epson Stylus Photo R2880. We were also a bit discombobulated by its regular need to shake around the ink in its tanks – something you’ll especially notice if you have to share desk space with it.

In second place, then, is the Canon Pixma Pro9000 Mark II. At £529 it’s far from the cheapest option here, but what you get is worth every penny. That’s because it not only turns out great-looking A3 prints in remarkably short order, but it’s also relatively economical to run, despite the fact that you have to fill its insides with up to eight separate ink tanks. It’s also robust and easy to use although – like all the other printers here – it could do with offering a

few more connectivity options such as WiFi or Ethernet if it’s to be used at home or in a busy photo studio.

So the Pro9000 is pipped at the post by the spectacular Epson Stylus Photo R2880. Yes, it’s the most expensive printer here by a long stretch, but it’s the only one that really lives up to its promise of giving you brilliant quality A3 photo prints (and if you’re prepared to shop around online, you can pick it up for much less than the advertised price). That’s due in large part to its use of 10 pigment-based inks, which allow it to faithfully reproduce nuanced colours on your images. The Epson Stylus Photo R2880 might not be the quickest or cheapest to run, but on the sheer quality of its output alone, it deserves to be the clear winner here. **MW**

How they shape up

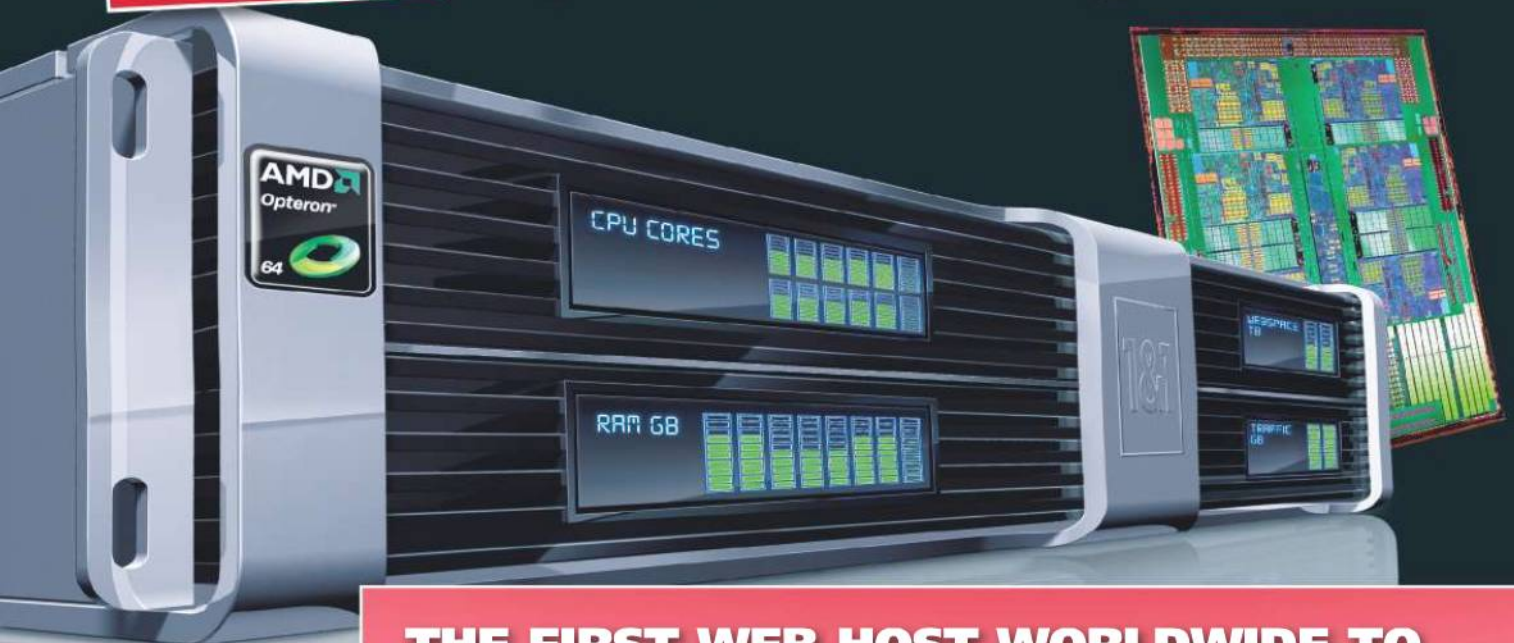
Product	Canon Pixma iX7000	Canon Pixma Pro9000 Mark II	Epson Stylus Photo SP1400	Macworld Editors' Choice Epson Stylus Photo R2880
Price	£429	£529	£319.99	£719.99
Print resolution (dpi)	4,800 x 1,200	4,800 x 1,200	5,760 x 1,440	5,760 x 1,440
Media type	A3+, A3, A4, B4, B5, Letter, Legal, Ledger Envelopes (DL, COM10), 20 x 25cm, 13 x 18cm, 10 x 15cm	A3+, A3, A4, A5, B4, B5, Letter, Legal, 36 x 43cm, 25 x 30cm, 20 x 25cm, 13 x 18cm, 10 x 15cm	A3+, A3, A4, A5, A6, B5, Letter, Legal, Ledger, 9 x 13cm, 10 x 15cm, 13 x 18cm, 20 x 25cm, 28 x 43cm, 30 x 30cm	A3+, A3, A4, A5, A6, B4, B5, US-B, Legal, Letter, 20 x 25cm, 13 x 18cm, 10 x 15cm, 9 x 13cm
Media input	Rear tray: 20 sheets; Cassette: 250 sheets; Manual feed: 10 sheets	Sheet feeder: 150 sheets; Front feeder: 1 sheet	Sheet feeder: 120 sheets	Sheet feeder: 120 sheets; Front feeder: 1 sheet; roll paper holder
Ink cartridges	6x individual ink cartridges (pigment black, black, cyan, magenta, yellow, clear), pigment-based	8x individual ink tanks (black, cyan, magenta, yellow, photo cyan, photo magenta, red, green), dye-based	6x individual ink tanks (black, cyan, magenta, yellow, light cyan, light magenta), dye-based	10x individual ink cartridges (photo black, matte black, light black, light light black, cyan, light magenta, vivid magenta, yellow, light cyan, light magenta), pigment-based
Page yields (ISO/IEC FCD 24711 + 24712)	Black: 565 pages; Cyan: 870 pages; Magenta: 715 pages; Yellow: 1,070 pages; Clear: 1,635 pages	Black: 400 pages; Cyan: 625 pages; Magenta: 478 pages; Yellow: 555 pages; Photo Cyan: 5,920 pages (estimate); Photo Magenta: 5,820 pages (estimate); Red: 5,840 pages (estimate); Green: 5,805 pages (estimate)	Black: 460 pages; Cyan: 1,425 pages; Magenta: 685 pages; Yellow: 714 pages; Light Cyan: 660 pages; Light Magenta 930 pages	Matte Black: 495 pages; Photo Black: n/a; Cyan: 1505 pages; Vivid Magenta: 865 pages; Yellow: 890 pages; Light Cyan: 865 pages; Vivid Light Magenta: 835 pages; Light Black: 6210 pages (estimate); Light Light Black: 6,065 pages (estimate)
Ink costs (direct from manufacturer)	Pigment black cartridge £11.99; All other cartridges £10.99	All cartridges £10.99 each	All cartridges £14.32 each	All cartridges £11.57 each
A4 paper costs (direct from manufacturer)	Canon Pro Platinum PT-101 (20 sheets) £36.99	Canon Pro Platinum A3 (20 sheets) £36.99	Epson Premium Glossy A3 (20 sheets) £40.66	Epson Premium Glossy A3 (20 sheets) £40.66
Star rating	★★★★☆	★★★★☆	★★★★☆	★★★★★

The latest 1&1 server innovation for high performance needs:

HEXA-CORE TECHNOLOGY

NEW

The ultimate in server technology, our powerful new hardware class with six-core processors gives you the high performance that you need to run resource-intensive applications.



THE FIRST WEB HOST WORLDWIDE TO PROVIDE HEXA-CORE SERVERS!

1&1 Hexa-Core Server XXL – the first dedicated server with a total of 12 processor cores:

- ✓ **2 x Six-Core AMD Opteron™ HE Processor 2423HE**
- ✓ **16 GB RAM**
- ✓ **1.5 TB of usable disk space with RAID 5**
- ✓ **AMD-P Energy Efficient Technology**

Only
£299.99
per month*

Go to www.1and1.co.uk for other fantastic offers.

*Terms and Conditions apply, please see website for further details. Prices exclude VAT.



Call **0871 641 21 21** Calls cost 6p per minute from a BT landline, calls from other operators and mobiles may be higher.
or visit us now **www.1and1.co.uk**

www.WorldMags.net & www.aDowns.net

1&1

harman/kardon®
by HARMAN

Macworld
Awards 2010
NOMINATION

Audio Jewellery.



5,680 carats of pure sound.

Desktop audio systems rarely merit superlatives for either their output or their aesthetics, but the Harman Kardon® GLA-55 speaker system is clearly exceptional.

The first true audiophile-quality sound system for computers, iPod players and other multimedia devices, the GLA-55 delivers impeccable sonic performance from exquisitely crafted crystalline enclosures unlike any that have come before. With high-excursion, aluminum-cone woofers in a Slipstream port design, edge-driven CMMD® dome tweeters and 110 watts of onboard amplification, the sound is as distinct and clear as the speakers themselves.

Discover technology that entertains beautifully at www.harmankardon.com. For more information or to locate your local Harman Kardon dealer, phone Harman Consumer UK on 01707 278100.



iPad **VS** MacBook

VS iPhone

Can the iPad replace your MacBook or iPhone?

By Karen Haslam



PHOTOGRAPHY: PATRICK LLEWELYN-DAVIES

Apple's iPad competes with an array of existing devices. Where previously you'd have used your Mac to type up a document, now you can use an iPad. Rather than access your email on your Mac or iPhone, you can now quickly tap in a reply on an iPad. Your favourite iPhone games can be enjoyed in HD thanks to the 9.7in iPad screen. And you can download movies to your iPad for a long-haul flight, safe in the knowledge that thanks to the 10-hour battery life you won't be out of power before the end of the journey.

There is a lot you can do on an iPad, but can it actually replace your MacBook and iPhone, or even your games console or TV? Replace is a big word, the real question is whether your iPad could become your preferred device for doing many of the things you now do on your MacBook, iPhone and other devices, and that's what we are going to investigate here.

The best way to figure out whether the iPad's a plausible alternative to a PC, an ebook reader, a games console, or any other gizmo is to give it a whirl. So we did.



Can the iPad entertain you?

We find out if the iPad is the best device for entertainment

The iPad is one of the most entertaining entertainment devices since the original iPod, and even more important, it's a breakthrough device that makes technology instantly accessible to ordinary people. Apple has long had a knack for designing complete products that appeal to both geeks and technophobes. Now it's even gone beyond that, crafting something that a child or a grandparent can take to with ease. This is a device that brings all of the fun but none of the complications associated with a computer.

The iPad is all about the screen. At 9.7in the colour screen may be small, but its IPS (In-Plane Switching) technology makes it look good from any angle. Some iPad sceptics have described the iPad as no more than a big iPod touch, and the iPad's comparatively large display certainly makes it the best 'iPod' for movie-watching yet. It's also the first 'iPod' that two or more people can comfortably watch together, at least if they're in close quarters, such as in adjacent airplane seats (and if they have the device nicely propped up). In fact, the iPad may be the best in-flight entertainment system ever designed, offering movies, games and more. And around the house, the tablet can serve as a sort

"The tablet can also serve as a portable TV/boom box. The speaker may be mono but it's loud and clear"

of portable TV/boom box – its built-in speaker may be mono, but it's loud and clear. In fact, the quality of the device's built-in speaker is impressive, especially compared to the iPod touch's speaker (terrible) or iPhone's speaker (less terrible).

That said, if one were to nitpick, it would be to carp about the speaker's one-sided nature. The speaker port is at the bottom of the device. When you turn the iPad to landscape orientation to watch a video, **Silver screen** The iPad's larger display makes it the best 'iPod' for movie watching

you hear most of the sound from the side of the iPad where the speaker port sits, making the sound unbalanced. When it comes to content, the iPad gives you everything that you can get on any iPod, and more. Rent a movie or download a series of your favourite TV programme. And even if you don't feel like buying your entertainment from iTunes, a wealth of stuff to see and hear is available, although we're waiting to hear when the BBC iPlayer will be available on the iPhone.

With its 9.7in screen the iPad is certainly more appropriate for viewing content than the iPhone or iPod, but will this convince you to leave your MacBook



in the corner? And when viewing movies and other video the iPad screen really shines – but does it shine too much, and can you ignore your reflection?

The real bonus of the iPad, when it comes to watching movies and other video content, is its portability and battery life, which will give you enough power for a long-haul flight between London and San Francisco. If you want to be entertained while in transit there is no better device for the job. Sure, you could pack your laptop, but it will weigh you down, and while the iPhone is great for watching the odd TV programme or film, the screen really is tiny.

page 50

Read on... iPad vs Kindle

When Amazon shipped its first Kindle in 2007, the ebook reader seemed to be the future of books. Side-by-side with the iPad, however, the Kindle now looks a tad retro. Apple emphasises this when you download its iBooks app by tossing in a free ebook with a feature that the Kindle can't match: colour pictures of Winnie the Pooh and pals.

The iPad's colour screen still doesn't render the Kindle irrelevant. Amazon's \$259 (£175) gadget is slightly less than half the price of a base-model iPad – and that includes wireless broadband that allows you to download books without paying a monthly service fee. And, at the moment, some Kindle books are cheaper than their iBooks equivalents.

Black and white
Amazon's Kindle looks a tad retro next to the iPad

Thanks in part to its 6in screen, the Kindle is far smaller and lighter (at 289g) than the 680g iPad. The Kindle's use of E-Ink technology lets it run for two weeks on a charge and keeps it readable in direct sunlight; in contrast, the same sunlight will wash out the iPad's LCD screen. And some ebook reader users find E-Ink to be easier on the eyes.

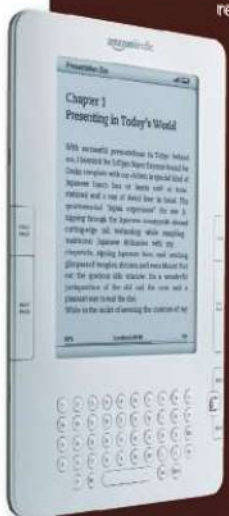
But the E-Ink screen is also the Kindle's most striking liability. It's monochromatic – dark grey text on a light grey background – and the lack of backlighting makes it hard to read in murky lighting. Photos and other images look as if they were drawn on an Etch-a-Sketch, and screen updating is sluggish.

The iPad? It sports one of the nicest colour displays of any portable device; it has

crisp black text on a white background; and you can flip through ebook pages as fast as your fingertip allows. In short, it's more like a real book.

Apple's iBooks Store launched with 60,000 titles, just one-sixth of the selection that Amazon provides for the Kindle. But on the same day that Apple started selling iPads, Amazon released an app that lets Apple's tablet become a Kindle, giving users access to all 480,000 digital tomes that are offered in the Kindle store. In addition, the iPad allows access to thousands of free books in ePub format, a system that you can't read on the Kindle.

Books, etc Apple's iBook store offered 60,000 titles at launch, including Winnie the Pooh. The Kindle book store is also available to iPad users





Refuse to Choose. Fuse.

With VMware Fusion® 3, you can run Windows software on a Mac, right alongside your Mac programs—simply and safely, without rebooting. By refusing to choose, you get the best of both, and Mac and Windows can live happily together.

Learn more at vmware.com/fusion



VMWARE
FUSION® 3



Shoot 'em up First-person shooters play better on the iPad because the interface is less cluttered

Flash in the pan

Of course, you won't be able to view all video content on the iPad. Should you wish to view a Flash-based video you'll have no luck. The iPad, like the iPhone, doesn't support Flash. This means that certain elements of some web pages won't work on your iPad.

It's not that the iPad can't support Flash, it's that Apple doesn't want to. Apple CEO Steve Jobs has deemed Flash bug-prone and suggested that it's the reason for most of the crashes in the Safari browser. Even worse, Flash could allow malware onto the iPad.

Nevertheless, the lack of Flash could be a real disadvantage for some. The majority of interactive elements on the web today are built in Flash, which means they won't work on the iPad. As an alternative to Flash, Jobs is putting his faith in HTML 5, the next iteration (still under development) of the HTML standard. Jobs and others are confident that as the standard matures, more web developers will create apps using HTML 5, which has a number of advantages over Flash, not least that it doesn't require installation of a third-party plug-in to view videos and other content on the web.

It's not just the lack of Flash content that may disrupt your surfing on the iPad. Safari on the iPad lets you open up to nine web pages at a time, but due to the iPad's limited memory, you'll often find that Safari can't maintain the content of all those pages; when you switch to a different page, Safari will often attempt to refresh it. This can be frustrating, especially if you loaded several web pages for offline reading – you end up with blank pages. Similarly, comparing multiple web pages is far more complicated than on a Mac where you can place pages side by side, switching between pages on an iPad involves multiple taps. And there is no simple way to collate the information you gather, other than closing Safari and opening another app and pasting information in there.

Of course, these issues with web browsing on the iPad are just the same as with the iPhone. Except that with the iPad you can see the whole webpage, rather than a small part of it. The iPad

definitely beats the iPhone for usability in this area. If you enjoy being able to access the web wherever you are, as you can with your iPhone, you may wish to invest a little extra in the 3G version of the iPad. A Mac may offer better browsing, but unless you have a 3G dongle, you are only going to get online where there is an available WiFi network.

Playing games

As a gaming device, the iPad has lots going for it. The display is large and gorgeous, the processor is snappy, and the multitouch interface allows for innovative ways to play. Plus, the App Store is a model of instant gratification: you can snap up relatively cheap games wirelessly.

The larger screen doesn't just mean you can see more of your game, it means that the entire control interface can be dramatically changed. With the

iPhone and iPod touch, gamemakers had to squeeze controls into a small space; the iPad's roomier interface allows them to offer more buttons, more control, and thus more complicated tasks.

However, the first question for iPad gamers is this: how the heck are we supposed to hold this thing? At 680g, it might seem light, but holding it aloft

for extended play sessions can be tiring. Trickier still is playing when you can't get a seat on the bus or are in a crowd: try flailing your arms around to steer that sports car while you're standing on a packed train.

And then there's the button issue. Steve Jobs hates them, but buttons are an important reason why the Nintendo DS and Sony PSP work so well: If you need to reload your weapon in a first-person shooter, your thumb can find that button easily while you concentrate on ducking behind a wall.

The iPad's controls are frequently just on-screen icons or arbitrary tapping patterns. It's no fun being killed because your thumb is a couple of centimetres off the trigger.

For some game genres, however, the iPad really excels. The device is big enough to be shared, making board games like Scrabble feasible. Strategy and tower-defence games benefit from the large space. The larger screen affords a larger battlefield view and by allowing players to control the zoom, they'll be able to order larger groups of tanks, see greater parts of the map, and have a more exact control of the battlefield. First-person shooters play better on the iPad because the

interface is simply less cluttered. The first-person shooter genre is also one of the more graphically intensive, and so far games that have made the transition look far better on the iPad. More important, they play better, too. Micromanagement is tricky without a keyboard and mouse, but the iPad's implementation of such games is superior to anything that consoles – portable or otherwise – have attempted.

The integrated A4 processor's straight-as-an-arrow processing speed also provides a boost for games. In Real Racing HD, for example, the photorealistic cars speed along in a lifelike fashion because the processor is churning out extra pep just for that app.

Our verdict

For consumer-friendly activities like viewing photos, listening to music and watching movies there may never have been a device that's simpler to use. The average consumer has absolutely no need to understand the underlying organisation and architecture of the iPad. They want the apps they install to just work. And the iPad gives them this, where their virus-laden home PC may not. For this reason, it's no surprise to us that a study by Chitika has found that a little more than half of all iPad users have a Windows computer at home. This is key because it suggests that, while a Mac user may feel that many of the features on an iPad are implemented already (and with more finesse) on their Mac, for many PC users, the iPad really is a breath of fresh air.

Not all is perfect in paradise, of course. To be truly useful, the iPad really needs a computer – Mac or Windows PC – to sync with. But we're convinced the model that Apple has laid out with the iPad is the future of home computing. We can't wait to see how it evolves over the next couple of years now that the software developers have it in their hands.



Bigger picture The iPad lets you see the whole web page, rather than just part of it

Does the iPad mean business?

iPad investigation

We determine if you can run a business on your iPad?

The iPad has many shortcomings that would make the very concept of running a business from it laughable. It doesn't run the key applications we use to conduct our business; syncing documents between your Mac and iPad requires iTunes as a middle man; it lacks sufficient hard drive space to store all the files you may need access to; you can't view many of the documents you may be sent via email – and you certainly won't be able to edit all of them; and the onscreen keyboard may be crippling if you are trying to create content using it.

However, its small size, touch interface, and impressive battery life add up to one of the best devices ever built for working on the move.

The most obvious difference between an iPad and a laptop is the way you interface with the device. Finger taps replace the mouse and cursor, and an onscreen keyboard is available for inputting text. The onscreen keyboard may be the first thing to convince you that the iPad is not a device for serious work. Compared to the iPhone's tiny onscreen keyboard, the iPad version is nearly touch-typeable, but it's still no match for a real QWERTY board when it comes to comfort and typing speed.

This doesn't have to be an issue. Many of the frustrations associated with the onscreen keyboard are eradicated by plugging in an external keyboard. The iPad supports external keyboards – officially it works with Bluetooth keyboards and Apple's iPad Keyboard Dock. Some other keyboards (including Apple's aluminium models) will give you an error message because they provide higher-power USB ports and therefore require more power than the iPad's dock-connector port will provide. This doesn't mean the keyboard won't work, however. Once you dismiss that error message, the keyboard functions as normal. Plugging in an external keyboard gives you access to the keys for screen brightness, media playback, volume level, and the arrow keys. Many of the standard Mac keyboard shortcuts also work: **⌘-C** for cut, **⌘-V** for paste, **⌘-Z** for undo, and so on.

Our advice is to skip the Apple Keyboard Dock and use Apple's standard Wireless Keyboard. While the iPad Keyboard Dock doesn't rely on a wireless connection, doesn't need batteries, has some useful iPad-specific keys, and can be attached to your computer to sync and power the iPad while you work, it's heavy, it's bulky, it wobbles, and you can't adjust the position of the iPad when you're using it.

Apple's Wireless Keyboard on the other hand is much more comfortable and portable, you'll just need to find a way to prop up the iPad when you are using it.

Even with the addition of an external keyboard the iPad will weigh less than your laptop, making the combination a desirable alternative to a laptop for lots of typing on the road. The iPad also doubles up as a handy display for Keynote presentations when visiting clients or making sales pitches.

Applications are key

Keynote is one Apple app that is already available on the iPad. Apple quickly launched iPad versions of its Pages word processor, Numbers spreadsheet, and Keynote presentation package that make up its iWork office suite for the Mac. We expect all will be priced at a reasonable £5.99 each.

While the list of features in the three apps doesn't rival that of Microsoft Office or even the Mac version of iWork, that's not a huge issue given the relatively simple tasks you're likely to undertake on an iPad. But Pages, Numbers, and Keynote all have one gigantic, overriding problem: Their support for document exchange with the non-iPad world is dismal. If you start a message in Mail, you have



Key strokes

The iPad's onscreen keyboard is no match for a tactile QWERTY keyboard, luckily you can use most Bluetooth keyboards with the iPad

no way to attach an iWork document. You also can't hook up your iPad to a computer via USB and simply drag documents back and forth. Instead, you must export documents from within iWork – as attachments, using iTunes as a conduit, or via the not-nearly-as-useful-as-it-sounds iWork.com.

All three apps claim to open Office documents, but some such documents appear garbled, and others produce only a cryptic error message. The programs strip out formatting that they don't understand; as a result, that formatting disappears if you try to move the file back to a desktop suite. And you might not even be able to do that: Pages can export Word files, but Numbers can't save in Excel format, and Keynote doesn't do PowerPoint.

These issues are so ugly for iWork, and for the iPad in general, that it's hard to imagine they won't get fixed. But users may not have to wait for Apple: iPad versions of the Quickoffice suite for handhelds and DataViz's similar Documents to Go are in the works. Both of those mobile productivity packages have long histories of handling documents that were created elsewhere with panache. And they might turn out to be better options than the current version of iWork, even if they aren't as elegant.

Security and the iPad

VeriSign has warned of security dangers complacent iPad users might face, particularly business users.

Phil D'Angio, director of business development at VeriSign, said: "Companies need to be aware that while they might be computing on the go and not using traditional devices they're still connecting to the web and the usual rules apply: use a password to protect your device and the online accounts you access from it."

Are VeriSign's fears founded? Not necessarily. The iPad offers no direct access to the file system. Yes, you can 'jailbreak' your iPad and get to the underlying file system, but short of some malware doing that for them, that's not something you'd find ordinary consumers doing.

The apps themselves are sandboxed from one another. Data from one application isn't generally

available to other applications. And application storage can't – again, in the absence of jailbreaking – be overwritten by another application.

In addition, Apple's stringent application vetting process should, at least in theory, police appropriate coding policies.

One highly controversial example of that policy in action is Apple's exclusion of all Flash content. Far from being a bad thing, this could be a bonus for the consumer. There's no shortage of malware in the wild that has used malicious Flash content as its launch vector.

Further security features are to be introduced with the iPhone OS 4.0 update this autumn. It looks as if Apple is giving users the ability to use a personal passphrase as an encryption key for data on the device for things like email and attachments. Apple is also implementing new



Safety box Apple's stringent application vetting process and the closed nature of the iPad should keep you safe from net nasties

APIs to allow developers to encrypt their data as well, so if someone gets hold of your iPhone or iPad, it will be that much harder for them to get to your data.

Sending email

For relatively unhurried email access the iPad is a useful tool. It is faster than booting up a laptop and diving into Outlook or Entourage, and the roomier display and the onscreen keyboard beat the iPhone for reading and writing messages that are more than a few paragraphs long.

Compared to the WiFi iPad, however, the iPhone may be the superior email tool due to being an always-on data device that provides access to email anywhere you have a signal, only the 3G iPad matches that feature. With the WiFi-only models, you'll need to hunt for a hotspot or invest in a portable router. If you require constant access to your email and the internet then the 3G iPad may fit the bill.

The iPad's Mail app has some limitations, however, many of these are set to change with the iPhone 4.0 software update coming to the iPad this autumn. At the moment Mail's file-viewers are limited. For example, if you receive a PDF attachment in an email you can use the iPad's Quick Look feature to open and read it, but beyond that, you can do nothing. You can't copy any text from it nor will Mail allow you to transfer the file to another application that could edit the file. The iPhone OS 4.0 update will allow you to open email attachments in a separate application.

Another constraint, set to change with the iPhone 4.0 update, is that while you can set up multiple email accounts, you can't currently merge them into one inbox. It is also possible to have only one Microsoft Exchange account on your iPad, for now.

Multitasking or not

Another area of the iPad set for improvement later this year is its multitasking capabilities. The iPad's inability to multitask is seen by many as a significant disadvantage. With few exceptions only one app runs at a time – a shocker if you're used to leaping between browser, word processor, spreadsheet, and email.

But lacking multitasking (for now) isn't necessarily a bad thing. It means that the iPad doesn't feel cumbersome. And actually, thanks to its fundamentally simple finger-driven interface, zippy performance, and true instant-on capability, the device often feels like a quicker, more efficient, less annoying alternative to a PC or Mac. It's a device that lets you get on with the task in hand without interruption.



Office apps Apple has launched iPad versions of Pages, Numbers and Keynote

Because the iPad doesn't multitask it delivers impressive speed and responsiveness. The iPad feels snappy because of the way the processor delivers performance when needed. The iPad's A4 chip runs like a high-speed train along a single track, it doesn't have to intelligently manage multiple applications and memory loads; it only has to provide the speed required for a single app.

In comparison, the typical Intel computer chip is geared for pumping out many simultaneous computations, such as those required for updating a spreadsheet or figuring out polygon locations in a game.

Limited multitasking abilities will come to the iPad this autumn with iPhone 4.0. Only certain tasks, such as audio play, VoIP and location tracking, will actually be able to run in the background while other apps are active. Another new feature will sidestep true multitasking by suspending an app when the user switches to another task, then later resuming that app right where you left off. We won't know until this autumn whether such restricted multitasking will have any effect on the iPad's speed.

Small screen

You may be put off the iPad as a business tool based on its small screen. At 9.7in it's clearly smaller than the minimum 13in screen you'll get with your Mac laptop – but it's not bad in comparison to many netbooks, some of which have tiny 7in screens. If you were thinking of getting a netbook, the couple of extra inches of screen space is a definite bonus.

And let's not forget that the iPad screen has IPS (In-Plane Switching) technology, so it looks good from any angle – meaning the display appears sharp and bright from the sides as well as from the front (perfect for sales pitches). The other bonus of the IPS technology is that it should be easier on the eyes than other types of LCD, according to Enderle Group analyst Rob Enderle. In addition, the iPad's 1024 x 768 colour LED-backlit LCD screen is bright and highly readable.

The other bonus with the iPad screen is that, like the iPhone screen, you can tilt it any which way. Many apps change mode from portrait to landscape; for example, in landscape mode, the Mail

app shows your mailbox along with a particular message highlighted, while in portrait mode you just see the message.

“The iPad won't replace your computer, but its simplicity often feels like a quicker and more efficient alternative”

The real deal-breaker is battery life. Apple claims an impressive 10 hours of charge (compared to 8-9 hours on the MacBook Pro, 7 hours on the MacBook, and just 5 hours on the MacBook Air). When we tested the iPad battery we found that we could get far more than 10 hours out of it – and that was while playing video. In practical terms, this means that whether you're at home or on the road, you can just charge your iPad overnight and it'll be good for a full day's work or play.

Our verdict

The iPad isn't going to replace your computer. It tells you that yourself the first time you turn it on, when it asks to be connected via USB cable to a PC or a Mac running iTunes. Even if you don't want to buy music, movies, and apps on a computer and transfer them to the iPad, you'll want to sync from time to time, especially since that's the only way to back up an iPad.

So the question isn't whether you want an iPad instead of a computer – it's whether you want both. If you frequently have to work on the move, need a device to carry around for sales presentations, or just want to give your back a break from hefting around a heavy laptop, the iPad is a great solution allowing you to leave your Mac behind. **MW**



Fast reply Using Mail on the iPad is far faster than booting up a laptop and opening Entourage or Mail



Good view The iPad screen offers IPS technology so the display looks sharp and bright from all angles – perfect for presentations



Brighton
12-13 Brighton Place
The Lanes, BN1 1HJ

Hove
255 Old Shoreham Rd
Hove, BN3 7ED

Bournemouth
78 Old Christchurch Rd
Bournemouth, BH1 1LR

Guildford
27 Friary Street
Guildford, GU1 4EH

Chichester
51a South Street
Chichester, PO19 1DS

solutions inc.

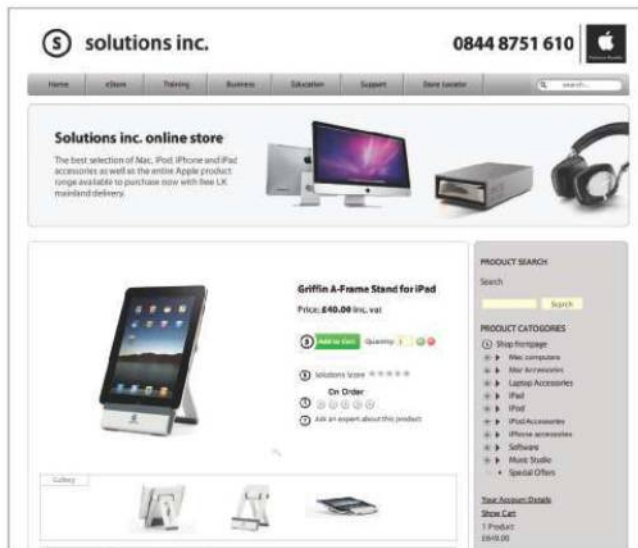
0844 8751 610

www.solutions-inc.co.uk

Free UK
Mainland
delivery

The ultimate on-line iPad accessory store

The best selection of iPad accessories, including a huge range of headphones.
All our products are available to audition in-store or buy online.



www.solutions-inc.co.uk/store

- Wide selection of Mac, iPod, iPhone and iPad accessories
- Browse the entire Apple product range
- Easy to use interface
- Detailed information and multiple images for each product
- New customer and staff review section
- Video reviews for many products
- Free UK Mainland delivery on all products
- 3D Secure and GeoTrust for safe online transactions
- Sign up to our newsletter to win £100 of store vouchers



Griffin are a brand to trust for high quality, durable accessories. Their power-solutions for iPhone have always been amongst Solutions Inc's bestsellers, and their iPad accessories demonstrate their ongoing dedication to quality design: at once functional and stylish.



Powerjolt for iPad
Charge your iPad or iPhone in the car.
£17.00 inc.vat



A-Frame
The A-Frame by Griffin is a study stand for iPad allowing display in vertical and horizontal orientation with adjustable height.
£40.00 inc.vat



Elan Passport for iPad
This understated, slim and stylish folio case for iPad features handy card slots on the inside and a soft, microsuede lining. Quality protection for iPad.
£35.00 inc.vat



Guildford
27 Friary Street, Guildford,
Surrey, GU1 4EH. 01483 57664
www.solutions-inc.co.uk/Guildford



Tucano are market leaders in their laptop bags and cases, and their MacBook sleeves are Solutions inc. bestsellers. Tucano's dedication to ongoing research and quality control gives assurance to their customer that with Tucano, they're buying a bag for life.



Tucano Softskin

This lightweight, well-padded velcro protective case for iPad ensures the safety of your iPad, protecting it from scratches as well as knocks and bumps. With the Tucano Softskin, you really can take your iPad anywhere.

£29.00 inc.vat



Tucano Elements

The iPad version of our most popular sleeves for MacBook and MacBook Pro. High Quality neoprene material offers excellent protection for iPad. Just slip it in, zip it up and your iPad is now safe to be carried in any bag or backpack without you having to worry about it getting scratched or damaged.

£29.00 inc.vat



New St. Albans retail store coming this summer

11 The Maltings Shopping Centre
St. Albans,
Hertfordshire.



Cygnett are Australia's premier designer of iPod, iPhone and now iPad accessories. In business since the 70s, Cygnett have always prided themselves on producing high-quality electronics and electronics accessories. Their range of products today is made up of superior affordable accessories that compliment and embellish your favourite electronic devices.



Cygnett Lavish
Microsuède-lined book-style case for iPad with reinforced protective screen cover and secure magnetic clasp. Stylish, understated and durable protection for iPad.
£35.00 inc.vat



Glam
Glossy book-style case for iPad. Design allows for enhanced privacy when using iPad in public places. Reinforced screen cover also provides protection from knocks, bumps and scratches.
£35.00 inc.vat

Also available...

We also stock a wide range of Cygnett iPod and iPhone accessories, including power solutions, protective cases and earphones. Visit our brand new online store at www.solutions-inc.co.uk/store and read staff and customer reviews of all our Cygnett products





Bournemouth

78 Old Christchurch Rd, Bournemouth,
Dorset, BH1 1LR. 01202 559776
www.solutions-inc.co.uk/bournemouth



INCIPIO®

Incipio was founded on the premise that quality and value should go hand in hand. Incipio's primary focus is to deliver exceptional products through superior engineering. The company's credo, "The Art of Protection", signifies the delicate balance of style and creativity while delivering unparalleled protection and function.



Destroyer OverKill

Premium protection for iPad. This stylish black and brushed titanium hard case fits securely around the edge and back of the iPad, leaving full access to screen and all buttons.

£99.00 inc.vat



Feather

Ultra-light, ultra-strong polymer protective case. Completely unobtrusive at just 1mm thick, providing full access to all buttons. Comes in choice of black, frost, magenta or charcoal colours.

£30.00 inc.vat



Kickstand

Innovative tri-fold design allows you to position your iPad for hands-free movie-watching whilst simultaneously offering full, durable protection for your iPad. Available in white or black.

£25.00 inc.vat



Silicrylic

Innovative 2-part carry case consisting of a high-quality silicone rubber interior wrapped in a hard-wearing shock-resistant polycarbonate plastic exterior. All iPad features accessible while case is on. Available in Black, Lime and White

£45.00 inc.vat



Chichester

51a South Street, Chichester,
W. Sussex, PO19 1DS. 01243 780493
www.solutions-inc.co.uk/chichester



be.ez

French designers of electronics accessories, Be.ez produce some of the most striking designs available today. Dress up your iPad and make a statement.

LA Robe Allure

These Low-Resilience Polyurethane cases lined with a soft-fleece fabric perfectly cushions and protects your iPad from knocks, bumps and scratches. Designed to fit snugly with no rattling around, these striking cases are available in two vertical-striped styles. Choose from 'coloured stripes' or the slightly more understated 'moka' £25.00 inc.vat



Colored Stripes



Moka

Headphones

We pride ourselves in our selection of headphones, seeking out the best that money can buy in each price bracket as well as providing a wide range of stylish alternatives to conventional headphones. You can browse and audition our entire range in-store, or read reviews by staff and customers on our new online store at www.solutions-inc.co.uk/store.



Jivo Elements

Excellent quality in-ear headphones carved from rosewood.
£21.00 inc. vat



JVC Gummy

Excellent value for money in-ear headphones in black or white
£21.00 inc. vat



Jivo Jellies

Stylish in-ear headphones available in strawberry or vanilla flavour
£21.00 inc. vat



Jivo Sound-isolating

Sound-isolating in-ear headphones available in black or white
£21.00 inc. vat



Cygnett Platinum

Comfortable in-ear headphones with Mic for iPhone
£21.00 inc. vat



Sennheiser PMX80

Wrap-around in-ear sports headphones
£36.00 inc. vat



Sennheiser OMX80 sport

Ergonomic, secure and comfortable sports headphones
£36.00 inc. vat



Sennheiser CX380 sport II

Sound-isolating in-ear sports headphones
£51.00 inc. vat



Sony Active Series neck band

Comfortable, high-quality sports headphones from Sony
£35.00 inc. vat



Sony Active Series over ear

In-ear headphones with ear-hook design for sports use.
£31.00 inc. vat

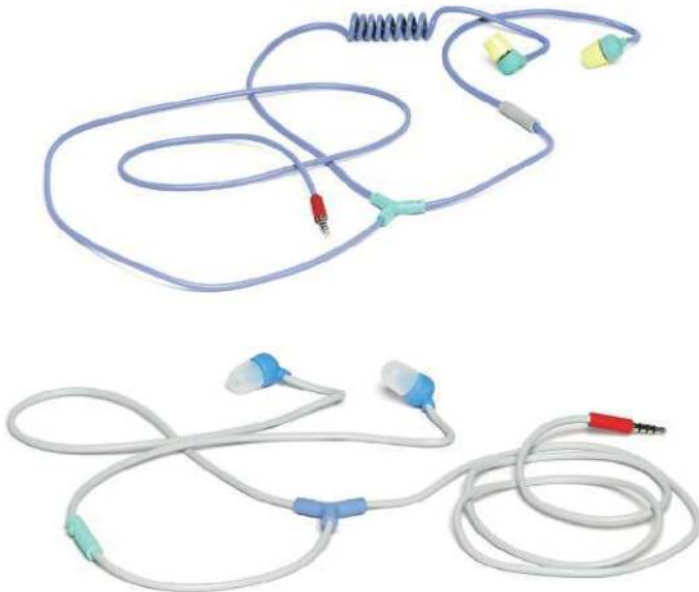
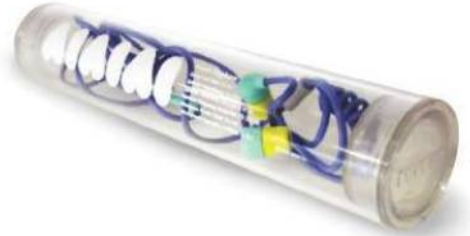


Hove
255 Old Shoreham Rd, Hove,
E. Sussex, BN3 7ED. 01273 200825
www.solutions-inc.co.uk/hove



AIAIAI

Here at solutions we're huge fans of high-quality audio peripherals, and even bigger fans of good design. That's why we love AIAIAI headphones. This Copenhagen collective of artists, musicians and designers are dedicated to the creation of earphones, headphones and headsets that make a genuine statement. Test drive a pair in-store today, and see why we fell in love with AIAIAI headphones.



Y-Com Headset

Superior audio quality and tangle-free design, made for iPhone with microphone and remote control. Comes complete with comprehensive set of earbud fittings. Available in Blue and Grey
£55.00 inc.vat



Swirl

Stunning quality in-ear over-ear hook headphones with industrial tangle-free design and interchangeable earpieces to suit every ear size and material preference. Available in Green or black.
£49.00 inc.vat



Tracks

Paying homage to classic Walkman design of the 80s, the minimalistically stylish Tracks headphones FROM AIAIAI boast a crystal clear and rich sound quality with excellent separation between mids, lows and highs. Available in creme or black, with interchangeable coloured ear pads and sliders. Tracks also feature a microphone and remote for use with iPhone. Carrying case included.
£59.00 inc.vat





Brighton

12-13 Brighton Place, Brighton,
E. Sussex, BN1 1HJ. 01273 730236
www.solutions-inc.co.uk/brighton



B&W p5 Headphones

The stunning P5 headphones from Bowers & Wilkins blends natural, highly-detailed audio quality and excellent noise-isolation with a comfortable and stylish on-ear design. From the moment you first pick them up, their high-quality build is immediately apparent, the earpads are crafted from the highest quality New Zealand Sheep's leather and are attached magnetically for easy replacement. When you hear them, you can't deny that the Bowers & Wilkins P5 headphones represent the ultimate in luxurious personal audio. Includes remote and mic for iPhone and a carry pouch.

£249.00 inc. vat



Sennheiser CX300 II

Our best selling in-ear headphones
£41.00 inc. vat



Macally HifiTune

Premium-quality headphones with
iPhone controls and mic
£47.00 inc. vat



Etymotic hf5 headset

Award-winning noise-isolation
earphones
£92.00 inc. vat
w/mic for iPhone £103.00 inc. vat



Sennheiser HD238

Superior quality headphones
£62.00 inc. vat



Sennheiser HD428

High-output neodymium magnets for
a stereo sound and powerful bass
£45.00 inc. vat



Sennheiser HD448

Closed, circumaural design with
excellent, lifelike sound experience
£59.00 inc. vat



Griffin stereo connect

Connect your iPad or iPhone or
iPod to a stereo. Coiled cable.
£13.00 inc. vat



Griffin auxiliary cable

Connect your iPad, iPhone or iPod
to any stereo with a 3.5mm jack.
£13.00 inc. vat



Scosche component cable

Connect your iPad to any HD TV
with component connectivity.
£36.00 inc. vat



Skullcandy Lowrider

Collapsible, boldly styled on-ear
headphones in a choice of
colours. Choose from Black,
black/Gold, Green/Black or Red.
£33.00 inc. vat



Skullcandy HESH

Comfortable high-intensity
over-ear DJ headphones with
1.5m cable. Available in stark
grey/white or black/white
design. Comes complete with
travel bag for safe storage
£40.00 inc. vat

Skullcandy ASYM

Comfortable asymmetrical
earphone, with cable positioned
to hook over the ear. Available
in black/Green, white and Black/
Red with iPhone compatible
microphone and remote.

ASYM £33.00 inc. vat
ASYM w/mic £37.00 inc. vat



On-ear headphones. Choice of colours
On-ear headphones. Choice of colours
On-ear headphones. Choice of colours

WeSC Bongo

£59.00 inc. vat

Great-sounding, stylish and comfortable on-ear
headphones. Available in a choice of colours

WeSC Pickup

£39.00 inc. vat

Quality sound with excellent build quality and
comfort. Available in white or black

WeSC Oboe

£39.00 inc. vat

Comfortable and stylish over-ear headphones.
Available in white, black, orange or green



Brighton

12-13 Brighton Place
The Lanes, BN1 1HJ

Hove

255 Old Shoreham Rd
Hove, BN3 7ED

Bournemouth

78 Old Christchurch Rd
Bournemouth, BH1 1LR

Guildford

27 Friary Street
Guildford, GU1 4EH

Chichester

51a South Street
Chichester, PO19 1DS

St. Albans

11 The maltings Shopping Centre
St. Albans, Hertfordshire.



solutions inc.

0844 8751 610

www.solutions-inc.co.uk

Free UK
Mainland
delivery

BOSE®

When it comes to high-quality consumer audio, Bose have lead the way for many years. With impeccable design, high-quality build and sound quality to match, Bose, for many, represent the ultimate in audio home entertainment solutions.

QuietComfort 15

The QuietComfort 15 around-ear headphones make use of Bose's legendary noise-reduction technology to significantly reduce more noise across the full spectrum of human hearing. Advanced electronics now use microphones both inside and outside each ear cup to sense and reduce more of the sounds around you. They also feature proprietary signal processing and audio reproduction technology for high quality sound reproduction, including deep low notes, from small, lightweight ear cups: all made clearer by advanced noise reduction powered by a single AAA battery.

QuietComfort 15

£279.00 inc. vat



QuietComfort 3

QuietComfort 3 on-ear headphones feature Bose Acoustic Noise Cancelling technology that electronically identifies, then dramatically reduces the noise around you, while preserving the audio or tranquility you desire. With ambient noise reduced, the high quality sound these headphones provide becomes even more apparent, and the soft-cushioned, on-ear fit lets you listen comfortably for hours. There's no need to change batteries, either, as the QuietComfort 3s are powered by a built-in lithium battery that lasts for up to 25 hours on a full charge.

QuietComfort 3

£299.00 inc. vat

On-ear headphones

Delivering clean, rich sound in a small, light, on-ear design, the Bose on-ear headphones are a real treat for the ears. You'll hear deep lows, clear mids, sweet highs and distinct separation of instruments, exposing elements you may have never heard before even in your favourite tracks. Padded memory foam earcups conform gently to the shape of your ears and are designed to rotate from front-to-back and top-to-bottom for an enhanced fit that reduces pressure points, ensuring maximum comfort even for prolonged use.

On-ear headphones

£120.00 inc. vat

On-ear headphones with mic

£149.00 inc. vat



Around-ear headphones

Bose around-ear headphones answer the call for smooth, high-performance sound in a very lightweight package. Bose's acoustic equalisation techniques deliver the rich nuances of your music that conventional headphones often lose. You hear the intricate notes of an acoustic guitar, the full range of vocals and even the beat of a drum with greater clarity and impact. Their ergonomic design keeps them remarkably comfortable and lightweight, even as proprietary Bose headphone technology reveals the rich acoustical landscape of your music.

Around-ear headphones

£79.00 inc. vat

In-ear headphones

Featuring proprietary audio reproduction technology, the Bose in-ear headphones deliver impressive low frequencies from small headphones without artificial bass boost. You enjoy tonally balanced and clear sound for all your mobile music. Also, unlike conventional earbuds, the Bose in-ear headphones feature silicone-tipped headphones designed to rest easily in the outer bowl of the ear, not the pressure-sensitive ear canal. Available with and without microphone for use with iPhone.

In ear headphones

£79.00 inc. vat

In ear headphones with mic

£99.00 inc. vat



Google may dominate the internet the way Microsoft once dominated the desktop. But that doesn't mean you can't take what's good and useful from it – and leave the rest behind.

Calendars and Contacts in the Cloud

Use Google to sync the data on your Macs and iPhone



"Before changing your sync settings, make sure you back up your contact and calendar data"

true of current desktop Mac software. You can sync your Google Contacts and Calendars with Address Book and iCal, respectively, but not by using Exchange ActiveSync. As a result, syncing isn't instantaneous or automatic. Likewise, Entourage can tie into Mac OS X's Sync Services to achieve syncing with Google Contacts and Calendars, but only in a roundabout way.

Nevertheless, you can replicate most of what MobileMe offers for contact and calendar syncing by using Google's services and Snow Leopard. However, we do want to mention a few qualifications up front. First, the process we describe here is for syncing a single person's data among multiple devices, not for syncing information among multiple users. Second, on an iPhone or iPod touch, this procedure uses Exchange ActiveSync, but the iPhone OS currently supports only one Exchange account per device. So, if you already use Exchange for another purpose (such as connecting to your work

email account), this method won't work. And third, although most contact and calendar data syncs between Mac applications and Google just fine, a few items (including Address Book groups and the floating time zone in iCal) do not.

Preliminary Steps

Before changing your sync settings, you should perform a few preliminary steps.

First, be sure to back up your contact and calendar data so that if anything goes wrong, you can restore it to its previous state. Use File > Export > Address Book Archive or File > Export > iCal Archive for Address Book and iCal, respectively. For Entourage, select File > Export, select Items To An Entourage Archive and then All Items.

In the Archive The Following Item Types section, select the Local Contacts and Local Calendar Events items and click the right arrow. Leave the No, Keep The Items In Entourage After They Are Archived option selected and click the right arrow again. If you're using an iPhone or iPod touch, connect it to your Mac using its USB cable or dock and allow it to sync before proceeding. If you're using Google Apps (for a custom domain name), make sure you've enabled Google Sync for your domain by following Google's instructions.

If you have two or more Macs, or an iPhone or iPod touch, you'll undoubtedly want to keep your contacts and calendars on all your devices in sync. One way to do so is to use Apple's MobileMe service (£59 a year for individuals; £89 for the five-user Family Pack; www.apple.com/mobileme).

But what if you don't want to pay for MobileMe, or if you simply prefer using the free Google Contacts and Google Calendar (both accessible from any Gmail account)? Google uses Exchange ActiveSync – which provides over-the-air push email, contact, and calendar data, just as MobileMe does – to let your iPhone or iPod touch connect to your Gmail account (either with a gmail.com address, or an address at your own domain via Google Apps). Meanwhile, Snow Leopard contains native support for Exchange 2007 servers in Mail, Address Book, and iCal, and Microsoft Entourage also supports Exchange accounts.

Although the iPhone and iPod touch work well with Google's Exchange services, the same isn't



➔ page 65

Address Book To sync Address Book with Google Contacts, select Synchronize With Google and enter your Gmail credentials

Google Docs storage

There's a new option when you log in to Google Docs: an Upload button, which allows you to upload files for online storage, a feature MobileMe (£59 a year) and Dropbox (up to £19.99 a year) also provide. But how does it compare to those services?

The good

When you upload a document to Google Docs, you can choose to convert it from one format to another. Supported formats include HTML, plain text, and Microsoft Word, PowerPoint, and Excel. Neither Dropbox nor MobileMe offers file conversion.

Google Docs also allows you to share folders containing any mix of files. Dropbox lets you share folders, but only files in its Public folder can be shared. (Dropbox also lets you view and share folders of photos.) MobileMe lets you share a link to any file, but only allows

public access to a Public folder, which you have the option of password-protecting.

You're limited to 1GB of Google Docs storage altogether, with an individual file upload limit of 250MB. Google lets you purchase more storage, but treats it as a combined overflow for three services: Docs, Picasa photo albums (above 1GB), and Gmail (above roughly 7GB). Storage is allocated to whichever of these services go over the included amounts. Fees start at \$5 (£3) per year for 20GB of additional storage and \$20 (£13) per year for an 80GB add-on. Plans can be had at various increments, to as high as 16TB for \$4,096 (£2,673) per year.

Dropbox and MobileMe offer up to 100GB and 80GB storage respectively, at higher prices.

Google doesn't restrict bandwidth, instead relying on the squishy statement that it "includes plenty of bandwidth for ordinary

use." MobileMe includes tiered bandwidth based on the amount of storage (starting at 200GB per month for a basic account that comes with 20GB of storage), while Dropbox monitors for "unusual amounts of bandwidth usage" for publicly linked files.

The not-so-good

In testing, we received some error messages saying that the Google Docs service was having trouble communicating with the server. Restarting the browser solved the problem.

More seriously, unlike Dropbox and iDisk in MobileMe (which let you access your files via web, iPhone, and desktop interfaces), Google offers web access only. But Google does provide a programming interface that developers could use to provide access to the Google upload space from within apps, or could mount as a volume in the Finder.

Scanning is child's play

ScanSnap
Color Image Scanner

Scan and file all your precious documents such as reports, invoices and business cards, or simply scan and email the lovely hand-painted card to Grandma. With ScanSnap, scanning is more than easy. It is efficient and worry-free. Plus, thanks to "One-button operation" which can be set up for creating searchable PDF files, ScanSnap instantly simplifies your life for now and for the long-run. Increase your personal efficiency and save your time for the other important and fun things in life.

S1500 bundled with: Adobe® Acrobat® 9.0 Standard, ScanSnap Manager, ScanSnap Organizer, Card Minder, ScanSnap Quick Menu, A3 Stitching
S1500M bundled with: Adobe® Acrobat® 8.0 Professional, ScanSnap Manager, CardIRIS, ScanSnap Quick Menu, A3 Stitching

For more information please visit
<http://emea.fujitsu.com/scansnap>



FUJITSU

All names, manufacturer names, brand and product designations are subject to special trademark rights and are manufacturer's trademarks and/or registered brands of their respective owners. All indications are non-binding. Technical data is subject to change without prior notification.



Needs NoteBook

Stickies. Scraps of paper. Web clippings. Meeting notes. Reminders. Take control of it all with Circus Ponies NoteBook. Get organised using a familiar notebook interface of pages, tabs, and sections. "Clip" web research,

e-mails and other content to your Notebooks for handy reference. Never miss a detail with voice-annotated notes you play back on your iPod. Diagram and sketch when words won't convey your thoughts. Track and sync your tasks



Has NoteBook

to iCal and your phone. Find anything instantly with NoteBook's patented Multidex™. Share your Notebooks as PDFs or websites. And much more. NoteBook has everything you need to get organised.

"Download NoteBook right now and try it for yourself, FREE for 30 days"
www.circusponies.com/trialmwuk



CIRCUS PONIES™
NoteBook



Apple Store

amazon.com

PC World

© 2009 Circus Ponies Software, Inc. All rights reserved. Circus Ponies, NoteBook, the NoteBook logo, and Multidex are trademarks of Circus Ponies Software, Inc. All other trademarks are the property of their respective owners.

www.WorldMags.net & www.aDowns.net

MANAGED DEDICATED SERVERS FOR YOUR BUSINESS!

Now accelerate your online
business with
UK's fastest
Dedicated Servers



SERVER HARDWARE

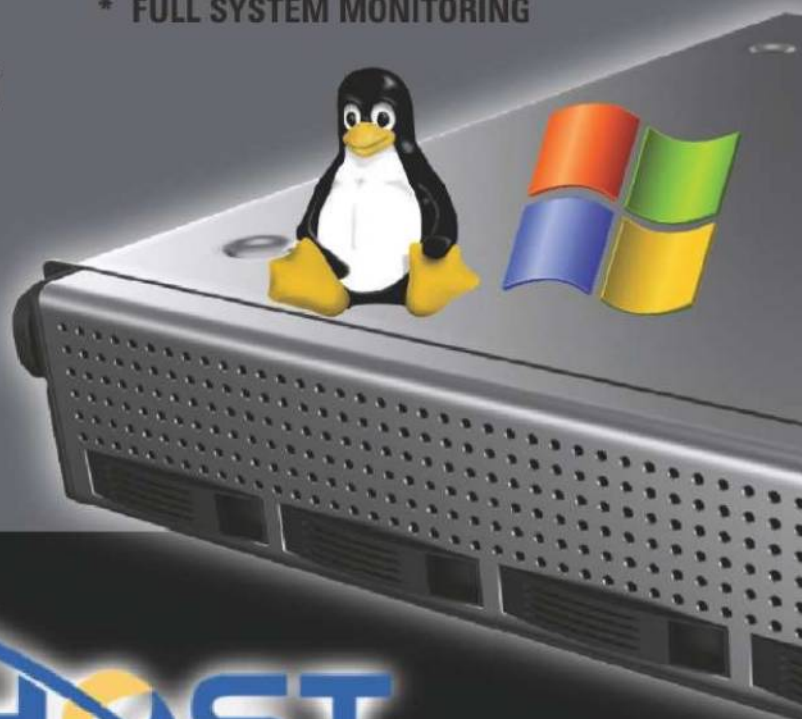
- * HIGH QUALITY DELL SERVER HARDWARE
- * CUSTOMIZABLE HARDWARE CONFIGURATIONS
- * PEAK PERFORMANCE AND RELIABILITY

INFRASTRUCTURE & NETWORK

- * SECURE UK DATACENTER
- * SUPER-RESILIENT NETWORK ARCHITECTURE
- * 100% SERVICE LEVEL UPTIME GUARANTEE

SUPPORT & MANAGEMENT

- * FULLY MANAGED SERVERS
- * 24X7 DEDICATED SUPPORT TEAM
- * FULL SYSTEM MONITORING



15%
DISCOUNT CODE
MACWORLD

eUKHOST

Visit us @ www.eUKhost.com | Email - sales@eukhost.com

Call us FREE on 0808-262-0255



iCal and Google Calendar Google calendars can currently sync with iCal but not the other way around, however iCal can be successfully imported

Finally, if you're a MobileMe user, we suggest turning off MobileMe syncing for contact and calendar data, because that will simplify setup and troubleshooting. To do so on your Mac, open the MobileMe pane in System Preferences, click the Sync tab, and deselect the checkboxes for Contacts, Calendars, or both.

On an iPhone or iPod touch, go to Settings > Mail, Contacts, Calendars, tap your MobileMe account, and turn Contacts, Calendars, or both, off. When you do so, your device asks whether you want to keep or delete the existing contacts or calendars on your device. If you're certain that the data on your Mac is correct, up-to-date, and backed up, you can reduce the chance of duplicates by tapping Delete From My iPhone.

Sync Contacts with Address Book

To sync Address Book with Google Contacts' My Contacts list, open Address Book's preferences, click Accounts, select On My Mac in the Accounts list on the left, and then click the Account Information tab. Select the Synchronize With Google checkbox,



Entourage Although it can't sync directly, Microsoft Entourage can tie into Mac OS X's Sync Services to keep contacts and calendars in sync with your Mac's Address Book and iCal

and then click Configure. In the dialog box that appears, enter your Gmail address and then your password in the Password field (don't worry if you see a warning that Address Book can't verify the identity of the server).

Next, make sure the Sync menu (an icon with two arrows arranged in a circle) appears in your Mac's menu bar. If not, open the MobileMe pane in System Preferences, click the Sync tab, and select the Show Status In Menu Bar checkbox at the bottom. Choose Sync Now from the Sync menu. If the Conflict Resolver window appears, click Review Now, decide which version of each contact to use, and then click Sync Now.

Mac OS X should now sync changes once per hour, although you can use the Sync Now command to sync manually. (For more frequent syncing, try the \$25 (£16) Spanning Sync (www.spanningsync.com), which syncs every time you modify a contact or as often as every 10 minutes.) Repeat this procedure with each Mac you want to sync.

Sync Calendars with iCal

To sync iCal with Google Calendar, open iCal, choose iCal > Preferences, click on Accounts, and click the plus (+) button. Choose Google from the Account Type pop-up menu, and enter your full email address (whether ending in @gmail.com or your custom domain) and your password, and click on Create. Your primary Google calendar then appears in iCal. To sync additional Google calendars, click the Delegation tab in the Preferences window and select the Show checkbox for one or more calendars.

Note that this procedure syncs existing Google calendars with iCal, but not the other way around. To move your existing iCal data into Google Calendar, find one of your calendars in Google on the left side of the screen, click the Settings button beneath it, click Import Calendar next to the Create New Calendar button, and then in the dialog box that appears, click Browse. Navigate to the iCal backup file you created earlier, and select it. In the Import

Calendar dialog box, select the calendar to which you'd like to add the events (if you have more than one) from the Calendar pop-up menu and then click the Import button.

By default, iCal syncs with Google Calendar every 15 minutes, but you can change the interval if you prefer. To do so, click on the Account Information tab in the Preferences window and choose a new value from the Refresh Calendars pop-up menu. As with contacts, repeat this procedure on each of your Macs.

Sync Contacts and Calendars with Entourage

If you use Entourage to store your contacts and calendars, you can't sync directly with Google Contacts and Calendars, but you can sync indirectly.

First, follow the procedure for setting up syncing with Address Book or iCal and Google Contacts or Calendars (even if iCal or your OS X Address Book is empty). Then, in Entourage, choose Entourage > Preferences, select Sync Services under General Preferences in the list on the left, select Synchronize Contacts With Address Book And MobileMe and/or Synchronize Events And Tasks With iCal And MobileMe, and then click OK. In most cases, if you use only Entourage for contacts and calendars, then choose Delete Information From Macintosh Address Book, iCal, And MobileMe in the dialog box that appears.



iPhone or iPod touch Set up an Exchange account and turn on Calendars and Contacts to sync those items with Google

Sync Contacts and Calendars with an iPhone or iPod touch

To sync your contacts and calendars, you must be using iPhone OS 3.0 or later. Go to Settings > Mail, Contacts, Calendars and tap Add Account at the bottom of the Accounts list. Tap Microsoft Exchange, and enter the full email address associated with your Google account and your password; leave Domain blank. Tap Next. If an Unable To Verify Certificate message appears, tap Accept. In the Server field, enter m.google.com, and tap Next again. Make sure Contacts and Calendars are turned on and tap Done. When prompted to choose how to handle existing data, tap Delete. Synchronisation begins in a moment, and everything happens wirelessly.

Why use Google Docs?

The online suite is good for collaboration – but not much else

When you need to collaborate with colleagues on word processing documents, spreadsheets, or presentations, Google Docs (docs.google.com) is an excellent choice. But a surprising number of people have suggested that Google Docs could also replace Microsoft Office or iWork as your everyday desktop productivity app. After using Google's online suite extensively, we just don't think that's the case; it simply has too many shortcomings. These five are the most serious.

It's in a browser

Google Docs is not a suite of applications. It's a set of web pages. As such, its abilities are limited by the capabilities of your browser.

Want to open two documents side by side? You could open two browser windows, but then you'd have two instances of your browser environment, rather than two document windows.

If you're browsing in one tab and working in another, you can't use  to switch from one app (your browser) to another (your word processor); you have to navigate your browser's tabs instead. Playing a Flash game in one tab while working on a presentation in another? Better hope the Flash doesn't crash and bring down your documents with it.

“Google Docs is a set of web pages. As such its abilities are limited by the capabilities of your browser”



User interface

Open a Google Docs app and immediately you'll notice it's not a real OS X application. It looks and feels completely different.

Take the menus. Menu headings on the menu bar appear in a plain-text font, making them hard to distinguish from the background. Clicking on one of the headings opens a menu – but, again, its text can be indistinguishable from what's behind it. The menu's lack of a drop-shadow doesn't help.

Below the menu bar, a row of icons appears in a toolbar. But you can't customise the toolbar, nor can you move or resize it. Also, there aren't any floating palettes; everything is done via the menus, the toolbar, or a contextual menu that appears when you Control-click.

Creating a chart in the spreadsheet app requires picking a chart type from a pop-up box, then filling out a tedious form. If a formula in Spreadsheet is too long, it wraps, making it harder to edit.

In short, even the worst OS X application has a better user interface than Google Docs.

Feature set

Compared with any of their desktop alternatives, Google Docs apps lack a number of features.

Want to create a multi-column word-processing document? Sorry, it's single-column only. Want to do a mail merge? Again, not possible.

In Spreadsheet, want to turn off grid lines when printing? Can't do it. How about creating a big spreadsheet? Technically, you can, but you have to manually add rows and columns, because the initial worksheet extends only to column T and row 100. And as long as you like Courier, Georgia, Normal,

 page 68

Google Wave explained

Google Wave (wave.google.com) is one of the most hyped but least understood services Google has ever launched. Part of the problem is that it has no direct parallel to any other product. As such, it's hard to explain – but let's try.

What Wave is

Wave enables you and your collaborators to build documents – waves – from conversations. Multiple users can edit and chat inside waves at the same time. Wave offers live typing, so you can see your collaborators' input in real time, keystroke by keystroke. You can add images, web links, video clips, and polls to waves; and with Wave extensions, you'll soon be able to incorporate all kinds of other interactive content.

Google describes Wave as “what email would look like if it were invented today,” in the world of instant messaging, wikis, and online forums. But Wave is more akin to Google Docs than it is to Gmail. How many

times have you developed a document by sending it back and forth through email? Wave seeks to do away with that, by providing a single copy that everyone can edit and discuss.

How to use Wave

You need an invitation to create an account in the Google Wave preview; you can request one at the Wave home page (wave.google.com) or you can ask a Wave-using associate to invite you. (Mac users can also use Waveboard (getwaveboard.com), a desktop client that includes Growl notifications and an iPhone app.)

When you sign into Wave, you'll see an inbox, folders, and contacts on the left; unread waves in the middle; and the editing pane on the right.

To start a wave, you click on the New Wave button. You can then enter a title and initial message, and add collaborators from your Contacts list; you can give each person full read-write or read-only privileges.

Each wave is made up of messages,

called blips. When you create a new wave, you start by editing its root blip. Anyone else with editing rights can change that blip or add blips below it or inside it.

Blips don't have to appear sequentially; you can also embed one inside another. This way, you can comment on specific bits of content.

To see how a wave has changed over time, you can use the playback feature to go back and forward in a revision's timeline. You can roll back edits (by clicking a Restore button), and you can organise waves by using folders and tags.

The bottom line

Google Wave represents an exciting new model for real-time collaboration. It could have all kinds of uses for group chats, collaborative meeting notes, and project management, for example.

But it's not yet ready for production use, it can be unstable and slow in some browsers. But we can't wait to see what it becomes.

30 DAY **NO RISK**
MONEY BACK GUARANTEE

Power up your business with a Virtual Private Server

With more capacity
for your client sites,
our new **Virtual Private
Servers** can reduce your
admin overheads - and your
costs. There's nothing virtual
about the power of our VPS range.

**BEST SPEC
IN THE UK ***

**SUPER-FAST
PROCESSORS**
**UNLIMITED
BANDWIDTH**
WINDOWS or LINUX

**FROM
£19.99
A MONTH**



Powered by

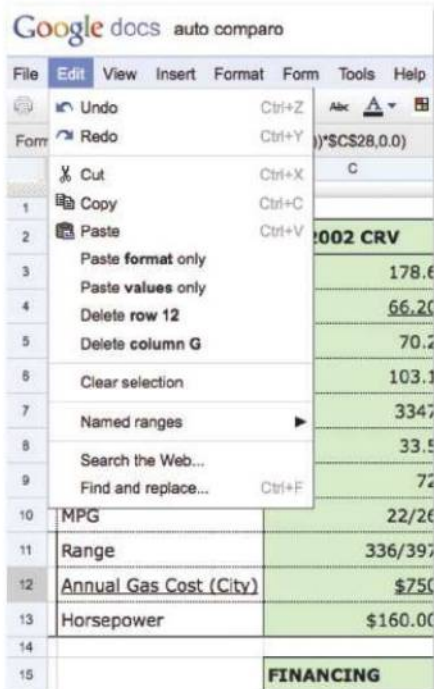


**CALL US NOW ON
0800 0317 800**

<http://www.webfusion.co.uk/virtual-private-servers/macw>

* As of December 2009

www.WorldMags.net & www.aDowns.net



Bad menus Because Google Docs menus use a plain-text font and have no drop shadow, they can be hard to distinguish from the document in the background

Trebuchet, or Verdana, you'll be thrilled with the font choices in Google Docs' Spreadsheet app.

Want to create a presentation? There are only 15 themes, and there's no support for animation or builds (layering elements onto your slide over time). Also, you can't create transitions between slides.

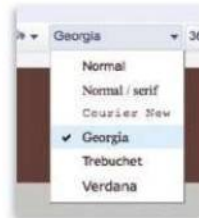
Offline use

To work with your Google documents offline, you need the Safari extension Google Gears. As of this writing, Google Gears doesn't support OS X 10.6. (Google's own Chrome beta for Mac doesn't yet support Gears, either.) If you're using OS X 10.5 and have the Google Gears extension installed, you can view (but not edit) presentations and spreadsheets; however, you can edit word processing documents.

Given the hassles of working offline, you could instead download a copy of the file (File > Download), edit it offline, and then upload it when you're back online. Just make sure you don't use any features (such as multiple columns) that aren't supported by Google Docs.

Printing

If you choose Print in either Presentation or Spreadsheet, a near-useless dialog box appears. Click Print there, and a PDF file is downloaded to your Mac. In Document, it's even worse; there's no dialog box at all before the PDF file appears.



Few fonts

Compared with a real OS X app, Google's Spreadsheet has a meagre type menu

Also, printing in Google Docs isn't WYSIWYG; it's more like WYSIWYMG – what you see is somewhat like what you might get. Google Docs doesn't have any page view modes. Until you print, you don't know how the document will look.

The bottom line

Google Docs is great if you have a group of people who all need to work on files either at the same time or repeatedly over a period of time. With centralised storage, change tracking, and easy sharing abilities, this is a niche that Google Docs fills perfectly.

But for virtually every other need, we disagree with people who say it can replace Microsoft Office or iWork as an everyday productivity tool. Even a program as simple as TextEdit has features you won't find in Google Docs' word processor. There's really no comparison between either Office or iWork and the Google Docs programs. You get more features, a better interface, and superior integration with the OS by using a native application. **MW**

Google's digital switchboard

Google Voice manages incoming phone calls the way Gmail manages email

Google Voice does for phone calls, voicemail, and text messages what Google has already done for email and chat. Using Google Voice is relatively easy, but setting it up takes time and effort. Here's how to get started with the service.

Collect and manage contacts

After you get a Google Voice number (which requires an invitation), your first task is to let people know about it. Send it to contacts via email and text message; change the outgoing messages on your old phones to give callers your new number. Commit to calling people from your Google number only and avoid answering calls on the old ones.

(If you want to keep your old numbers, or if you aren't using a smartphone, you can still use Google Voice by forwarding unanswered calls to it. There are carrier-specific directions in the Phones tab in Google Voice's Settings.)

Next, you should collect and organise your contacts. Google Voice uses Gmail contacts, so be sure to sync your Mac's Address Book with Google: Open Address Book, choose File > Preferences, and check Synchronize With Google in the General pane. That done, set up some Groups; they make managing calls much easier. For starters, create one for work, one for friends and family, and one for people you'd prefer not to talk to.

Set up rules

Once your contacts are set up, you should start creating rules to manage your calls and texts. In the Phones tab in Settings, add the phone numbers you use. Then, in that number's advanced settings, use rules to tell Google Voice how to manage incoming calls, depending on where you are and who's calling.

You can also use the Groups' settings to record custom greetings. That way, work contacts can hear a professional "away" message, and friends and family can hear something more personal.

Try other tools

If you don't want to keep a web app open in a tab, you can use a utility like Fluid for Mac (www.fluidapp.com) to run Google Voice on a site-specific browser. If you'd rather not to have another app eating up RAM, you can also use extensions for Firefox and Chrome, to be notified of messages and calls.

If you'd prefer to have a dedicated app, there are a few third-

party Google Voice clients for the Mac. The best is a dashboard widget called GV Connect (macworld.com/3009). It allows you to send SMS messages and make calls to your contacts in Google or Address Book. If you have Growl installed, you can also receive Growl notifications for SMS messages and missed calls. You can't view your inbox in the widget itself, but it does provide a shortcut to the web interface.

The App Store rejected an official Google Voice app, so the iPhone does not have a native app like other smartphones. However, Google has created a slick iPhone-friendly web app (m.google.com/voice) that lets you make calls, view voicemail, and send SMS messages right from mobile Safari.



Virtual voicemail Google Voice does its best to transcribe incoming voicemails so you can see and organise them in your online inbox

Vote now in the **2010 Macworld Reader Awards**, and...

Macworld
Awards 2010

WIN an iPad



Prize supplied by: **SQUARE**

Your vote matters!

Make your views count by voting for the year's best products and be in with a chance to win a 64GB 3G-enabled Apple iPad, an iPad Keyboard Dock, and Apple's leather iPad case.

The iPad is Apple's most revolutionary product to date. We believe it will change the face of computing. Be one of the first to own this groundbreaking device.

The Macworld Awards recognise the products and manufacturers that have made the most significant contribution throughout the past year. Macworld editors nominate products in an extensive range of categories, but readers can also have their voices heard. Log on to www.macworld.co.uk/nominations and have your say.

This year the categories voted for by the readers of Macworld are:

BEST HARDWARE

What was the best non-Apple Mac hardware product to be launched in the past year?

BEST SOFTWARE

What was your favourite non-Apple software introduced in the past 12 months?

BEST MAC RESELLER

Who is the UK's top Mac reseller?

To be in with a chance of winning and to make your voice heard, visit:
www.macworld.co.uk/nominations

Voting remains open until 1 June 2010. Full terms and conditions can be found on www.macworld.co.uk/nominations

How to use Pages on the iPad

By Steve Paris

Learn how to create a word-processing document by touch

The iPad is mostly viewed as a content-consumption device, but Apple has released an iPad-optimised version of its iWork suite, on sale from the App Store for only \$9.99 (estimated £5.99 UK) for each program.

These applications look and feel quite different than their Mac counterparts, but most of the features you would expect are present and accounted for. The one glaring omission is a word and character count tool, which makes the iPad needlessly more complicated for professional writers to use. Hopefully, Apple's engineers will fix that soon.

Over the next three issues, we'll be taking a look at each program in turn, finding out how they work and if the iPad can find its way into your daily work routine.

We'll start with Pages, and see where all the features you're used to are hiding.



1 Getting started

Tap on the Pages icon to launch the program. If this is the first time you've ever opened it, you'll be faced with the My Documents section, represented by a grey background. Only one document exists here at the moment, which is designed to introduce you to the application. At the bottom of the screen are three icons. Tap the middle one and choose New Document from the popover menu.



2 The template chooser

This will take you to the template section. Rather than choosing one of them, opt for the Blank page instead. Make sure you're in portrait mode. At the top of the screen are a few usual commands like bold, italics and underline as well as buttons to justify your text any way you feel. Above it and to the left are a few other control buttons which we'll look at shortly.



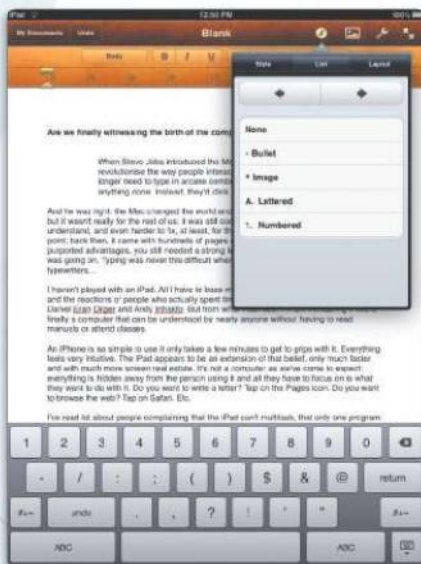
3 Basic control

You can tap on a font style and start writing in bold or italic for instance, or double-tap on a word to select it and then tap on the style to change its appearance. This is pretty standard and it works very well. But what do you do if you want to change the font, its size or perhaps its colour? That feature is not immediately apparent.



4 Text options

Tap on the Info button at the top right of the screen (the button looks like an 'i'). The pop-over menu has three tabs: Style, List and Layout, with Style being selected by default. Scroll down that particular section to see a menu called Text Options. Tap on it to reveal the current size, colour and font, which you can change by tapping on their respective buttons.



5 Lists and tabs
Here you have a choice of 29 colours and 44 fonts. Go back to the main Info menu and tap on the List tab. The two arrows at the top of that section are the tabs. The iPad's onscreen keyboard lacks the traditional tab key, so you can use these arrows to easily indent your text.



6 Changing layouts
The Info's Layout tab lets you alter your text's alignment (just like you can with the same buttons in the toolbar), and you can also break down your text into columns (up to a maximum of four) and choose how wide the line spacing you wish to have.



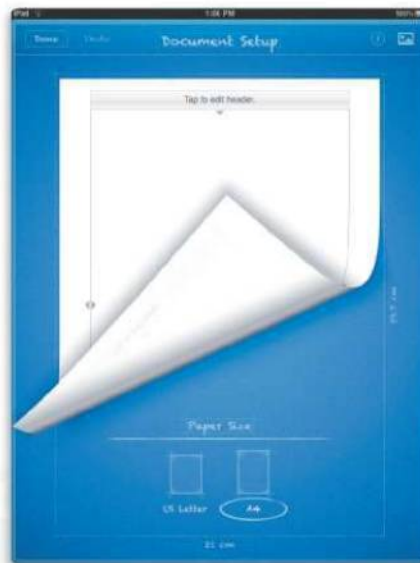
7 The Media Browser
You can, of course, add photos and more: tap on the Insert button (to the right of Info). Use this section to insert photos from your image library, tables, charts and shapes. All 12 shapes come in certain styles (swipe left and right to see them all). You can also include a line, an arrow and even a text box.



8 Shape manipulation
Tap on a shape to add it to your document. You can move it around by dragging it to a new location or resize it by dragging one of the blue circles dotted around its edges. To resize from the centre, hold the shape with another finger as you drag its edges. To rotate it, move two fingers in a circular motion.



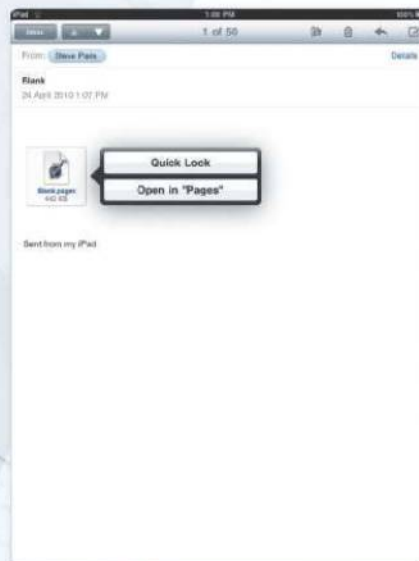
9 Style Options
You can easily change the shape's style: go to the Info's Style tab, then tap on Style Options. You can use the Fill tab to alter its colour, the Border tab to add and customise a border and the Effects tab to add a shadow or alter the shape's transparency. To place an item in front of or behind another, tap on the Info window's Arrange tab and use the top slider.



10 Setting size and margins
Tap on the Spanner icon at the top right of the screen (this opens the Tools pop-over). Tap on Document Setup. You can use this section to resize the margins by dragging them, tap the header or footer to edit them and tap on the curled corner (lower right) to choose whether to use either A4 or US Letter paper size.



11 Sharing
To share a document, tap on My Documents and then tap on the first of the three buttons at the bottom of the screen. You can choose to send the file via email, send it to iWork.com or Export it. Choose the email option and you'll be presented with various formats to choose from. Select Pages.



12 Open in Pages
The document is attached to an email which you can send to anyone you wish. Send it to yourself, then open the email you will have received. Tap and hold on it in your email to be presented with a pop-over. Select Open in Pages. Even though it's the same document, Pages will copy it and include it in your list. Tap on My Documents.



13 Bin it
You obviously don't need two copies of the same document, so let's delete the first one. In the My Document section, swipe the screen until you're faced with the unwanted file. Then tap on the bin button (the third one in the row at the bottom of the screen). A popover will come up to let you confirm or cancel this request.



14 Renaming
Now would be a good time to rename your document. It's not really obvious how to do that since there's no apparent way of altering the default name while inside the document itself. This change can only be done from the My Documents section. While there, tap on the name and the keyboard pops up ready for you to give it a proper title.

To and from your Mac

When you sent a file via email as shown in step 10, you may have noticed an Export option.

Tapping on it would lead you to selecting a format for your file, but once you'd chosen one, nothing would appear to happen. That's because this export option works only when the iPad is connected to your Mac. Launch iTunes, select your iPad from the list and click on the Apps tab. Scroll down to find a list of file sharing apps. Choose Pages and drag your exported document to the Desktop. You could also hit the Delete key to get rid of it, or drag another file from your Mac to import it onto your iPad.



Macworld Masterclass

Training Days

Learn from the Macworld experts at our exclusive training days

- Improve your knowledge of the latest essential Mac software tools
- Develop new skills that will make you more valuable in the workplace
- Discover essential tips and tricks that will increase your productivity

For more information on upcoming Macworld Masterclass training days visit the website below. Don't miss out!

www.macworld.co.uk/masterclass



Nominated for
'Creative Design Software of the Year'



MANGA STUDIO™ EX4

THE STANDARD IN MANGA & COMIC ILLUSTRATION



Manga Studio EX 4, the leading comic and manga creation software worldwide, delivers powerful cutting edge features for Manga and comic artists alike. Manga Studio EX 4 offers thousands of screen tones, professional drawing and colouring tools, and in depth layout and rendering capabilities, making it an essential tool for professional Comic and Manga artists.

- Sketch, scan or import your artwork!
- Digital inking: Ink your drawings with precision using unlimited layers!
- Output professional Manga and Comics to a wide variety of popular file formats.
- Colour artwork using the integrated tool set enabling you to mix and blend colors!
- Save time by simplifying your design process with built-in rulers and other easy-to-use features!
- Draw naturally with a pen tablet.

SRP
£149.99
INC VAT



Visit our website for more
information and for resellers near you

www.softlineuk.com

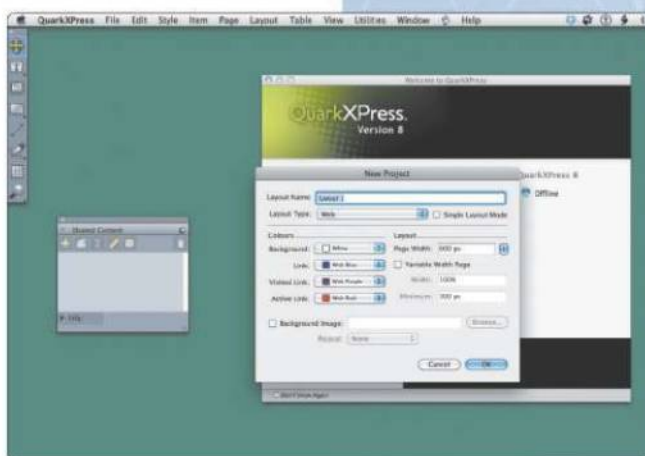
Distributed by Softline UK

Creating QuarkXPress web pages

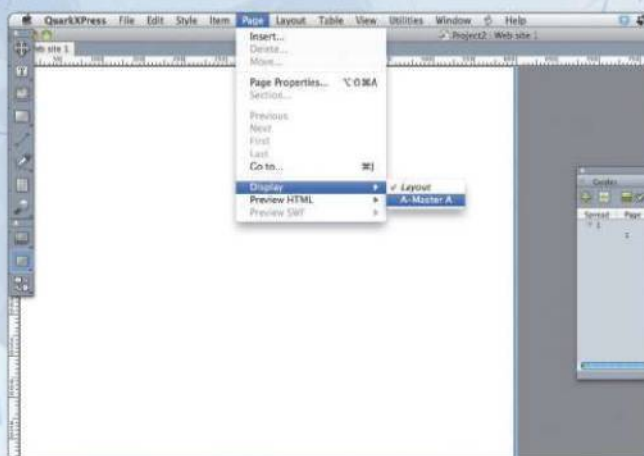
By Michael Burns

Transfer your print design talent to the web with QuarkXPress 8

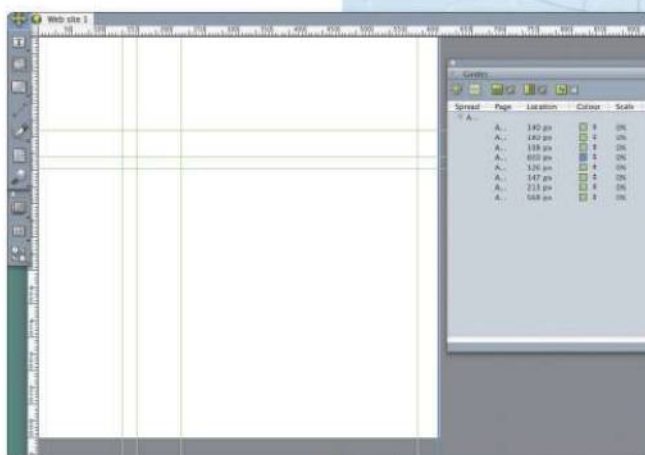
QuarkXPress has been able to produce web content since version 5, but compared to print there are more restrictions in terms of graphics and font support. However web content can incorporate features unavailable in the flat print world and web layouts created in QuarkXPress can offer interactive elements, such as user-activated buttons, menus, hyperlinks, submittable forms and Flash content. We'll explore a few of these options here, and see how QuarkXPress 8 also lets you convert an existing print layout to a web layout. To do so open the layout and choose Layout > Duplicate, and then choose web from the Layout Type drop-down menu. Take note: all text boxes automatically convert to graphics on export and certain style sheet attributes, such as small caps and ligatures, are not supported.



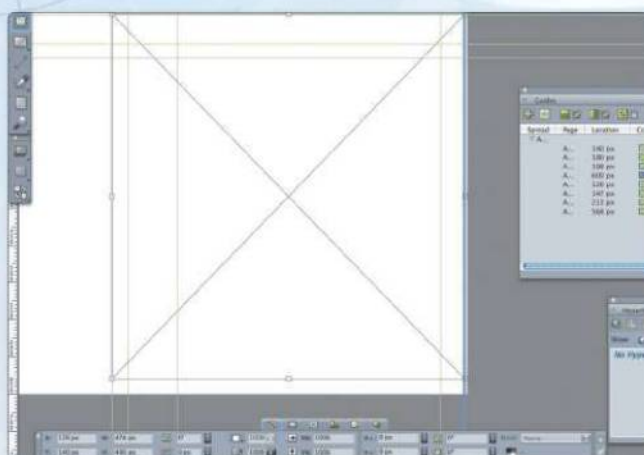
1 New web layout Create a new project (File > New > Project). In the dialog box choose Web as the Layout Type. This will change the options in the dialog box. Leave the page width, colours for background and hyperlink options in their default settings. If you check the Variable Page Width box, your web page will reflow when resized.



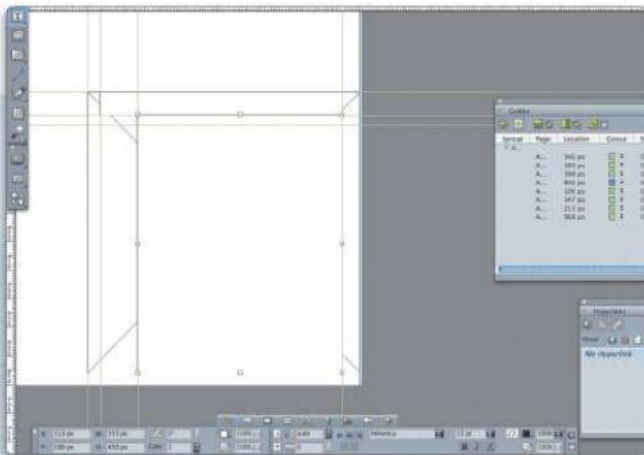
2 Web Layout mode You'll notice new web tools below the standard toolbar and no pasteboard. When you export a project in HTML format, QuarkXPress will export everything on the page. You can incorporate multiple pages in one Web Layout, so we're going to set up a master page for consistency. Select Page > Display > A-Master A.



3 Web Master page On the master page, open Guides (Window > Guides) and create vertical guides at 126, 147, 213 and 568 pixels. Then create horizontal guides at 140, 180 and 198 pixels. Alternatively drag guides from the left and top of the screen and position precisely by using the X or Y field in Measurements.



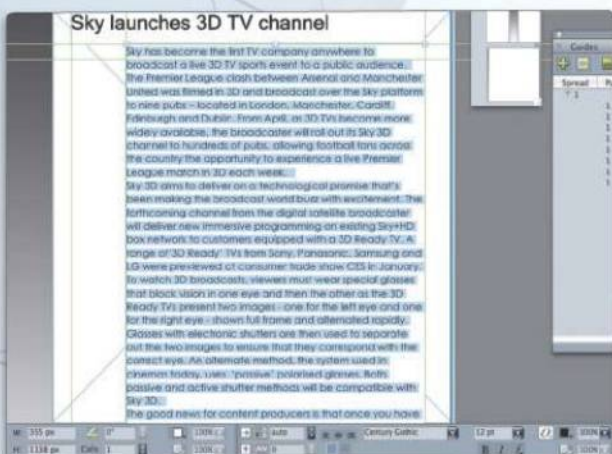
4 Background image Let's create a background image to appear on every page. Using the Picture Content tool we draw a box on the screen with the following values (or you can choose your own): 126 px for X, 140 px for Y, 474 px for W and 490 px for H. You can also use the Classic tab in Measurements for dimensions and positioning.



5 **Headline and story text** Using the Text Content tool this time, we're going to create a text box for headlines with the following values: 147 px for X, 140 px for Y, 421 px for W and 40 px for H. Then we'll add a text box for stories with values: 213 px for X, 180 px for Y, 355 px for W and 450 px for H.



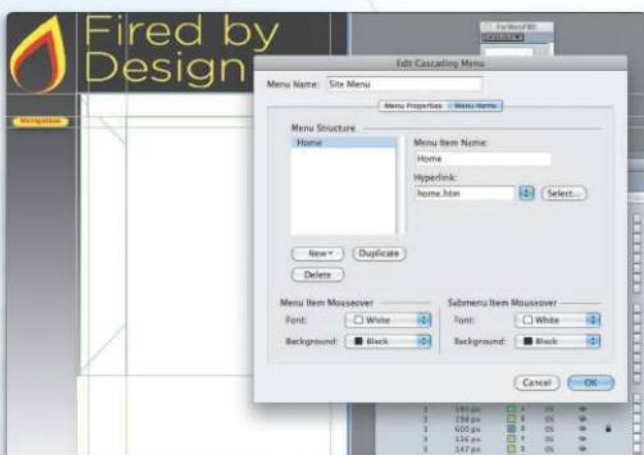
6 **Adding page elements** We created images in Photoshop to be used as recurring elements and saved them in a QuarkXPress library. These are now imported into the layout and positioned using guides from Step 3. Each new page will now have these basic elements so we can return to the layout (Page > Display > Layout).



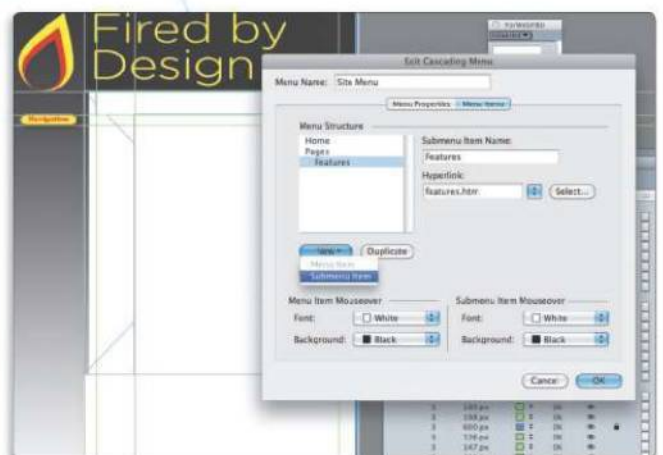
7 **Adding content** In the headline and story text boxes you can either enter text manually and style it using the Measurements palette or import it (File > Import). If you import an .XTG file, check the Interpret XPress Tags box will apply formatting correctly, and then click Open to display the content. Do the same for the story text box.



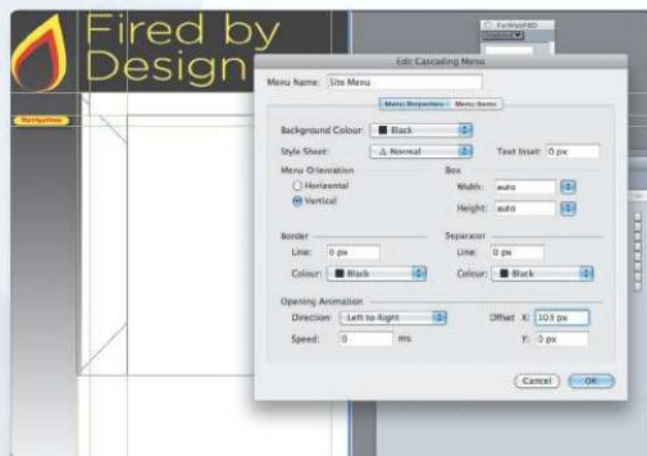
8 **Adding navigation** We're going to add a menu to the sidebar, in order to provide navigation for the website. Create a text box and style it before positioning it in the sidebar between the horizontal guides. Choose Edit > Cascading Menus. Click New to display the Edit Cascading Menu dialog box and name the menu.



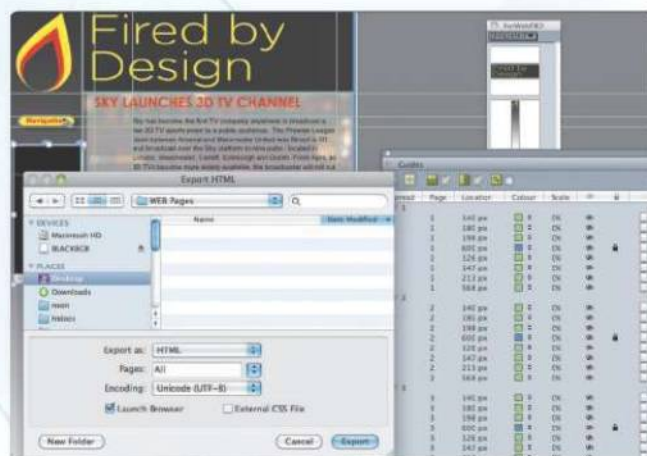
9 **New menu items** We've now added new pages to the site based on the Master page (Page > Insert). Now, return to the Edit Cascading Menu dialog box and click the Menu Items tab. Clicking New and choosing Menu Item adds an entry to the Menu Structure list. Enter the Item name as Home and Home.htm in the Hyperlink field.



10 **Submenus** We now want to create a new Menu Item called Pages. This will be a menu item with a submenu, so we leave the Hyperlink field blank, but with Pages menu selected, we click New and choose Submenu Item. This time, we enter Features in the Submenu Item name field, and enter Features.htm in the Hyperlink field.



12 Preview and fine-tuning Choose Page > Preview HTML > Safari.app (specify your browser in Edit > Preferences) to bring up a web page, displaying submenus as you move the mouse over each item. To adjust positioning, in the Menu Properties tab of Edit Cascading Menu, enter an offset value in the X field in the Opening Animation area.



14 Exporting web layouts Open the Export HTML dialog box (File > Export > HTML) and choose to export all pages as HTML, with Unicode (UTF-8) encoding for maximum international support. Check the Launch Browser box to automatically view the page after it is exported, and leave the External CSS File unchecked. Then click Export.

The contents of an HTML text box are converted to HTML text on export to a web layout. This means a web browser can change the size and flow of the text to fit the end user preferences, so you have no real control over the appearance of the text. However, if you use the Convert to Graphic on Export checkbox in the It instead converted to a picture. Fonts a particular end user the same in a web browser. On the resulting graphic.



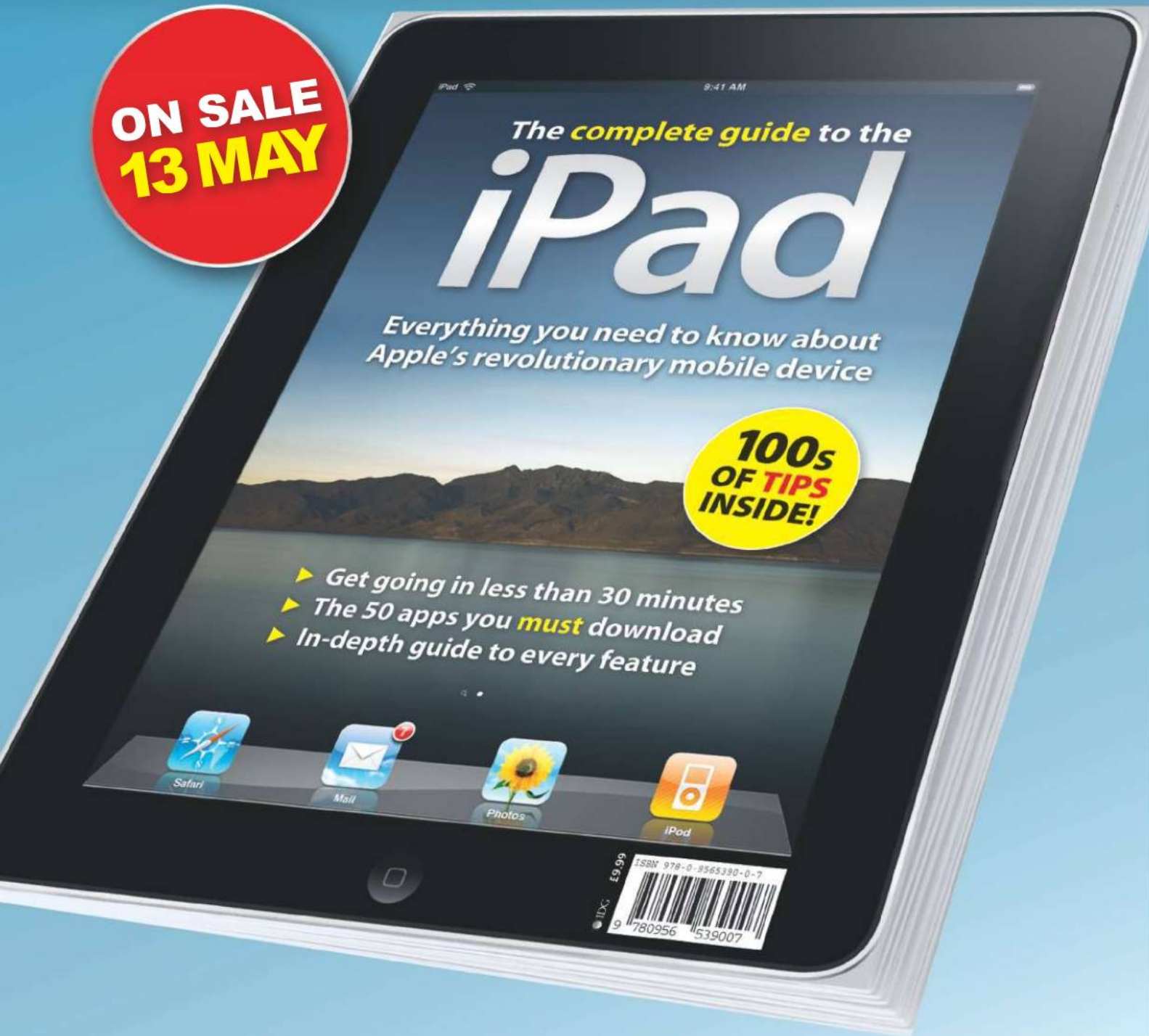
Training Days

- Improve your knowledge of the latest essential Mac software tools
- Develop new skills that will make you more valuable in the workplace
- Discover essential tips and tricks that will increase your productivity

www.macworld.co.uk/masterclass

THE BIGGEST & BEST **iPAD** GUIDE

**ON SALE
13 MAY**



THE PERFECT PARTNER FOR YOUR NEW iPAD...

- Complete guide to setting up and getting going
- The top 50 iPad apps you must download
- How-to use Pages, Numbers & Keynote PLUS other hot apps
- Step-by-step tutorials on all the iPad's best features

On sale for a limited time only – don't miss out!

Control your Mac from your iPad

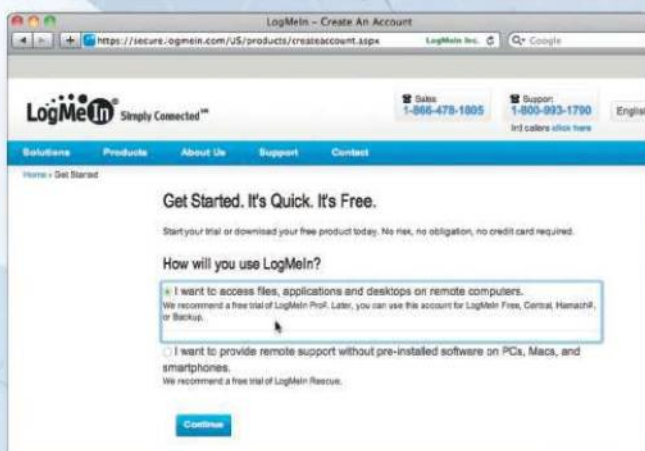


By Steve Paris

Use LogMeIn Ignition to access your computer anywhere

An iPhone or iPad feels like the perfect tool to control your computers remotely, whether you're in another room, or on another continent. However, the idea of setting up preferences to enable this can feel very intimidating to most users, who don't have a strong knowledge of networking. Thankfully, LogMeIn has made this process as effortless as possible: all you need is to set up an account, install the software on your computer and LogMeIn Ignition on your iPad or iPhone.

You have to pay for the app, but the basic desktop program is free. There are obviously some missing features that the 'pro' paid-for version possesses, but it's worth trying the free edition first; what it offers may be good enough for your needs.



1 Create an account Go to www.logmein.com and click on the Create an account link to the right. Make sure you select 'I want to access files, applications and desktops on remote computers' on the next page and click on Continue. Fill in your information on the following page and once done, click on Continue one last time.



2 Add your Mac Like all online accounts, you need to verify that the address you typed in is the correct one. Locate the email you received and click on the relevant link. This will take you back to the LogMeIn website where you'll be given the option of registering your computer. Click on Add this computer.



3 Install free software You'll then be prompted to download a program for your Mac. Do so and proceed with its installation. This is the first part of the process. Once the software is installed, make sure to leave your Mac switched on and connected to the internet. It's time to visit the App Store.



4 Purchase Ignition You can use iTunes on your Mac for this or find the program straight from the iPad. Type in 'LogMeIn' to locate the right application called LogMeIn Ignition. Purchase it. If you bought it through iTunes, you'll next have to sync your iPad with your Mac before you can proceed to the next step.



5 Logging in Tap on the LogMeIn icon on your iPad. You'll be asked to type in the username and password you created in Step 1. This is your LogMeIn username, not your Mac's login. You can elect for the program to remember your details by sliding the Remember login option to On (it's off by default).



6 Choose from the list You'll be presented with a list of your computers that have LogMeIn installed on them. Tap on your computer from the list to begin the process of controlling it remotely. You will be asked to enter another user name and password. This is the login for the Mac you are trying to access.



7 Your screen is a trackpad To control the cursor, think of your iPad screen as a giant trackpad with the mouse staying in the middle. Drag your finger around and the whole screen moves around while the mouse stays in the middle. While you're doing this the mouse moves around the remotely controlled computer.



8 Zooming in and out By default your Mac's entire screen is displayed on the iPad making everything small and potentially hard to navigate. Thankfully, the zoom in and out two-finger gesture is fully supported. Pinch to zoom in and you'll find it much easier to view and click the Mac OS X menu items.



9 Tap to click Tapping the screen once is the same as a single-click. So you scroll the whole screen, and tap when the cursor in the middle is over the item you want. Double tap to double click the mouse remotely, a small mouse icon at the bottom the LogMeIn Ignition screen enables you to switch from left to right click.



10 Dragging objects Double-tap and drag to select the item directly beneath the cursor and move it. You can use the same technique to resize windows. When performing such actions, be aware that it may take a few seconds for the screen to refresh and display the changes you're making.



11 Reverse scrolling Another useful gesture is swiping with two fingers. If you do this with the cursor located over a document or window, you'll be scrolling up or down the content of that section. However, be aware that the scrolling happens the opposite way than you might expect: scroll up to go down, for instance.



12 The keyboard The keyboard is hidden by default. To reveal it, tap on the Keyboard icon at the bottom of the screen. Notice that the Ctrl, Alt and Cmd (⌘) keys also appear top left of the screen. Tapping these highlights them, and enables you to enter key combinations such as Ctrl-⌘-S.



13 Additional keys Should you need to access keys not present in the default iPad keyboard, tap on the icon at the top of the screen, in the middle. This will reveal twelve function keys (which you can use to trigger Exposé or Dashboard, for instance), standard arrow keys, as well as others like Home, End and Escape.



14 Closing down You can get rid of the keyboard by clicking the Hide button. Click on the X icon at the bottom of the screen and choose End session to log out from the remote computer. Then just press the Home button to go back to using your iPad. Note that if you press the home button you'll automatically be logged out.

Refreshing and editing

When you've just logged on to LogMeIn from your iPad and are shown a list of available computers to control, be aware that this list doesn't automatically update itself should one of these computers go offline or wake up from sleep, for instance. This is something you need to check manually by tapping on the Refresh button, top-left of the screen. Tapping on the blue arrow to the right will show you some information about that computer, but if you want to edit anything, such as modifying the computer's name for instance, you have to do this from the www.logmein.com website.



Training Days

Learn from the Macworld experts at our exclusive training days

- Improve your knowledge of the latest essential Mac software tools
- Develop new skills that will make you more valuable in the workplace
- Discover essential tips and tricks that will increase your productivity

For more information on upcoming Macworld Masterclass training days visit the website below. Don't miss out!

www.macworld.co.uk/masterclass




purelygadgets

www.purelygadgets.co.uk

FREE notebook cooler
with any purchase.

Use code at checkout:

MW364199AB

Or call **0207 473 6771**

*While stocks last. Offer valid till 31/07/10. Located at Unit F5 Waterfront Studios, 1 Dock Rd, E16 1AG

On the disc



SCAN IN AND SEARCH DOCUMENTS

ABBYY FineReader – trial

ABBYY FineReader is a highly intelligent OCR (optical character recognition) program for creating editable and searchable electronic files from scanned paper documents, PDFs and digital photographs. ABBYY FineReader 10 gives you the power to unlock data in documents and images and transform them into manageable and accessible information.

The application reaches beyond typical OCR capabilities, such as page-by-page recognition when processing complex, multi-page documents, intelligently reproducing their original structure and formatting.

Exclusive offer for Macworld readers: try out the software included on the disc and if you like it, software reseller QBS will give you £10 off when you purchase the full program through the link contained in the software.

www.abbyy.com

MANAGE YOUR MONEY

AccountEdge 2010 – trial

Mamut's AccountEdge range are Mac-specific accounting applications designed for small businesses. The software builds on the success of MYOB's award-winning products, and offer useful new features, including a networked version. The software covers accounting and invoicing, contact management, stock, payroll and powerful reporting via an intuitive and easy-to-use interface. New features include: form

customisation tools; contact list searching improvements; Google Maps and directions; and Enhanced AppleScript Dictionary.

www.mamut.co.uk/mac



RECOVER LOST FILES

R3COVER – trial

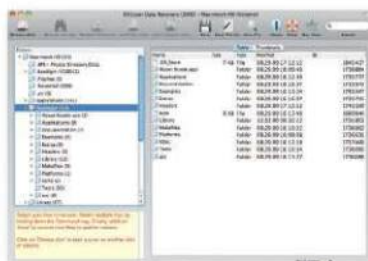
R3cover Data Recovery for Mac OS X is a full-featured, user-friendly, file-recovery utility enabling you to recover the deleted files from any Mac-formatted storage device.

R3cover can help you to recover your lost data from any one of the following data loss problems: emptied a file from the Trash; formatted an external device; cannot locate a lost file.

The software will also recover images, videos, pictures and Music Files from hard drives, and recove data from certain Mac formatted iPods.

If you are unable to find your data using R3cover the company offers free telephone support.

www.r3cover.com



MANAGE YOUR WORKFLOW

Streamtime – trial

Streamtime is a multi-award-winning studio-management system, designed for the advertising, interactive and design industries.

Whether supporting a company of two or a multi-site organisation of hundreds, Streamtime enables complete traffic and production management, signalling an end to job bags, hand-generated invoices and timesheets.

Your investment is protected with dedicated round-the-clock support, online training resources and personal one-on-one training.

Streamtime maximises workflow, taking productivity and creativity to new levels.

<http://previewstreamtime.com/uk/streamtime/>



SURF THE WEB SAFE

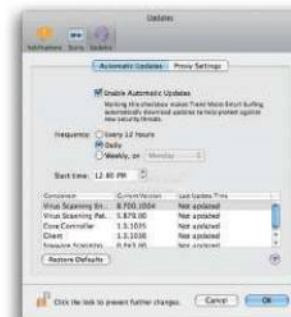
Smart Surfing - trial

With Trend Micro's Smart Surfing for Mac you can surf the web without worrying thanks to built-in protection. It blocks IM and email links that lead to

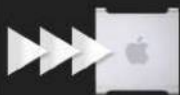
dangerous websites; protects against phishing scams, and prevents websites from installing dangerous software on your Mac.

In addition, you can manage your children's online activity with parental controls and block certain websites. It also defends against viruses, worms, and Trojans.

<http://uk.trendmicro.com/uk/>



INSTALL



Before you start working your way through the software on our disc, make sure you've installed the following utilities:

**Adobe Reader (Mac OS X)**

This PDF reader lets you read the on disc PDF
www.adobe.com

**Stuffit Expander**

You may need to unzip files with Stuffit Expander 10 from www.stuffit.com

**QuickTime 7**

Some programs require QuickTime 7.
Available from www.apple.com/quicktime/download

On this issue's disc you'll find trials of ABBYY FineReader, R3COVER and Smart Surfing

Faulty cover disc?

- If your disc is missing please contact your newsagent or email macworld@subscription.co.uk
- If your disc doesn't work as it should, please email cd@macworld.co.uk
- Drag installer files to your desktop before clicking on them
- Requires Mac OS X

TRY OUT TOP SOFTWARE

Macworld
THE APPLE EXPERTS
MAC / IPHONE / IPAD

Missing CD?
Contact your newsagent

	ABBYY FineReader - trial Unlock data in your documents using this optical character recognition software
	AccountEdge Pro - trial Accounting, invoicing, payroll, reporting and more via an easy to use interface
	Streamtime - trial Traffic and production management for the interactive and design industries
	Smart Surfing - trial Protect your identity and personal data from malicious threats when online
	R3COVER - trial Recover your deleted files from any Mac formatted storage device

WWW.MACWORLD.CO.UK
JULY 2010 ● IDC

Getting started

Place the CD in drive. Open the read me file with further information and installation instructions for the software contained on the disc.

You need to drag the folder of each program you wish to install to your Mac before you double click to install it.

This disc has been scanned to check for viruses, but we still recommend that you run a virus checker before use and keep a backup of your Mac.

The CD provided with Macworld is supplied as is, subject to the following terms. The CD is provided as a free item to readers of Macworld for their personal

use and may not be resold or copied for distribution. The publisher shall have no liability without limitation for any losses or damage arising from using these programs, including any loss of profit, damage to equipment or data, interruption of business, or any other damage, whether direct or accidental. It's recommended that you back up your programs and data before installing this software.

Where telephone numbers or URLs are given for registration of cover-disc software, these may only be valid for a limited period. We cannot be held responsible for discontinued offers. This does not affect your statutory rights.

Macworld THE WORLD'S BEST-SELLING APPLE MAGAZINE

Subscribe now



www.macworld.co.uk

www.WorldMags.net & www.aDowns.net

DON'T MISS OUT, SUBSCRIBE TODAY

& save money!

Order now and pay just **£24.99***
Plus claim your free gift

Call **01858 438 867**
and quote reference JY10

or go to:
www.subscription.co.uk/macw/jy10

- ☒ Save over £10 on newsstand price
- ☒ Receive a free gift
- ☒ Get free delivery straight to your door
- ☒ Every issue comes with a cover disc packed with high-value software

FREE GIFT

Breo Candy Drop noise-reducing earphones

Breo's Candy Drop noise-reducing earphones* are the perfect companion for your iPod, iPad, laptop, portable DVD, radio or other audio devices.

The soft silicon ear buds give you a high-intensity listening experience with crisp and clear sound. With a choice of eight different colours, these vibrant ear buds fit perfectly inside your ears, allowing you to comfortably enjoy your music while blocking out outside noise.

The free gift consists of a set of vibrant coloured headphones with silicon ear bud tips, a pair of replacement ear bud tips and a 1.2 metre-long cord.

Combining sleek design with premium sound quality, noise reduction and maximum comfort, Breo's Candy Drop earphones are sure to become something you won't want to be without!



*Candy Drop earphones come in an assortment of colours; colour cannot be specified.



DON'T MISS OUT, SUBSCRIBE TODAY

*£24.99 covers a six-month subscription to Macworld. For subscribers paying by cheque or credit card subscription rate is £54.99 for 12 months. 12 month subscriptions by Direct Debit cost £49.99. You will receive 14 issues during a 12 month subscription. Your subscription will start with the next available issue. Subscription gifts are subject to availability. If your chosen gift is no longer available we will replace it with a gift of equal or greater value. For overseas rates please call +44 1858 438 867 and quote reference JY10.

www.WorldMags.net & www.aDowns.net

Always judge an iPhone by its cover.



MiLi®

Introducing the World's thinnest all-in-one battery case for iPhone 3G & 3Gs. Not only can its rechargeable battery almost double your iPhone's life, its hard shell also protects it - beautifully!

Compatibility: iPhone® 3G, 3Gs
Standby Time: Up to 230 hours

Talk Time: Up to 3.9 hours on 3G
Internet Use: Up to 3.9 hours on 3G

Audio Play: Up to 19 hours
Video Play: Up to 5.4 hours

Works with
iPhone



This and other fantastic gadgets available now visit:

www.powerskin.co.uk

t: 0844 288 0844 e: info@powerskin.co.uk

powerskin

www.WorldMags.net & www.aDowns.net

Playlist

Everything you need to know about iPods, iTunes, and Mac-based entertainment

The safety dance

Our guide to making sure you never lose your precious media files

By Christopher Breen

Having owned a computer or two in your lifetime, you understand that, like all things temporal, they and their component parts eventually fail. Should that component be the computer's hard drive, you could lose data you've paid for in the form of iTunes Store content—not to mention the sweat for all of the CDs and DVDs you've ripped over the years. Here are some options for backing up your media.

Burn 'em

In iTunes 9 you can easily burn your purchases to CD or DVD as data. Just choose File > Library > Back Up To Disc, and the iTunes Backup window appears. Within this window you have the option to back up your entire iTunes library and playlists or only your iTunes Store purchases. An adjunct option lets you back up only those items added or changed since your last backup.

Regrettably, iTunes doesn't tell you in an obvious way how much data this is. One way to find out is by inserting a blank CD or DVD. iTunes will check to see how much data it needs to back up and will then display a dialog box that tells you approximately how many blank discs you'll need.

Alternatively, in the example of iTunes Store purchases, choose File > New Smart Playlist and create a rule that reads Purchased Is True. iTunes will create a smart playlist that lists all the purchased content in your iTunes library. At the bottom of the iTunes window you'll see how much storage space this consumes.

Neither iTunes nor the Mac OS supports Blu-ray burning but you can purchase a Blu-ray burner and, with a tool such as Roxio's Toast 10 Titanium (£79.99), enjoy the high-capacity storage—25GB or 50GB each—that Blu-ray discs provide to back up your iTunes library. Don't forget you'll need a drive that can read Blu-ray if you want to access that content in the future.

Copy 'em

A less time-consuming option is to simply copy your iTunes library to another hard drive. The simplest way is to use Time Machine in league with an external drive. As with other data, Time Machine will keep an eye on your media and back it up as you add new content.

You can also back up your library by dragging

it to an external drive—by default you'll find the iTunes folder by following this path: youruserfolder/Music/iTunes/. (This method will also back up your iPhone/iPod touch/iPad apps, iTunes library file, playlist info, and so on). The downside is that when you add items to your iTunes library, you must remember to copy those items to your backup manually.

You can avoid this bother by using a synchronisation utility like Econ Technologies' \$40 (£26) ChronoSync 4 (www.econtechnologies.com) to keep the two folders in sync. When you're creating such a synced backup, it makes sense to create a synced copy that works in one direction only—any files you've changed in, or added to, your iTunes folder will be copied to your backup folder, but any files you've removed from your library will remain in the backup. This ensures that you have a master backup of all your content, even when you've removed large movies or TV shows from your iTunes library after viewing.

Cloud 'em

If you're a MobileMe subscriber (£59 a year), you have 20GB of storage space to play with. You can use some or all of that space for your iTunes content. Simply mount your iDisk and drag content to it from your iTunes library; if you're running OS X 10.4 or later, you can also use Apple's Backup 3 application to do the job. You'll find Backup in the Software folder inside your iDisk. Copy it to your Mac, launch it, choose Plan > New Plan, choose Custom in the



Backing up

A utility such as Econ Technologies' ChronoSync can create a master backup of your iTunes library that doesn't change when you delete items from your Mac

sheet that appears, and click Choose Plan. Drag the folder you want to back up to the Backup Items area. Then click the plus (+) button below the Destinations And Schedule area and choose iDisk from the Destination pop-up menu. While this sheet is exposed, you can create a backup schedule to help keep the backup in sync with the contents of your iTunes library.

If your backup needs are modest and money is tight, you could sign up for a storage service such as Dropbox (www.dropbox.com) or SugarSync (www.sugarsync.com) and take advantage of the 2GB of free storage they offer. Alternatively, you can always purchase additional storage or turn to an online backup service.

Pack 'em on your iPod or iPhone

Although iTunes doesn't let you copy files back from an iPhone or iPod, a variety of tools allow you to retrieve media from these devices. We recently looked at 10 iPod extraction utilities (macworld.com/5798). When choosing such a utility, be sure that it can sync not only your iTunes media back to your Mac, but also your playlists, play counts, and ratings.

Put 'em somewhere else

A backup is only as secure as the location in which it's stored. Should your backup hard drive encounter fire, flood, freeze, or furball, it will be just as dead as the Mac on which the original files are stored. While a fireproof safe is a good start, a safe-deposit box or multiple backups scattered among friends and family is better. **MW**

What's your preference?

Essential system tweaks to make your Mac work the way you do

By Kirk McElhearn

Mac OS X's System Preferences program is the one-stop shop for customising many aspects of your operating system. Open System Preferences by choosing Apple menu > System Preferences, or by clicking on the Dock icon that looks like a set of gears.

Each preference pane is labelled to give you a clear idea of the type of elements it lets you change: Appearance, Spotlight, Displays, Network, and so on. Many of these panes have settings that can help you save time and make your computing experience better or more efficient.

Hide the Dock

The Dock is a useful way to access applications, folders, and files, but it also takes up a fair amount of space – valuable space, especially on a laptop. Since you probably don't need to see the Dock all the time, hide it. Go to the Dock preference pane and select the Automatically hide and show the Dock option. Now the Dock will remain invisible until you move your cursor to the bottom, left, or right edge of your screen, depending on where you've positioned your Dock.

While you're in the preference pane, check out the other Dock options. Here you can change its size, position, and more. It's also easy to access these settings from the Dock itself: Control-click on the Dock's separator to see a contextual menu.

Display the date and day of the week in your menu bar

You might want to see more than just the time in your Mac's menu bar. Go to the Date & Time preference pane, and then click the Clock tab. There, you can make some changes: choose to show the day of the week, the date, AM/PM, and more. These can help you keep track of the date with a glance at the menu bar. In the Clock tab, there's also a setting to have the clock announce the time to you every hour.

Customise Spotlight search results

Spotlight, OS X's systemwide search feature, lets you make some changes to the way it provides search results, as well as to the types of items it



Spotlight results, your way. Here we've unchecked items we never search for, and we've reordered the list so that things we do look for will appear at the top of our Spotlight results.

WIN! An iPad & EyeTV Netstream DTT



Elgato is giving away an 64GB WiFi+3G iPad **worth £699** to one lucky reader, plus three readers can win an Elgato EyeTV Netstream DTT **worth £230**

With the World Cup coming up this summer, Elgato wants Macworld readers to be able to enjoy the best of the football. So that Macworld readers don't miss a goal, Elgato is giving away an Elgato EyeTV Netstream DTT worth £230 to three lucky readers.

Over 700 million people watched the last World Cup final, and in 2010 it's hoped over a billion people will tune in. One of Macworld's lucky readers will be able to carry their football recordings with them, because Elgato is also giving away a 64GB WiFi+3G iPad worth £699.

The EyeTV Netstream DTT is a dual network tuner connected to your router and rooftop

antenna (or mini antenna) that streams digital television (DTT/Freeview) to the computers in your network (compatible with both Macs and Windows PCs).

Two people can enjoy different TV programmes at the same time. You can even watch TV wirelessly on your portable computer, free from cables, on a WiFi network.

The EyeTV Netstream DTT includes EyeTV 3 software for Mac and THC software for Windows. Recordings can also be watched on an iPad, iPhone or iPod.

To enter, visit www.macworld.co.uk/win and answer the following question...

How many people worldwide tuned in to watch the 2006 World Cup Final?

- A** | 450 million
- B** | 575 million
- C** | 715 million

To be in with a chance of winning, please visit:

www.macworld.co.uk/win

Elgato is providing one 64GB WiFi+3G iPad and three Elgato EyeTV Netstream DTTs. The winner is responsible for arranging and paying for their own 3G contract with a service provider. Terms and conditions apply. No employees of IDC, Elgato or Apple, or any member of their immediate family may enter. Full terms and conditions may be found at www.macworld.co.uk/win Closing date: noon, 25 June 2010

Macworld

Online

Print

Mobile

News, reviews and opinions on your iPhone or iPod touch

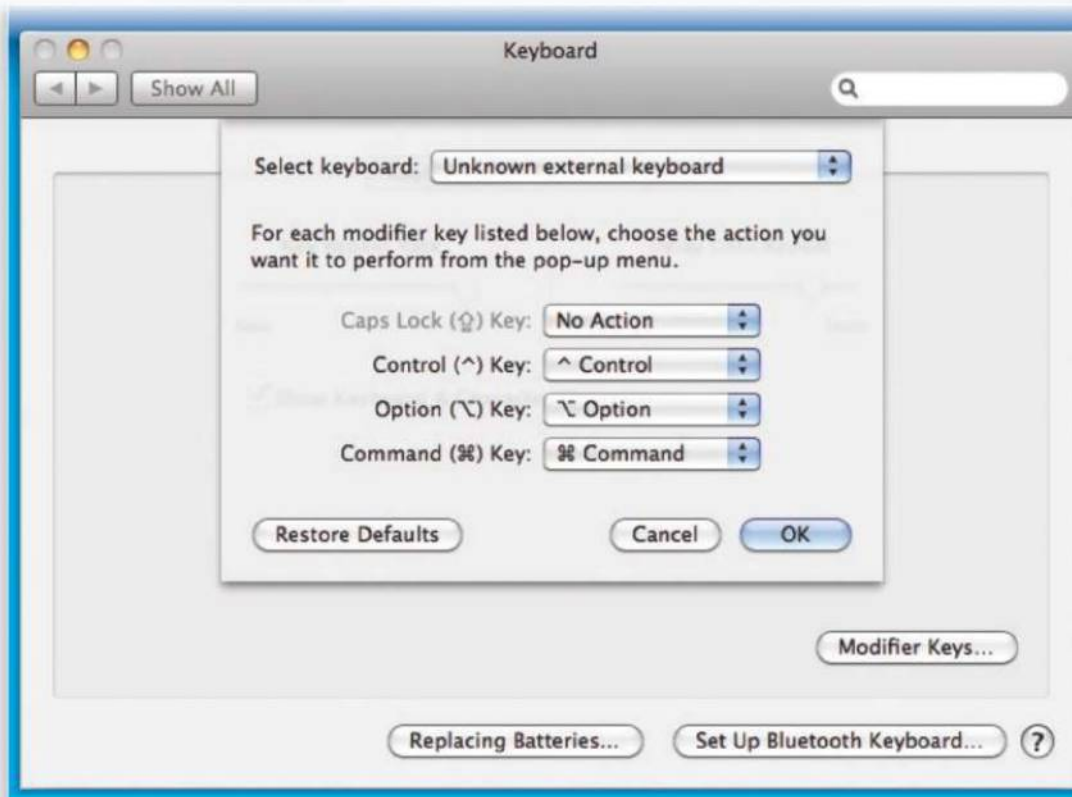


Macworld's News, Reviews, Blogs and Forums are now available on your iPhone, plus the iPod touch.

The Macworld Mobile site is specially optimised for your mobile phone, whether it's an Apple iPhone, Nokia, Samsung, LG, Sony Ericsson or BlackBerry.

mobile.macworld.co.uk

www.WorldMags.net & www.aDownloads.net



Wake your Mac

There's no need to wait for your Mac to boot up if you start working at same time every day. Use System Preferences to make sure your Mac is ready when you are

searches for. For example, do you really need fonts to show in your search results? Probably not. To adjust Spotlight's settings, open the Spotlight preference pane and click on the Search Results tab.

If you untick any items in the list, Spotlight won't search for them (see 'Spotlight results, your way', p88). You can drag these items around to order them the way you want. When you search, the results will display in order in the Spotlight menu, which means that the items you look for most often will appear at the top.

Use your screen corners

Apple's Exposé lets you press certain keys to display either all your windows, all windows of the current application, or no windows (to show your desktop). These features let you switch windows easily, or access your desktop with a single tap of a key.

If you use Exposé often, you can set an active screen corner – also known as a hot corner, to activate this feature. Open the Exposé & Spaces preference pane, and then click on the Exposé tab. In the Active Screen Corners section, you'll see pop-up menus that correspond to the different corners of your screen. There you can set the corners to trigger Exposé, Dashboard, your desktop, and other features.

When these corners have features assigned to them, you can simply move your cursor to

the corners to activate them. For example, you could have your bottom left corner set to All Windows, so you can easily view your windows and switch among them without pressing a key. And you could have the bottom right corner set to Dashboard, so whizzing your cursor down there shows you all your widgets.

Wake your Mac before you're awake

If you have early-bird ambitions but are partial to a lie-in, your Mac can lend a hand by downloading the morning's email before you've left the comfort of your bed.

The means for doing this is in the Energy Saver system preference, where you can designate exactly when you want your Mac to spring to life.

Simply launch System Preferences, click on the Energy Saver item, and, in the resulting window, click on the Schedule button at the bottom of the window.

In the sheet that appears, enable the Start Up or Wake option, choose an appropriate selection – Weekdays, Weekends, Every Day, or a specific day – and then pick a time you'd like your Mac to start up or awaken.

You can also choose a time to put your Mac to sleep, restart, or shut down – a handy option when you haven't the time to wait for your Mac to complete some late-night chore. **MW**

“If you have early-bird ambitions but are partial to a lie-in, your Mac can help by downloading email before you've left the comfort of your bed”

Camcorder tips for special occasions

Capture the joy of any gathering

By Christopher Breen

Special occasions aren't only a time for getting together with friends or family – they're also a time for giving your camcorder a workout. To get videos that are as enjoyable as the events they capture, follow these tips.

Scout the location

Try to spend some time in the location where you'll shoot before the event takes place. Keep an eye out for good and bad light sources and take some test shots. This allows you to choose an appropriate white-balance setting and note locations where you do or don't want to shoot – for instance, facing a bright window that will wash out the subject in front of it.

Don't rely on backlight control

Most modern camcorders include a backlight control. Switch it on when your subject stands before a bright light – the sun, a window, or a spotlight – and the background dims and the subject brightens. But these controls can't work miracles, and while your subject will be brighter, the entire scene may be washed out.

"You can put people at their ease by stepping back and using the camera's zoom to get closer to the action"

Stand back

People often switch into 'pose mode' when they feel the camera's eye upon them – over-acting, stuttering, or completely clamming up. You can put people at their ease (and capture more natural action) by stepping back and using the camera's zoom to get closer to the action. Audio can suffer when you do this: to capture clear sound and video, consider getting a shotgun microphone to mount on your camera.

Learn your manual controls

There will be times when you want to lock focus and exposure to avoid radical changes. Knowing how to quickly move from auto to manual control can help produce slicker videos.



Start rolling early

When shooting an event, be sure to capture a few seconds before the real action starts and a few seconds after the moment has concluded. This will make your videos less frenetic and provide you with calm material that you can use during a transition that takes time – a fade, for example. You'll be glad it's there when you edit your work.

Charge the battery

If your camcorder has been sitting on a shelf for a while, its battery will need charging. If the battery is old, it might need replacing. Several days before the event, charge the battery and then use the camera to test whether the battery can hold a decent charge. If it can't, replace it. While you're at it, grab a spare battery and charge it too. If your camcorder uses removable media – tape or a media card – keep extra media on hand, too.

Share the wealth

Bring a sense of childlike wonder to your video by giving control of the camera to any kids in attendance. If you're reluctant to do this with your expensive HD camcorder, pick up a pocket camcorder before the event and pass it around.

Easy on the narration

Your editing application provides titles and narration tracks for telling the viewer where you are and what you're capturing. It's better to add that information as you edit rather than talking endlessly as you shoot.

Press record and walk away

Some camera operators become so engrossed in capturing events that they wind up witnessing rather than experiencing the fun. So feel free to attach your camcorder to a tripod, point it at the action, press the Record button, and dive into the scene. Pocket camcorders such as Cisco's Flip MinoHD and Kodak's Zi8 are tiny and easy to plant in an inconspicuous place. Later, when editing, you can pull out just the good bits.

Don't sweat it

You want to capture events, not control them. Capturing an imperfect, spontaneous event is far better than documenting a stiff, joyless performance, full of retakes, put on for the camera. Years later, when you revisit these moments through your video, the resulting stories will reflect the joy of the occasion. **MW**



MacVideo

Proudly presents the...



MVA

MacVideo Association



Join Today!

Membership has its privileges

- Up to 10% off Apple products
- High-definition movies to download
- Movies for iPhone & iPod
- Exclusive video tutorials from industry experts
- Massive 30% discount off Focal Press books
- Native camera test footage
- Enhanced listing in the MacVideo Association Directory
- Invitations to exclusive MacVideo Live events
- Extended newsletter packed with exclusive content

Just
£99
Per year



www.macvideo.tv

Mac Help

Handy tips and readers' questions answered – send your questions to machelp@macworld.co.uk

By Christopher Breen and Rob Griffiths

Archive iPhone SMS messages

Q Is there a way to archive iPhone text messages? And is it possible to archive messages from a single sender or to archive all messages received at the end of the day?

Stephen Bolinger

A Ecamm Network's \$20 (£13) PhoneView (www.ecamm.com) lets you copy SMS messages on your iPhone as either a text or an XML file. It can copy all your messages, or all or individual messages from a particular sender. Simply plug your iPhone into your Mac, launch PhoneView, select Messages in the column on the left side of the PhoneView window, select the messages you want, and click the Copy From iPhone button (see 'Take a message'). This is just one of PhoneView's many talents.

Optionally, you can copy messages by jailbreaking your phone, which we really don't recommend, and copying the SMS SQLite database file to your Mac (that file can be found by following this path: `/var/mobile/Library/SMS/sms.db`). You can read the contents of the file with the open source SQLite Database Browser (sourceforge.net/projects/sqlitebrowser).



Take a message
PhoneView
provides you
with the means
for copying tons
of data from
your iPhone

Type accented characters

tip Long-time Mac users know that you can type characters with diacritical marks – for example, â, é, ï, ü, and ñ – by first typing the diacritic (which usually requires the use of the Option key) and then typing the letter. For example, to get â, you press Option-U (to get the umlaut, or diaeresis) and then press A.

If you can't remember all those key combos, you could use Mac OS X's Keyboard Viewer to figure out

which ones do what. It can be a hassle to summon and then hide the Keyboard Viewer whenever you want a special character, though. Or you could try PopChar X (\$47 (£31), www.ergonis.com), the utility that lets you choose special characters from a drop-down menu; but it's probably overkill for most users.

An easier way is built into Snow Leopard (OS X 10.6). Launch System Preferences, open the Language & Text pane, and then open the Input Sources tab. In the list of input methods on the left, scroll down and enable U.S. International – PC. To make it easier to switch to this input method, choose Show Input Menu In Menu Bar.

That done, when you want to insert a character with a diacritic, choose U.S. International – PC from the Input menu on the menu bar and then create the character by typing a standard punctuation character followed by the letter:

To get an acute accent (') Type ' (apostrophe) plus the letter; for example, 'e gives you é.

**To get an accent grave (`)** Type ` (accent grave, or backtick) plus the letter; for example, `o gives you ò.

To get an umlaut, or a diaeresis (¨) Type " (quotation mark) plus the letter; for example, "u gives you ü.

To get a caret (^) Type ^ plus the letter; for example, ^a gives you â.

To get a tilde (~) Type ~ plus the letter; for example, ~n gives you ñ.

To type a standalone diacritic followed by a vowel without creating a character with a diacritic on top of it, follow the diacritic with a space; that will disable the automatic replacement.

Easier diacritics
To insert accented characters without having to memorise complicated key combinations, enable the U.S. International – PC input method





HOST YOUR E-SHOP, PUBLISH A BLOG, OR HOST YOUR PERSONAL WEBSITE WITH **WEBHOSTING.UK.COM**



CPANEL HOSTING

- * HOST UNLIMITED DOMAINS
- * UNLIMITED EMAIL ACCOUNTS
- * cPanel + SOFTACULOUS
- * **FREE DOMAIN NAME**
- * PHP, PERL & MYSQL
- * 30 Day Money Back
- * 24X7 SUPPORT

£ **2.29**/mo

WINDOWS HOSTING

- * HOST MULTIPLE DOMAINS
- * MULTIPLE EMAIL ACCOUNTS
- * WINDOWS PLESK
- * **FREE DOMAIN NAME**
- * ASP, ASP.NET, PHP & MSSQL
- * 30 Day Money Back
- * 24X7 SUPPORT

£ **3.12**/mo



WEBHOSTING.UK.COM

VISIT US @ WWW.WEBHOSTING.UK.COM

CALL US FREE ON 0808-280-0727

EMAIL - SALES@WEBHOSTING.UK.COM

INTERNATIONAL - 0191-303-8069

stm
stmbags.com



a laptop bag cool enough for your laptop

Your laptop now rides in comfort and style. Paperwork here, cables there, keys, some pens and you are good to go.

see our entire line of laptop bags at **stmbags.com**



sonic
fits most 15" screens

Back up iDisk with Time Machine

Q What do I need to do to back up my iDisk with Time Machine?
Thomas Mayer

A Open System Preferences, select the MobileMe system preference, and click the iDisk tab. At the bottom of the window, click Start in the iDisk Sync area. This will cause a local copy of your iDisk to be created on your Mac.

This local copy is stored as a sparse image bundle. If you're running Snow Leopard, you can find it on your Mac by moving to your user folder and following this path: Library/FileSync/IncomprehensiblyNamedFolder where IncomprehensiblyNamedFolder bears a name made up of letters and numbers. Inside this folder is the file you're after: yourmobilemename_iDisk.sparsebundle.

Unless you've configured Time Machine to exclude your user folder and its contents, this is where you'll point Time Machine to look for a backup. Note that when you travel back in time and restore this file, you'll be warned that a file with that name already exists and offered a choice to keep the original, keep both, or replace the original. We recommend keeping both.

If you keep the original, you won't be able to get to your old stuff. If you replace the current sparse image bundle with the old one, your iDisk and Mac will be out of sync and you won't have the files you added since the restore point until they're synced again. If you keep both, you'll have everything you need.

Move the restored file to your desktop, double-click it to mount it, and grab the content you want. Leave the original where it was, remove the text that reads (original) that now appears in its name, and your Mac and iDisk can go back to syncing where they last left off.

Where to store your videos

Q Where is the best place to import and store/organise video? iPhoto or iMovie? And what are the pros and cons to each? Or should I just store video in a separate folder?
Luis Ortiz

A In the interest of being vague rather than wrong, we'll answer this with: it depends. For example, when using a point-and-shoot camera or pocket camcorder such as a Flip MinoHD or Kodak Zi8, you can allow iPhoto to import the videos from these cameras (as it will by default). The reason to do this is that the Media Browser found in most iLife and iWork applications includes an iPhoto entry (to find these movies, select the iPhoto Videos entry in iMovie's Event Library pane). Select the iPhoto entry, and you'll find all the videos that you've imported into iPhoto.

It's rare that we don't use iMovie to edit videos we've captured with a pocket camcorder, and having them a click away makes it convenient to do so. But putting these clips in a different location, means having to use iMovie's File > Import > Movies command, which is less convenient.

However, iPhoto won't import video from an HD or DV camcorder, whereas iMovie will. So in the case of these larger camcorders, iMovie is the way to go. Once clips are imported into iMovie, they're available to the other iLife and iWork applications via the Movies entry in the Media Browser.

Customise the root shell prompt

tip In Terminal, you can enter root mode with the `sudo` command; if you have a lot to do as the root user, you can type `sudo -s`, to stay in root mode until you type `exit`.

Problem is, it's easy to forget when you're working in root mode; there's nothing in the shell interface to remind you. One way to remind yourself is to customise the shell prompt so that it tells you you're in root mode. Here's how to do this in the default bash shell.

Using nano, vi, BBEdit, or any other pure text editor, edit the file named `.profile` in your user home directory. (If this file doesn't exist, create it; if you have a file named `.bash_profile` instead, edit that and not `.profile`.)

To set the root prompt, you need to set the variable `SUDO_PS1` in this file. Let's say you'd like

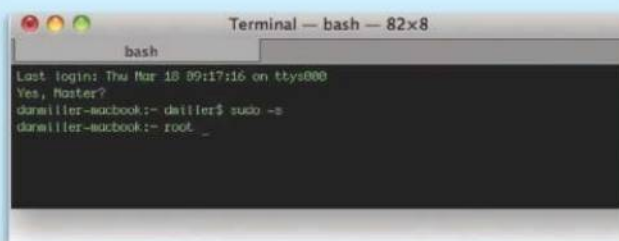
the root shell prompt to show your machine name, the current directory, and the current username – when you're in the root shell, that username will be `root`, which is a good reminder. To do that, you'd enter this in `.profile`:

```
export SUDO_PS1="\[\h:\w\] \u\$\ "
```

(In a nutshell, `\h`, `\w` and `\u` display the host name, the current directory, and the username; that last one reminds you you're in root.) Save the file and quit the editor. When you run `sudo -s` in a new Terminal window, you should see your changes.

You can, of course, customise the root prompt in other ways. To learn how, read the bash manual (type `man bash` in Terminal). Enter search mode (by typing a forward slash: `/`) and then type 'When executing interactively' to go to the section on prompts. There are also extensive tutorials on the web, just a search away.

Root reminder
Avoid costly mistakes by creating a custom shell prompt for root mode



The Movies tab of the Media Browser also contains an entry for the Movies folder within your user folder. Select it, and all the compatible movies within that folder are available to your iLife and iWork applications. Also, if you make a habit of always dumping your videos into the Movies folder, there's little chance that you'll forget where they are.

But then you can also add any folder full of movies you like to each application's Media Browser simply by selecting the Movies tab and dragging the folder into the window. In this case, it doesn't much matter where you've stored the original folder.

Ah, but wait – don't forget about iTunes. Using iTunes, you can import compatible videos and then file them as Movies, TV Shows, or Music Videos. As a viewing application, iTunes is hard to beat.

So, to sum up our approach: for importing and storing pocket camcorder and point-and-shoot videos, we recommend using iPhoto. For importing and storing HD and DV camcorder videos, iMovie is your best bet. For movies that you've downloaded from the web or exported from an application such as QuickTime Pro, use the Movies folder. For viewing movies, use iTunes.

Quickly search Safari bookmarks and history

tip If you ever find yourself digging through your browser history to find a web page you looked at a few days ago (or accidentally closed a few seconds ago), you could use Spotlight instead. But then you'd have to sort through all the other hits a Spotlight search might return. There's another way to search that will find that page more quickly.

Safari has its own 'quick search' feature, hidden in an unexpected location. To use it, click on Safari's Help menu (or press `⌘?` [question mark]) and enter your search term. Instead of searching just Help documents, OS X also searches your Safari history and bookmarks – or, more specifically, the title of each web page in your History and Bookmarks menus.

The results of your search appear instantaneously in the Menu Items section of the Help menu – history items first, followed by bookmarks. (Results from Mac OS X Help are listed after that.) Mouse over a result, or use the up and down arrow keys to highlight it, and OS X

MacBook versus small disc

Q I accidentally inserted a mini CD into my MacBook's media slot. I can't remove it. What should I do?
Via the Internet

A A Mac's media slot is built only for standard 120mm CDs and DVDs. Smaller or odd-sized discs can cause problems, as you've learned.

The safest way to handle this is to take your MacBook to an Apple store or Apple-certified repair

facility and let an expert remove the disc. This service won't be covered by your warranty or AppleCare, as you did a known Bad Thing.

If you prefer to tackle the problem yourself, power off the MacBook, turn it so the slot is facing down, and gently shake the computer from side to side. There's a reasonable chance that the disc is loose within the drive. With the help of gravity and very gentle persuasion, it might fall out.



Macworld Service Directory

MacKing.co.uk

We Stock Parts For All Models of Mac



Quality Refurb + Ex Demo Macs



Tel: 0843 289 5464

Need to manage your Publication?

Publish! v2.5

Bookings, Subscriptions and Marketing!

£625 ex VAT, Incl. FileMaker Pro

Free trial download for MacWorld readers
www.cruisecontrol.com/macworld.htm

Cruise Control - 01923 842 295
products@cruisecontrol.com

CRUISE CONTROL

Cruise Control Ltd: FileMaker database developers
Bespoke and off the shelf. Call now for a quote

FileMaker
BUSINESS ALLIANCE

FileMaker Business
Alliance members



Mac Repairs & Parts

01189

88 66 33

visparts.com

Manage your business and your team with Daylite.

Mac + iPhone
marketcircle

LgoConsulting
www.LgoConsulting.co.uk

JG Consulting
www.jgconsulting.org.uk

Local Partners



Digital and Litho Printing Specialists

Posters - Flyers - Leaflets - Stationery - Brochures
Marketing Solutions - Personalisation - Direct Mail
Perfect Binding - Saddle Stitching - Presentation Folders

In house comprehensive finishing department
Over eighty years experience

0800 783 3241 - www.wellingtonpress.co.uk - info@wpdigital.co.uk

ISO 9001 ACCREDITED ISO 14001 ACCREDITED OHSAS 18001 ACCREDITED

! NEW !

EazyDraw Version 3.4

! NEW with SVG !

WebColorPicker

A RGB / hexadecimal plugin for your Mac OS X color panel.



www.WebColorPicker.com

\$8 - Sold separately. Works great with EazyDraw, use with other applications on OS X.



Illustrations
Web Graphics
Technical Drawings
Charts & Diagrams
Logo Design
Text Layout

eazydraw®

have fun drawing on OS X

Now with free contributed additions including Cisco® networking iconography (over 400 icons), extensive set of Venn diagrams, Esa Holopainen comic character collection.

www.eazydraw.com or call +1 608.444.5245

free shipping

www.WorldMags.net & www.aDownloads.net

 **londonmac**
 Apple Macintosh computers
 and iPods service and repairs

Apple Certified Technician

Apple Mac hardware repairs
 Hardware & software upgrades
 Software troubleshooting
 System installation
 Data recovery and backup
 iPods upgrades and repairs

0845 619 90 09
www.londonmac.com
hello@londonmac.com
 71 Clerkenwell Rd London EC1R 5BU

Mac Trouble?
 ANY MAC - ANY PROBLEM • ON & OFF SITE REPAIRS & SET UPS
 FREE PHONE ESTIMATES

abc rawpaw

- OSX - OS9 - OS8 Software/Hardware
- Home or Business
- Hard Drive Data Recovery
- Email • Broadband • Wireless
- Mac Sales • Confidential • 9am - 7pm

fix@rawpaw.com
www.rawpaw.com

Est 1990

Call NOW for a Fast Friendly Engineer
07968 272 923
01763 272 575

NAME IT
 WE'VE
 REPAIRED
 IT!

London, Herts, Essex, Kent, Surrey, Berks, Beds, Bucks, Cambs, Oxford, Northants, Suffolk, Norfolk

Barcodes simply and quickly Barcode images and fonts

Programs from £95
 Fonts from £49
 Single barcodes £10



2D Barcodes, Barcodes for Packaging,
 Pharmaceuticals and Publishing.

With Agamik BarCoder you are in control
 of the size and colour.
 Create barcodes from text file or a sequence.
 Create them automatically in the background.

Download a free, fully working demo from
<http://www.agamik.co.uk/download.php>

phone: 01506 650 163
 email: info@agamik.co.uk
 http: www.agamik.co.uk
 skype: agamikltd

Used Intel Macs
 bought and sold



Why sell us your Mac?

- You're considering buying a brand new Mac
- You've got a spare Mac just lying around
- Your Mac is broken and the repairs are uneconomical
- You'd just like the cash!

0845 330 22 12 | www.macmart.co.uk

Apple Mac
 Spares &
 Repairs



- New & recycled Apple service parts
- Next day delivery
- Newertech main dealer 
- Trade discounts
- Repair service, uk-wide collection
- Faulty Macs bought, collected & recycled

thebookyard

The Mac parts & Apple repairs specialist

www.thebookyard.com 0151 291 6240

Macworld Buyers' Guide

Mac Pro

UPDATED
03/03/09



Apple's workhorse is based on the lines of Intel's Xeon 3500 and 5500 chip using the new Nehalem architecture. It provides a boost in power that makes you sit up and take notice, compared with the previous generation of Mac Pros.

Nehalem represents one of the largest redesigns in the core architecture of a PC's processor. All of the Xeon 3500 and 5500 series chips have four processor cores to boost the performance of multi-threaded applications.

The Mac Pro comes with a choice of one 2.66GHz, 2.93GHz or 3.3GHz Intel Core Xeon 3500 processor or two 2.26GHz, 2.66GHz or 2.93GHz 5500 series chips.

The Mac Pro's chassis has been reorganised, although the original innovations are still there: ultra-quiet running, easy access to all



of the components, and slide-out bays for hard drives.

The only real change is the ditching of FireWire 400 ports in favour of FireWire 800. You can buy FireWire 800 to FireWire 400 cables for £25 each, but we'd much prefer it if Apple had kept a couple of FireWire 400 ports and ditched FireWire 800 for the much faster and widely supported eSATA.

Pros: Excellent performance; offers much more power for Mac-based creatives; great internal chassis design; the Mac Pro was the first Xeon 5500 Nehalem series workstation to be launched

Cons: Expensive; Mini DisplayPort output is irrelevant; no FireWire or eSATA ports; no 64-bit version of Photoshop for Mac OS X; the iMac Core i5 is a faster system

iMac

UPDATED
20/10/09



Featuring bigger and better screens and new Multi-Touch mice, the physical changes to the aluminium iMac in this fourth-generation update are the most dramatic since it was introduced two years ago.

The iMac is available in four standard configurations. The entry-level £969 iMac and the £1,225 iMac feature 21.5in displays and 3.06GHz Core 2 Duo processors. There are two 27in models: one with a 3.06GHz processor for £1,378 and a 27in iMac with a 2.66GHz Intel Core i5 processor that sells for £1,634.

The Core i5 is currently the fastest Mac ever made, with a better Speedmark score than the Mac Pro. A build-to-order Core i7 version is even faster.

The £969 21.5in iMac is an



attractive deal, but you'll get more storage space and better graphics performance from the £1,225 21.5in iMac. If performance is your priority, the new £1,634 quad-core, 27in Intel i5-based iMac will best suit you.

Pros: Impressive image quality from display at any angle; improved speaker system; new SD card slot; 27in iMac's Mini DisplayPort has video-in support

Cons: Glare and reflections from screen may frustrate some users; FireWire 400 peripherals require an adaptor; Apple Remote not included; 3.06GHz 27in iMac offers no significant performance increase over previous top-of-the-line model

MacBook Pro

UPDATED
13/04/10



Apple has updated its MacBook Pro line. The 13in MacBook Pro now features the Nvidia GeForce 320M graphics processor and 10-hour built-in battery.

With 48 processing cores, the Nvidia GeForce 320M is billed as the fastest integrated graphics processor on the market.

The latest 15in and 17in MacBook Pro models feature Intel Core i5 and i7 processors and

Apple's new automatic graphics switching technology that toggles between the Nvidia GeForce GT 330M and Intel HD Graphics processors.

The MacBook Pro glass Multi-Touch trackpad now supports inertial scrolling, an intuitive way to scroll through large photo libraries, lengthy documents and long web sites. All MacBook Pros feature LED-backlit wide-angle displays with a broad colour gamut.

The 17in MacBook Pro has a high-resolution 1,920 x 1,200 display, while the 15in MacBook Pro is now available with an optional high-resolution 1,680 x 1,050 display.

Customers can also upgrade their MacBook Pro with new 128GB, 256GB and 512GB solid state drives.



Pros: Stunning unibody design; easy to service and upgrade; ecologically conscious; bright, glossy screen; FireWire 800 port; glass trackpad with multi-touch gestures; powerful graphics processor

Cons: No choice of matte screen on 13in models; trackpad button can be hard to press; some multi-touch gestures difficult to manoeuvre

MacBook

UPDATED
20/10/09



In just three and a half years, the MacBook, targeted at average computer users, students and PC switchers, has become Apple's best-selling Mac model. In its first major remodelling since 2006, the white polycarbonate MacBook has gained many of the marquee features of the 13in MacBook Pro, including a unibody design, a glass trackpad and an LED-backlit display.

The unibody design means that, like Apple's other laptops, it features a built-in battery. This means the battery is not user-replaceable, but Apple promises it will produce between three and a half and seven hours of juice.

The new MacBook shares the glass Multi-Touch trackpad with gesture support of Apple's other laptops. While this new

MacBook is slightly wider and deeper than its predecessor, it manages to shave just over 130g from the total weight.

There's no longer a FireWire port on the MacBook. If that's what you need, for £100 more a 13in MacBook Pro with the same processor gives you a FireWire 800 port, plus SD card slot, backlit keyboard and aluminium enclosure.



Pros: Unibody design makes a lighter, more comfortable MacBook; impressive battery life; glass Multi-Touch trackpad; performs as well as or better than a 2.26GHz 13in MacBook Pro; support for up to 8GB of 1066MHz RAM

Cons: No FireWire port; no SD card slot; no IR port; no video adaptors included; a FireWire port, SD card slot and backlit keyboard cost just £100 more

MacBook Air

UPDATED
08/06/09



This astounding laptop measures a mere 19mm at the hinge and just 4mm at the tapered edge. It weighs a scant 1.36kg.

It offers the same 13.3in LED display and full-size backlit keyboard as the MacBook and a large multi-touch trackpad (not the new glass version).

However, it's the slowest laptop – indeed, the slowest computer – in the Mac line. It omits many features that come as standard on other Mac laptops, including multiple USB ports,

FireWire ports, Ethernet port and optical drive.

The Intel Core 2 Duo processor runs at 1.86GHz or 2.13GHz. The entry model sports a 120GB Serial ATA hard drive, while the high-end model has a 128GB solid-state drive. There's no optical drive or FireWire port – just a solitary USB port, headphone socket and Micro-DVI connection.

The price difference between the two is just £200. Although the MacBook Air remains expensive the price has lowered considerably.

Pros: Thin and light; weighs just 1.36kg; full-size keyboard; bright display; new, faster processor; much lower price than previously

Cons: Slower than much more affordable Apple laptops; single USB port; no FireWire ports; no video adaptors in the box; if you want to connect the MacBook Air to an external display – and why wouldn't you? – it'll cost you £20 extra per adaptor

Mac mini

UPDATED
20/10/09



The Mac mini's tiny size (16.5cm square and 5cm tall) and low pricing sets it apart from Apple's other desktop computers.

It doesn't come supplied with a screen, keyboard, mouse or speakers, so if you don't have those already you'll need to factor them into the overall price.

The latest models improve modestly on their predecessors, with faster processors, more RAM and, on the lower-end model, more hard-drive space at the same £510 and £663 prices.

As well as offering no-frills computing, the Mac mini has found a home in many living rooms as a media centre.

This model also makes a pretty versatile server – a fact that Apple has recognised with the launch of a £816 server version with Mac OS X Server already installed.

The new £816 Mac mini with Snow Leopard Server is a fantastic product for small businesses, workgroups and even schools to use. It's probably overkill merely for home use, however.



Pros: Tiny size; impressive set of features; all the dramatic improvements of the early 2009 model plus better performance; server version offers a low-cost way to run Apple's Mac OS X 10.6 Server

Cons: Slow hard drive; difficult to upgrade; the £663 model's performance increase over £510 model is not dramatic

iPhone

UPDATED
08/06/09

Apple has formulated a two-pronged attack with the iPhone: the iPhone 3G is still available with 8GB of memory, while the iPhone 3GS promises a 50 per cent hike in speed, sat nav capabilities, a vastly improved camera and up to 32GB of storage.

The iPhone 3GS is a pricey proposition, especially if you're

already an iPhone user and want to upgrade. However, it is also the most compelling iPhone model yet.

The 3GS has a faster processor compared to the iPhone 3G and Apple says it will run 50 per cent faster when it comes to opening apps and playing games.

The 3GS also boasts a few new apps. The Voice Memos app is useful, but the digital compass could change your life – when combined with Maps and Google Earth, you have a useful navigation tool.

The iPhone 3GS's other main bump is on the camera. The new 3.2-megapixel snapper offers video shooting plus on-screen editing.

The iPhone 3GS costs around £185 (16GB) and £274 (32GB) on £35 per month contracts. For those who can't stretch that far, the old iPhone 3G is available for around £97 on £35 contracts.



Pros: Fantastic multi-touch interface; superb screen; new App Store and application support; browse the web at 3G speeds; GPS chip; no longer exclusive to O2, which means you can get an iPhone on almost any network

Cons: Still more expensive than other smartphones; Voice Control doesn't work very well with British accents; onboard video trimming is destructive

iPad

UPDATED
03/04/10

The iPad is a fantastic piece of hardware, inside and out, but more than that, it's the embodiment of Apple's design philosophy, synthesising cutting-edge hardware design with innovative system and application software.

Should you buy one? That depends on what you want it for. If you're after the latest whizzy cutting-edge gadget, you will find no gadget that is more cutting-edge or whizzier. If you want an internet-connected device that fills the space between smartphone and laptop you'll find the iPad a joy to use.

Of course, you won't be able to view aspects of websites created using Adobe's Flash technology. If you want to view Flash-based content on the web the iPad is not going to satisfy you.

Whether or not the iPad becomes a smash hit right away, or

if it takes time to be embraced by the public as a whole, that doesn't change how strong a product it is. It's an impressive debut for an ambitious new product direction for Apple.



Pros: Futuristic, cutting-edge and innovative; vibrant app community will give it a good future; genuinely a joy to use

Cons: 4:3 aspect ratio means HD video is played at 1,024 x 576 pixels; no built-in camera; keyboard felt a bit cramped; not going to stop you working on a laptop, for now

Macworld Buyers' Guide

Mac Pro

UPDATED
03/03/09



Apple's workhorse is based on the lines of Intel's Xeon 3500 and 5500 chip using the new Nehalem architecture. It provides a boost in power that makes you sit up and take notice, compared with the previous generation of Mac Pros.

Nehalem represents one of the largest redesigns in the core architecture of a PC's processor. All of the Xeon 3500 and 5500 series chips have four processor cores to boost the performance of multi-threaded applications.

The Mac Pro comes with a choice of one 2.66GHz, 2.93GHz or 3.3GHz Intel Core Xeon 3500 processor or two 2.26GHz, 2.66GHz or 2.93GHz 5500 series chips.

The Mac Pro's chassis has been reorganised, although the original innovations are still there: ultra-quiet running, easy access to all



of the components, and slide-out bays for hard drives.

The only real change is the ditching of FireWire 400 ports in favour of FireWire 800. You can buy FireWire 800 to FireWire 400 cables for £25 each, but we'd much prefer it if Apple had kept a couple of FireWire 400 ports and ditched FireWire 800 for the much faster and widely supported eSATA.

Pros: Excellent performance; offers much more power for Mac-based creatives; great internal chassis design; the Mac Pro was the first Xeon 5500 Nehalem series workstation to be launched

Cons: Expensive; Mini DisplayPort output is irrelevant; no FireWire or eSATA ports; no 64-bit version of Photoshop for Mac OS X; the iMac Core i5 is a faster system

iMac

UPDATED
20/10/09



Featuring bigger and better screens and new Multi-Touch mice, the physical changes to the aluminium iMac in this fourth-generation update are the most dramatic since it was introduced two years ago.

The iMac is available in four standard configurations. The entry-level £969 iMac and the £1,225 iMac feature 21.5in displays and 3.06GHz Core 2 Duo processors. There are two 27in models: one with a 3.06GHz processor for £1,378 and a 27in iMac with a 2.66GHz Intel Core i5 processor that sells for £1,634.

The Core i5 is currently the fastest Mac ever made, with a better Speedmark score than the Mac Pro. A build-to-order Core i7 version is even faster.

The £969 21.5in iMac is an



attractive deal, but you'll get more storage space and better graphics performance from the £1,225 21.5in iMac. If performance is your priority, the new £1,634 quad-core, 27in Intel i5-based iMac will best suit you.

Pros: Impressive image quality from display at any angle; improved speaker system; new SD card slot; 27in iMac's Mini DisplayPort has video-in support

Cons: Glare and reflections from screen may frustrate some users; FireWire 400 peripherals require an adaptor; Apple Remote not included; 3.06GHz 27in iMac offers no significant performance increase over previous top-of-the-line model

MacBook Pro

UPDATED
13/04/10



Apple has updated its MacBook Pro line. The 13in MacBook Pro now features the Nvidia GeForce 320M graphics processor and 10-hour built-in battery.

With 48 processing cores, the Nvidia GeForce 320M is billed as the fastest integrated graphics processor on the market.

The latest 15in and 17in MacBook Pro models feature Intel Core i5 and i7 processors and

Apple's new automatic graphics switching technology that toggles between the Nvidia GeForce GT 330M and Intel HD Graphics processors.

The MacBook Pro glass Multi-Touch trackpad now supports inertial scrolling, an intuitive way to scroll through large photo libraries, lengthy documents and long web sites. All MacBook Pros feature LED-backlit wide-angle displays with a broad colour gamut.

The 17in MacBook Pro has a high-resolution 1,920 x 1,200 display, while the 15in MacBook Pro is now available with an optional high-resolution 1,680 x 1,050 display.

Customers can also upgrade their MacBook Pro with new 128GB, 256GB and 512GB solid state drives.



Pros: Stunning unibody design; easy to service and upgrade; ecologically conscious; bright, glossy screen; FireWire 800 port; glass trackpad with multi-touch gestures; powerful graphics processor

Cons: No choice of matte screen on 13in models; trackpad button can be hard to press; some multi-touch gestures difficult to manoeuvre

MacBook

UPDATED
20/10/09



In just three and a half years, the MacBook, targeted at average computer users, students and PC switchers, has become Apple's best-selling Mac model. In its first major remodelling since 2006, the white polycarbonate MacBook has gained many of the marquee features of the 13in MacBook Pro, including a unibody design, a glass trackpad and an LED-backlit display.

The unibody design means that, like Apple's other laptops, it features a built-in battery. This means the battery is not user-replaceable, but Apple promises it will produce between three and a half and seven hours of juice.

The new MacBook shares the glass Multi-Touch trackpad with gesture support of Apple's other laptops. While this new

MacBook is slightly wider and deeper than its predecessor, it manages to shave just over 130g from the total weight.

There's no longer a FireWire port on the MacBook. If that's what you need, for £100 more a 13in MacBook Pro with the same processor gives you a FireWire 800 port, plus SD card slot, backlit keyboard and aluminium enclosure.



Pros: Unibody design makes a lighter, more comfortable MacBook; impressive battery life; glass Multi-Touch trackpad; performs as well as or better than a 2.26GHz 13in MacBook Pro; support for up to 8GB of 1066MHz RAM

Cons: No FireWire port; no SD card slot; no iR port; no video adaptors included; a FireWire port, SD card slot and backlit keyboard cost just £100 more

Apple hardware

	Magic Mouse	Apple	www.apple.com/uk	£56	Xmas 09	★★★★☆
Apple's new input device offers Multi-Touch support and a very stylish design Pros: Looks stunning; Multi-Touch is easy to master, excellent tracking; very fast reconnect after idle Cons: Low profile; may not be comfortable for larger hands; some modes are confusing; buttons and speed settings can't be programmed, expensive						
	iPod touch	Apple	www.apple.com/uk	8GB £152, 32GB £234, 64GB £306	Nov 09	★★★★★ Macworld Editors' Choice
Higher-capacity models feature iPhone 3GS-calibre speeds in the same solid design Pros: Price is good for all models; App Store support; solid music and video player; 32GB and 64GB models speedy as iPhone 3GS Cons: Lacks camera, compass or GPS functionality of iPhone 3GS; 8GB model doesn't have speed enhancements						
	iPod nano	Apple	www.apple.com/uk	8GB £118, 16GB £138	Nov 09	★★★★★ Macworld Editors' Choice
The popular little iPod is now more capable than ever Pros: Larger display; video camera and mic; built-in video effects; FM radio with iTunes tagging; pedometer Cons: Video shot indoors is poor; FM reception adequate but not great; same old earbuds						
	Apple TV	Apple	www.apple.com/uk	£223	Nov 09	★★★★☆
Media player that syncs up your iTunes music and video library to a high-def TV, and allows you to rent movies Pros: Minimal design; easy to set up and start using; automatically syncs with iTunes Cons: 160GB hard drive is paltry compared to other streaming devices; limited playback options (no DivX); remote is awkward to use						
	Xserve	Apple	www.apple.com/uk	£2,451 (base)	Sep 09	★★★☆☆
New architecture yields better performance with less power and heat Pros: Apple's 1U server sees substantial performance improvement; reduced power consumption and heat output Cons: Leopard Server can't utilise its full RAM capacity; SAS drives from a third-party vendor; incomplete Lights-Out Management; no choice of video card						
	Time Capsule	Apple	www.apple.com/uk	1TB £234, 2TB £388	Jun 09	★★★★★ Macworld Editors' Choice
Apple's refreshed network storage device makes a solid product even better Pros: Unique RAID system for different sized drives; faster than original Cons: Not quite as speedy as hoped						
	AirPort Extreme	Apple	www.apple.com/uk	£142	Jun 09	★★★★☆
Apple's network device remains extremely good at its job Pros: Good range and coverage; simultaneous dual-band ensures all devices get fastest connections possible; compatible with any WiFi device Cons: Only three switched Ethernet ports; external power adaptor adds bulk						
	iPod shuffle	Apple	www.apple.com/uk	£59	Jun 09	★★★☆☆
If you're not that fussed about navigating, this is the iPod for you Pros: Supports multiple playlists; can navigate thanks to VoiceOver feature; supports Apple Lossless files; 4GB capacity Cons: No controls on iPod; headphone-based controls are tricky to navigate; battery charge lower than before; tiny switch on iPod fiddly for large fingers						
	LED Cinema Display	Apple	www.apple.com/uk	£649	Jan 09	★★★★☆
Apple's first display designed specifically for use with its laptop line Pros: Fantastic visual style; built-in connections for MagSafe power and USB 2.0; high-quality S-IPS display Cons: Expensive; colour calibration not accurate enough for designers and photographers; can't be height adjusted; no adaptors for older Macs						
	iPod classic	Apple	www.apple.com/uk	£193	Expo 08	★★★★☆
Lots of storage for music and video fanatics Pros: 160GB of storage capacity; impressive battery performance; Genius Playlists are made for this high-capacity classic; good price per gigabyte Cons: No accelerometer or spoken menus; doesn't use more-reliable flash memory found in other iPods						
	In-Ear Headphones	Apple	www.apple.com/uk	£61	Online	★★★☆☆
A bit of a step up in sound quality from the stock earbuds that came with your iPod Pros: Blocks out some external noise while giving you decent sound; features remote control Cons: Difficult to get a good seal, even with the included small, medium, and large earpieces						
	30in Cinema HD Display	Apple	www.apple.com/uk	£1,199	Online	★★★★☆
Unchanged since its launch in 2004, the mammoth Apple monitor also boasts a mammoth price Pros: Provides a huge amount of desktop space; good performance Cons: Requires a high-powered graphics card; lacks external video connector; very high price						
	Apple Mouse	Apple	www.apple.com/uk	£35	Online	★★★★☆
Previously known as the Mighty Mouse, is this a mighty enough alternative to its magical sibling? Pros: Good battery life; on/off switch; excellent wireless range; attractive design; useful scroll ball lets you move in every direction; precise tracking Cons: Force-sensing buttons difficult to press; limited button-programming options; wireless version was discontinued						
	Apple Keyboard	Apple	www.apple.com/uk	£29 (wired), £56 (wireless)	Online	★★★★☆
Both Apple keyboards are made of anodised aluminium and are less than a 1cm thick, perhaps the thinnest models on the market Pros: Thin; good number of special OS X functions; doesn't require third-party drivers; excellent battery life in wireless version Cons: Flat keys not ideal for touch-typists; function keys and Escape and Eject keys run together; no numeric keypad on wireless model						
	AirPort Express	Apple	www.apple.com/uk	£81	Online	★★★★☆
WiFi base station features 802.11n, ProxySTA and music streaming Pros: Full-featured 802.11a/b/g/n wireless access point in a portable package; can share a USB printer over a network; configuration profiles Cons: Ethernet jack only 100base-T; USB port doesn't support AirDisk; wireless-to-wireless performance below that of AirPort Extreme						

Which Mac?

Rewriting the rulebook

www.macworld.co.uk/reviews

Looking for the right Mac? Recent changes to the Mac line up have rewritten the rules when it comes to choosing the most suitable system.

Old Rule: I'm a power user; therefore, I need a Mac Pro.

The New Rule: For many power users the Mac Pro is overkill, and an iMac or a MacBook Pro is powerful enough. The Mac Pro is an option for people who need the utmost from a Mac. If you're performing intense scientific calculations or editing HD video aided by the latest PCIe card, a Mac Pro is a great choice.

Old Rule: I need a really fast Mac so I can run Windows.

The New Rule: If you spend a lot of time running Windows via virtualisation software, you'll want a more powerful Mac and lots of RAM. To play 3D PC games, you'll need Boot Camp and a decent graphics card. But if you just want to run a few standard Windows programs, you can choose any Mac with sufficient RAM.

Old Rule: I'm a power user, so I need a desktop system, not a laptop.

The New Rule: Unless you're on a strict budget or plan on using your Mac only at your desk, you can consider buying a Mac laptop.

Old Rule: I need a desktop Mac for serious work, and a laptop for travel.

The New Rule: Mac laptops are fast and flexible. If you need more power than a laptop can provide, or if it will have more than one user, a two-Mac solution might be a better bet.

Old Rule: Macs are expensive if you want good performance.

The New Rule: Although prices have stayed roughly the same over time, the performance of lower-priced systems has improved dramatically.

Old Rule: I need a large, non-glossy display for video and photo work.

The New Rule: If you're doing high-end work with a laptop, connect a desktop display when you're at home or in the office. If you're bothered by a small, glossy screen, and you'll be doing most or all of your computing on the move, you may want to opt for a 17in MacBook Pro.

Macworld Buyers' Guide

Macworld score guide

Each product reviewed in Macworld is given a rating out of five stars.

A five-star product is, clearly, a must-buy for anybody interested in that area of software or hardware. We do not hand out five-star awards lightly and it is always the subject of discussion among the Macworld team. To get five stars, a product must excel at what it does, be of practical use to Mac owners and bring something to the table that hasn't been seen before.

Most products that do their job very well are handed four stars; anything that gets a four-star rating is an excellent product that will make its owner proud. You should not hesitate to buy a four-star product.

We want to emphasise that a three-star product is good, but it is average. Three stars is a score that a perfectly adequate product should get, but you might be able to find better for your money.

Obviously the same can't be said of a two-star product, which will be decidedly out-gunned by better creations on the market. And as for one-star products? Well, the less said about those the better...

★★★★★

An outstanding product that excels at what it does – buy it!

★★★★☆

A great product that you should feel confident to buy

★★★☆☆

A good product that functions adequately. Still recommended

★★☆☆☆

There are flaws here but it may be worth picking up as a bargain

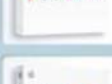
★☆☆☆☆

Avoid this product. It has serious flaws and we suggest you spend your money elsewhere

Macworld Editors' Choice

This is the Macworld award that is handed out to exceptional kit. As the name suggests, it goes to the software and hardware that the editors on Macworld would use themselves. The award is handed out only to the 'best-of-kind' products on the market, and only after discussion among the Macworld team. The award is not linked to the score, and a four-star product can get the award if the team feels the product is the best available, even if it could still do better. Likewise a five-star product can luck out on the award if the team feel that a marginally better product exists.

Apple software

	Aperture 3	Apple	www.apple.com/uk	£169	Apr 10	★★★★☆
It's been nearly two years since Aperture was last updated. Is the new version up to today's tasks? Pros: Vastly improved slideshows; impressive new brushes; multi-touch aware; ability to split and merge libraries; easy export to Flickr and Facebook Cons: Sporadic reports of potential problems when upgrading older libraries; web page creation hasn't been overhauled						
	Logic Express 9	Apple	www.apple.com/uk	£163	Xmas 09	★★★★★ Macworld Editors' Choice
Logic Express says come hither to GarageBand users looking for more Pros: Slick studio features; plenty of virtual amp/pedal/speaker combos for guitarists; ability to add chord diagrams to printed music; high quality effects Cons: Interface still dense despite streaming; could use more templates and a tutorial for beginners						
	Snow Leopard Server	Apple	www.apple.com/uk	£408	Dec 09	★★★★☆
Apple's server software gets the Snow Leopard treatment, with faster underlying code and a whole new set of features Pros: Full 64-bit power will be welcome in a server environment; easy to set up; fantastic set of web services; Podcast Producer 2; cost effective Cons: At its best working with other Macs, CardDAV standard in its early stages; Intel-Mac only; Podcast Producer 2 difficult to set up						
	iTunes '09	Apple	www.apple.com/uk	Free	Nov 09	★★★★☆
iTunes continues to evolve beyond just music with an array of great new features Pros: Significantly improved media management and syncing features; improvements to iPhone app organisation; Home Sharing features; Genius Mixes Cons: Home Sharing auto-transfer feature limited to iTunes-bought media; no way to edit Genius Mixes or view their contents; occasional crashes						
	Snow Leopard	Apple	www.apple.com/uk	£25 (upgrade), £132 (box set)	Oct 09	★★★★★ Macworld Editors' Choice
Mac OS X 10.6 upgrade adds Exchange support and a host of tweaks Pros: Generally faster than Leopard; supports Exchange; rudimentary malware checking; most programs run in 64-bit mode; Exposé/Dock improvements Cons: Lacklustre QuickTime Player update; many features won't truly be exploited until Mac hardware evolves						
	Logic Studio	Apple	www.apple.com/uk	£408	Oct 09	★★★★☆
Music workstation adds flexible audio, live performance, virtual amps and more Pros: Flex Time and editing improvements; MainStage 2 is a more complete live performance solution; lots of amp and effects goodies; usability tweaks Cons: MainStage's looper can't set a tempo from a first loop; some tasks require switching from Flex Time Markers; MIDI editing due a refresh						
	Final Cut Studio	Apple	www.apple.com/uk	£816	Aut 09	★★★★☆
After two years, Final Cut Studio gets a range of solid but modest improvements Pros: New ProRes codecs; time-saving and automation of Easy Export; iChat Theatre; lots of productivity improvements Cons: Some glitches still not fixed; limited Blu-ray support; mediocre progress in two years since previous version; Redcode still not optimally supported						
	Safari 4	Apple	www.apple.com/uk	Free	Aug 09	★★★★★ Macworld Editors' Choice
If you want the fastest browser on the Mac, Safari 4.0 is the hands-down winner Pros: Fastest Mac browser; slick interface; built-in tools for web developers Cons: Unhelpful loading indicator; bare-bones help files; takes up more hard drive space than rivals						
	iWork '09	Apple	www.apple.com/uk	£71	Mar 09	★★★★☆
This valuable update makes Apple's office programs almost perfect Pros: Table Categories ease analysis in Numbers; better Numbers and Pages integration; improved Theme Chooser and Presenter Display in Keynote Cons: No Excel macro support in Numbers; Keynote needs better system for managing multiple objects on a slide; can't preview mail merge documents in Pages						
	iLife '09	Apple	www.apple.com/uk	£71	Online	★★★★☆
The combination of iPhoto '09, iMovie '09, iPhoto '09 and iWeb '09 make this an essential upgrade Pros: iMovie '09 has enough features to compete with Final Cut Express; Faces and Places make it easier to categorise your iPhoto photos Cons: No iMovie '09 support for writing back to tape; can't have more than one iMovie project open at a time; iWeb templates limit design flexibility						
	Final Cut Express 4.0	Apple	www.apple.com/uk	£129	Online	★★★★☆
With the same code base as Final Cut Pro, Final Cut Express offers pro-level editing for people who have hit iMovie's ceiling and want more Pros: Ability to import iMovie projects and use iMovie as a video library; editing with most of Final Cut Pro's features; lower price compared to earlier versions Cons: Soundtrack app no longer included; limited number of included LiveType effects; modest changes from previous version; last update in 2007						
	Final Cut Server 1.5	Apple	www.apple.com/uk	£816	Online	★★★★☆
Asset-management solution streamlines Final Cut Pro-based productions, unchanged since 2008 Pros: Automated workflow; multi-format support; versioning metadata customisation; cross-platform client operation Cons: Initial configuration requires detailed set-up; administrator support required for smooth operation; server only supported on Mac OS X 10.5 and above						
	iPhone 3	Apple	www.apple.com/uk	Free	Online	★★★★☆
Useful features and refinements make this upgrade a no-brainer (now free to iPod touch users as well as iPhone users) Pros: Cut, copy, and paste functionality; wider availability of landscape keyboard; Find My iPhone feature; can download movies over the network Cons: Search options are limited; no orientation lock for display; Shake to Shuffle feature is too easy to use accidentally; iCal invitations still not supported						
	MobileMe	Apple	www.apple.com/uk	£59	Online	★★★☆☆
MobileMe got off to a sputtering start, and there are still some kinks to work out, but it's more closely tied to the iPhone now Pros: Almost immediate synchronisation to iPhones and the web; increased (20GB) online storage Cons: Some .Mac services gone; sync conflict reporting needs more information; ongoing performance issues						
	QuickTime X	Apple	www.apple.com/uk	Part of Snow Leopard	Online	★★★☆☆
Apple's QuickTime Player has been completely revamped for Snow Leopard Pros: Offers some editing tools and new recording features Cons: Lacks so many of the features of the previous version that Apple has made QuickTime Player 7 optionally available as a separate installation						

iPhone & iPad apps

Business and productivity

	Billings Touch	Market Circle	www.marketcircle.com	Free	Jun 10	★★★★★ Macworld Editors' Choice
Time-tracking app shines, both on its own and with desktop counterpart Pros: Create and send invoices; time tracking continues while in other apps Cons: Some administrative set up; some features only available in the paid-for version (£8.99)						
	Pastebot	Tapbots	www.tapbots.com	£1.79	Apr 10	★★★★★ Macworld Editors' Choice
Harness the power of a clipboard manager with this excellent app Pros: Intelligent import won't import the same clip twice; store clippings in multiple folders; syncs with your Mac Cons: Some problems copying files from a Mac; can't run in the background						
	Dropbox	Dropbox	www.dropbox.com	Free	Feb 10	★★★★☆
Mobile component to online syncing and storage service offers solid features Pros: View Word, Excel and PowerPoint documents; wireless photo syncing Cons: Can't edit files						

Games and entertainment

	Assassin's Creed II: Discovery	Ubisoft	assassinscreed.uk.ubi.com	£3.99	Apr 10	★★★★☆
Impressive translation of console mega-hit Pros: Great graphics; thorough tutorial; responsive controls Cons: Not replayable once beaten						
	Monopoly	EA Mobile	www.eamobile.com/iphone-games	£2.99	Feb 10	★★★★★ Macworld Editors' Choice
Build your property empire as the original version of the classic board game finally hits the iPhone Pros: Fun animations and sound effects; challenging AI components Cons: No remote player mode						
	Need For Speed Undercover	EA Mobile	www.eamobile.com/iphone-games	£2.99	Online	★★★★★ Macworld Editors' Choice
Racing game gets every detail right Pros: Good story; great effects; well thought out controls; good looking graphics and in-game sound effects Cons: None						

Lifestyle and reference

	Pocket Universe	Craic Design	www.craicdesign.com	£1.79	Nov 09	★★★★★ Macworld Editors' Choice
Carry the heavens in your pocket Pros: Knows almost precisely what your iPhone 3GS is pointing at; Tonight's Sky report Cons: Earlier iPhones and iPod touch users have to drag to reflect movement						
	Facebook	Facebook	www.facebook.com	Free	Online	★★★★★ Macworld Editors' Choice
Facebook on the iPhone actually feels better than the full version of the site Pros: Quick access to the main menu; swipe to a new area where you can add favourite people and groups; notifications alert at bottom of screen Cons: Lacks some of the functionality of the Mac version, such as turning off notifications about FarmVille						
	RunKeeper Pro	RunKeeper	www.runkeeper.com	£5.99	Online	★★★★☆
Like Nike+ but it doesn't require the fancy equipment in addition to your iPhone Pros: Integration with Google Maps so you can view your routes; stores exercise activity; share via Facebook and Twitter Cons: Pricey – but a free version is available with a decent subset of the full versions features						

Photography

	Tripod Camera	MK HQ	www.mkhq.co.kr	£1.19	Jun 10	★★★★★ Macworld Editors' Choice
A nice addition to any shutterbug's toolkit Pros: Take level shots; anti-shake feature; make the entire screen a shutter button; flash effect; 10-second timer Cons: No custom timer option						
	Mill Colour	The Mill	www.the-mill.com	Free	Mar 10	★★★★★ Macworld Editors' Choice
Photo-grading app brings out the colour in your images Pros: Offers precise control and easily adjusted pre-set looks Cons: Lacks further editing features						
	Brushes	Brushes	www.brushesapp.com	£2.99	Online	★★★★★ Macworld Editors' Choice
Brushes puts an advanced colour picker and a variety of brushes and layers at your disposal Pros: Sketch and paint anywhere; supports transparency; .brushes video files Cons: You'll need some artistic skill; .brushes files won't play on a PC						

App Store user guide

Find the gems among the 140,000 App Store apps

You can get apps from the iTunes App Store using your Mac or via the App Store button on your iPhone. The tricky part is finding the apps you need.

Mixed in with the zillions of mediocre and silly apps, there are thousands of really valuable apps – ones you might never know about if someone didn't point you in the right direction. There are apps for everything – from keeping up to date with what's happening on Facebook to keeping yourself organised. Many are free, so you can add to the functionality of your iPhone without breaking the bank. Others cost just 59p or a few quid.

Because there are so many apps it can be very difficult to find the one that best suits your needs. In an attempt to make good apps easier to find, the App Store provides tools, but they're troublesome: reviews are littered with ratings and comments that make no sense; and charts benefit apps already listed within them. You might be tempted to look though the top 50 apps in a particular category, but bear in mind that once an app breaks the top 50, it tends to stay put by virtue of being easy to find. Unfortunately, this means many apps never reach a wide audience.

With the iPhone 3.1 update Apple extended its Genius media-recommendation algorithm to iPhone applications. It looks at the apps you already own and makes recommendations based on that information. This is helpful, but if you already own one quiz app do you really need another?

Once you do find an app you want to download – perhaps having read a Macworld review – installing it couldn't be simpler. Find the app either via the App Store link on your iPhone or through iTunes on your Mac, click Get App, enter your password (if the app is free you won't be charged), and the app will download in a jiffy.

If your iPhone or iPod touch gets over run with apps, it is simple to remove them. Just sync your iPhone with your Mac and deselect the apps you don't want to carry on the phone by selecting the applications tab in iTunes. This way you will not lose the app you bought and can resync it at any time.

Macworld Buyers' Guide

What to look for in a... HD camcorder

Broadcast TV is going completely digital; HD movie downloads are becoming more common; and the large, analogue cathode-ray tube TVs of old are being consigned to the scrapheap. Given our increasingly high-def landscape, is it time to consider an HD camcorder? In a word, yes. Prices for these camcorders have dropped and recent Macs have enough horsepower to edit the huge files these cameras can generate.

Here are the features to look for when you're ready to make a purchase:

You'll get cleaner video out of the camcorder if it captures 1080p video (rather than interlaced 1080i video, which produces smoother but more jagged images).

Do you have an older Intel Mac or a PowerPC Mac? If you purchase an AVCHD camcorder, you're going to have to jump through the extra hoops of converting your video so you can edit it on your older Mac. HD camcorders will be a friendlier fit and still produce spectacular video.

All full-size camcorders have optical zoom. If you sometimes shoot your kid's football games from the back row, look for a camcorder with a long reach – 12x optical zoom or better.

The larger the sensor is, the better the detail and the low-light performance. If you'll regularly shoot in low light, seek a camcorder with a 1/3in sensor.

If you need to shoot non-stop for long periods, get a camcorder with a hard drive. If you can deal with shorter shooting times find a camcorder that records to removable media as it's easily swapped.

Ports are important, particularly if one vital to your work or pleasure is missing. Filmmakers doing professional work will need a camcorder with a microphone port. Also check for a hotshoe for attaching a light.

The point-and-shoot convenience of today's HD camcorders is great, but if you want more flexibility, look for greater manual control. At the very least, you should be able to adjust a camcorder's exposure and white balance.

Small as full-size camcorders are these days, they don't fit in your pocket. If you often wish you had a camcorder with you consider a pocket camcorder. The video won't be equal to what you capture with a full-size camcorder, but you'll at least capture something.

Christopher Breen

Cameras, camcorders, graphics tablets

DSLR cameras

	K-x	Pentax	www.pentax.co.uk	£599.99 (18-55mm lens)	Mar 10 ★★★★★ Macworld Editors' Choice
If you're looking for (nearly) all the latest must-haves in one package, the Pentax K-x offers good value for money					
Pros: User-friendly yet full-featured; ISO range expandable to ISO12800					
Cons: No rechargeable battery; plastic feel and basic control layout; no HDMI-out					

	EOS 5D Mark II	Canon	www.canon.co.uk	£2,690 (body only)	May 09 ★★★★★ Macworld Editors' Choice
High resolution, HD movie capability and Live View plus ISO2560000 sensitivity set Canon's contender apart					
Pros: Live View; responsive, crisp results; HD-quality movies					
Cons: Bulky; expensive; images at ISO2560000 appear to have been faxed in					

	Lumix DMC-G1	Panasonic	www.panasonic.co.uk	£579.99 (14-45mm lens)	May 09 ★★★★★ Macworld Editors' Choice
Panasonic packs a full feature set into this Micro Four Thirds camera					
Pros: Good price; lightweight; user-friendly; good image quality with bundled lens					
Cons: May frustrate more experienced photographers; pixel fringing can be noticeable					

Compact cameras

	FinePix F70EXR	Fujifilm	www.fujifilm.co.uk	£230	Xmas 09 ★★★★★ Macworld Editors' Choice
The F70EXR promises DSLR-style effects from a small and attractive form factor with a host of innovative features					
Pros: Innovative features not found outside the Fujifilm range; class-leading results in low light at highest ISO settings; fast and responsive; easy to use					
Cons: No HD video, which would have made this cute compact a world beater					

	PowerShot G11	Canon	www.canon.co.uk	£569	Xmas 09 ★★★★★ Macworld Editors' Choice
The G11 swaps high resolution for a better performance in low light, adding a tilting screen and a 5x zoom lens					
Pros: Solid construction; comprehensive feature set and manual control; rangefinder-like dials; good results (low noise) if sticking at ISO 3200 or below					
Cons: Pricey; bulky; no HD video; less pixels than offered by its G10 predecessor; poor continuous shooting speed (1.1fps)					

	EasyShare Z950	Kodak	www.kodak.co.uk	£199	Xmas 09 ★★★★★☆
The chunky Z950 pocket model offers a DSLR's manual capture settings and HD video, built with 'Smart' Auto mode to fall back on					
Pros: Great value; rock-solid build; pocket-sized; more manual features than usually offered at the price yet easy to use; broader than average zoom range					
Cons: Performance in low light can't match the others here; slower in operation; bulkier than rival 3x zoom options (and Fujifilm's F70EXR)					

Camcorders

	GY-HM100	JVC	www.jvcpro.co.uk	£2,850	Jan 10 ★★★★★☆
This small form factor professional camcorder captures the big picture perfectly					
Pros: Shoots to SDHC card; records native QuickTime files with perfect Final Cut Pro integration; good audio with phantom-powered XLRs					
Cons: Mic holder is too small for professional microphones; fiddly controls; when switching formats clip recorded in previous format won't show for playback					

	Legria HF S10	Canon	www.canon.co.uk	£893	Dec 09 ★★★★★ Macworld Editors' Choice
Excellent quality HD camcorder let down only by poor mic placement					
Pros: Excellent picture quality even in low light; good range of features; easy to use					
Cons: Poor microphone placement; no 5.1 channel surround option; no optical viewfinder; control dial is a bit fiddly					

	Xacti VPC-CG10	Sanyo	www.sanyo.co.uk	£229.99	Jul 09 ★★★★★☆ Macworld Editors' Choice
With a comfortable pistol grip, the Xacti VPC-CG10 offers HD video or high(ish) resolution stills at the press of a button					
Pros: Fun and easy to use; decent stills and video resolution; reasonably comprehensive feature set; 3in LCD					
Cons: Interpolation offers no visible benefit; SD/SDHC card is extra; not full HD					

Graphics tablets

	Bamboo Fun	Wacom	www.wacom.eu	£89.99 (small)	Dec 09 ★★★★★ Macworld Editors' Choice
Wacom's multitouch tablet proves to be a very hands-on experience					
Pros: Multitouch functionality is a breakthrough; stylish yet solid build; improved pen sensitivity; native 16:10 aspect ratio support; reasonably priced					
Cons: Multitouch functions require some getting used to; pen no match for higher-spec Intuos4 range; no detachable USB lead					

	Intuos4	Wacom	www.wacom.eu	£199-£699	May 09 ★★★★★ Macworld Editors' Choice
Wacom proves once again why it's in a class of its own					
Pros: Stylish; novel ambidextrous redesign; ultra-responsive ergonomic pen with 2,048 levels of pressure sensitivity; Touch Ring; detachable lead					
Cons: For light users, those on a budget or anyone who doesn't want to delve into customisable settings, the smaller, cheaper Wacom Bamboo range is for you					

	VisTablet Original	VisTablet	www.vistablet.eu	£113.49	Apr 09 ★★★★★☆
Windows-style graphics tablet adds OS X support but loses out on looks					
Pros: Mac friendly with addition of OS X drivers; solid yet slim build; good sized active area; standard 1,024 levels of pen sensitivity; two-year warranty					
Cons: Faces tough competition from Wacom; needs a style overhaul; battery powered pen on the bulky side; initial issues with Mac drivers; USB 1.1					

Laser, inkjet, multifunction, and photo printers

Laser printers



Phaser 7500 Xerox www.xerox.co.uk from £3,171 Feb 10 ★★★★★
Macworld Editors' Choice
 A very capable A3 laser printer for both office users and creatives who want quality colour prints
Pros: Top-notch output, very fast; 1,200 x 1,200 dpi print engine
Cons: Finicky driver; as light and aerodynamically designed as a fridge



C734DN Lexmark www.lexmark.co.uk £515 Jan 10 ★★★★★
Macworld Editors' Choice
 Lexmark's C734DN is an A4 colour laser that offers a nicely balanced performance and a solid build
Pros: Good overall performer; intelligently designed with the user in mind; good quality output
Cons: Extremely noisy in operation



FS-C5350DN Kyocera www.kyoceramita.co.uk £466 Jan 10 ★★★★★☆
 Kyocera's FS-C5350DN is a reasonably fast and economical A4 colour laser, but photo output was a little muddy
Pros: Relatively quick off the mark; sharp text output
Cons: Bonjour disabled by default; port for USB flash drive is inconveniently placed; colour range a little limited

Inkjet printers



Photosmart Pro B9180 HP www.hp.co.uk £567 Sep 09 ★★★★★
Macworld Editors' Choice
 Getting on for three years old, this printer continues to impress with its depth of colour, accuracy and detail
Pros: Both colour and monochrome output superb; Ethernet port; built-in calibration; great price
Cons: Fiddly speciality media tray; the Photoshop plug-in that prevents colour management clashes only lets you print one image at a time



Pixma Pro9500 Mark II Canon www.canon.co.uk £729 Jul 09 ★★★★★☆
 Top-notch A3 photo printer picks up where its predecessor left off
Pros: Best output quality on the market; 16-bit output
Cons: Messy software with one tool missing from the box; Ambient Light Correction is Windows-only; pricey



Stylus Office B1100 Epson www.epson.co.uk £170.62 Online ★★★★★☆
 Oversize output at A3+ for a budget price
Pros: Good colour output, one of the better wide-output printers
Cons: Lacks built-in networking; better for pictures than text

Multifunction devices



Photosmart Plus HP www.hp.co.uk £135.79 Mar 10 ★★★★★☆
 A well-priced colour inkjet multifunction printer for student and home users
Pros: WiFi; impressive printing speeds; sharp, crisp prints
Cons: No automatic duplexing; basic feature set



MFC-9320CW Brother www.brother.co.uk £447.21 Feb 10 ★★★★★☆
 Compact colour printer replaces laser with LED for cheaper prints
Pros: Small footprint; easy WiFi setup; direct printing from USB flash drives
Cons: No automatic duplexing; control panel can be frustrating; some colour print quality issues



Pixma MP990 Canon www.canon.co.uk £235 Feb 10 ★★★★★☆
 The MP990 boasts an automatic duplexer, direct CD/DVD printing, a built-in LCD display and the ability to scan slides
Pros: Comprehensive connectivity; great print quality; easy to use
Cons: Prints slowly; Easy Scroll Wheel can be frustrating; can't print documents from USB flash drives

Dedicated photo printers



Photosmart A646 HP www.hp.co.uk £129 Jan 10 ★★★★★☆
 A nifty little photo printer that prints in three dimensions
Pros: Accepts three photo sizes; 4 x 6in, 4 x 12in and 5 x 7in; good photo enhancement features via LCD including Pet-eye
Cons: No optional battery pack; orange flash tones



Selphy CP790 Canon www.canon.co.uk £136.46 Jan 10 ★★★★★☆
 Portable photo printer disguised as a lime-green lunch box
Pros: Logically labelled and intuitive control buttons; fast printing; good print quality
Cons: High purchase price and oddly designed; wasteful consumables



Selphy CP780 Canon www.canon.co.uk £88 Online ★★★★★☆
 The purchase price is very low, but use it lightly: it's slow, and its ink and paper are pricey
Pros: Inexpensive; easy to use
Cons: Included software is Windows only; slow; clumsy paper-tray design; expensive, wasteful consumables

What to look for in a... DSLR camera

For professional photographers, Digital Single Lens Reflex (DSLR) cameras are the way to go. They offer faster performance and more flexibility, with more adjustable settings than point-and-shoot cameras. And now that many DSLRs feature preset shooting modes, friendly interfaces, and smaller designs, their popularity with casual photographers is growing, too. You can find great DSLRs for under £400. That's still a considerable investment. How do you choose the right one?

Don't be taken in by the megapixel myth. More megapixels doesn't mean better image quality. However, it does give you more flexibility when making enlargements or cropping. Keep in mind that higher megapixel counts also produce larger files, which in turn take up more room on your hard drive.

Be practical. DSLR prices range from £300 to beyond £5,000. If you're new to DSLRs, look for a camera in the sub £500 range. They'll have preset shooting modes you can use while you learn to master the manual settings, and you won't sacrifice much image quality.

Some DSLRs are body-only so you need a compatible lens too. Others ship as part of a kit that includes a multipurpose lens. Kit lenses tend to be relatively slow, meaning you may have trouble getting sharp action shots in low-light situations without a flash.

If you think you'll want to use different lenses for different shooting situations consider the lenses available for the DSLR before you buy the camera.

DSLRs use one of two methods of image stabilisation to offset camera shake. In-lens stabilisation is stronger and produces a stable image in the camera's viewfinder. But, as it's not in the camera itself, you won't get stabilisation with lenses that don't have it built-in. Sensor-based stabilisation corrects subtle camera shake within the camera's body. It's not as strong as in-lens stabilisation and you won't be able to see its effect as you're shooting.

In addition to offering an optical viewfinder, many newer SLRs include a Live View LCD, so you can compose shots via the LCD. Also, if you think you'll be changing lenses often, look for a DSLR with an internal sensor cleaner to keep your image sensor dust free.

Roman Loyola and Ben Long

Macworld Buyers' Guide

Online resources

Macworld reviews

www.macworld.co.uk/reviews

If you want more detailed information on any of the products in this Buyers' Guide then head over to the Macworld UK website (www.macworld.co.uk/reviews/). All the products listed here have a full review with detailed specifications and test information.



Macworld forums

www.macworld.co.uk/forums

Another great way to find out if a product is any good is to head over to the Macworld forums. Lively debate about all things Mac takes place on a daily basis, and you'll find that plenty of advice is handed out for free.



Jargon busting

www.whatis.com

www.acronymfinder.com

We try not to talk gibberish, but the fast-paced world of technology can be confusing at the best of times. If you come across any acronyms you don't know try AcronymFinder (www.acronymfinder.com), or if any terms are baffling then What Is? (www.whatis.com) is a good online computer dictionary.



Input devices, business software, utilities, education

Input devices



SlimBlade Trackball	Kensington	www.kensington.com	£99	Xmas 09	★★★★☆
Ease the pressure on your fingers and wrists with a trackball					
Pros: Easy to use; extra features beyond other trackballs; precision movement and comfortable control					
Cons: Accuracy doesn't match that of a graphics tablet; some modes are confusing; buttons and speed setting can't be programmed; expensive					



Bluetooth Comfort Mouse	Belkin	www.belkin.com/uk	£29.99	Xmas 09	★★★★☆
For Macs with built-in Bluetooth this is an excellent option					
Pros: Comfortable streamlined design; small footprint; good scroll wheel; no wireless dropouts; frees a USB port					
Cons: May be too traditional if looking for an alternative to a standard mouse; requires Bluetooth-compatible Mac					



DiNovo Mac Edition	Logitech	www.logitech.com	£69.99	Jan 09	★★★★☆
A stylish, wireless keyboard designed for use with the MacBook range					
Pros: Stylish and comfortable; lots of programmable function keys					
Cons: Expensive; doesn't include a mouse					

Business software



FileMaker Pro 11	FileMaker	www.filemaker.co.uk	£219	May 10	★★★★★
Database giant gains one new blockbuster addition and some great tweaks					
Pros: Charts; quick find; layout folders; new script triggers and native portal filtering					
Cons: Unless you participate in the FileMaker Server program, upgrades to FileMaker and FileMaker Server aren't free					



FineReader Express	ABBYY	www.abbyy.co.uk	£79	May 10	★★★★★
Say goodbye to tedious retyping, OCR may finally have come of age					
Pros: Admirable speed and precision; sensible pricing; manual selections for text and data cells; supports most image types for input					
Cons: Requires TWAIN-compliant scanner for full compatibility; no OCR solution is 100 per cent accurate					



Bento 3	FileMaker	www.filemaker.co.uk	£29.95; £49.95 (5-user)	Dec 09	★★★★☆
Personal database program adds iPhoto integration and database sharing					
Pros: Multi-user capabilities; 128-bit AES encryption; iPhoto integration; send email to multiple Bento contacts; new templates					
Cons: 'Locked' database not locked on the network; no label printing; limited control over where fields can appear on forms; can't edit any iPhoto metadata					



CrashPlan	Code 42	www.crashplan.com	From free	Apr 10	★★★★★
CrashPlan's online features and ease of use might convince you that it's the only backup tool you'll need					
Pros: Back up local data local, network or online locations; simple configuration					
Cons: Two-tier pricing system for additional features					



Parallels Desktop 5	Parallels	www.parallels.com	£59.99	Jan 10	★★★★★
Impressive upgrade makes it even easier to run Windows programs on a Mac					
Pros: Improved performance; slick interface that makes Windows applications feel more like Mac applications					
Cons: Needs a fast Mac with plenty of memory to run Windows					



Fusion 3	VMware	www.vmware.com	£69.95	Xmas 09	★★★★★
Fusion now brings even closer integration between Mac OS X and Windows					
Pros: Slick interface makes it easy and comfortable to run Windows software on the Mac					
Cons: 3D graphics support is still erratic					

Education



MindManager 8	Mindjet	www.mindjet.com	£186.83	May 10	★★★★☆
Information visualisation tool for planners, analysts and list makers					
Pros: Lots of listing and charting options; integration with third-party applications					
Cons: Can be confusing for first-time users					

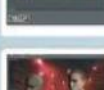


Scrivener 1.5.3	Literature&Latte	www.literatureandlatte.com	\$39.95 (£24)	Nov 09	★★★★★
Scrivener's writing and organisation tools will help you execute large writing projects perfectly					
Pros: Organise research scraps; outline large writing projects quickly; track drafts and revisions					
Cons: None					



Tomboy	Tomboy	http://projects.gnome.org/tomboy	Free	Aug 09	★★★★★
Hyperlink your thoughts together with a tool that automatically indexes notes by keyword					
Pros: Open ended; generate notes on any subject; automatic hyperlinks					
Cons: Deleting notes doesn't delete links — you have to do that manually					

Creative software

	PulpMotion 3	Aquafadas	www.aquafadas.com	£39	Jun 10	★★★★★	Macworld Editors' Choice
The multimedia presentation tool offers faster animation and new templates Pros: Powerful animation tools; media organisation within the application; lots of templates Cons: Difference between Standard and Advanced versions seems like a marketing gimmick							
	Piranesi Pro 2010	Informatix	www.piranesi.co.uk	£495	May 10	★★★★☆	
2D application delivers a 3D punch to become the architect's best friend Pros: Powerful, well-designed interface; versatile and extensive toolset; fast Cons: Not true 3D so has limitations such as lack of lighting from points or skinning for industrial-design projects							
	Acorn	Flying Meat	www.flyingmeat.com	\$49.95 (£31.95)	Apr 10	★★★★★	Macworld Editors' Choice
Who needs bloated old image editors for everyday tasks? Not us Pros: Full complement of bitmap editing tools; layers and filters; save for web Cons: Trial version lasts just 14 days							
	Cinema 4D R11.5	Maxon	www.maxonshop.com/uk	£619	Jan 10	★★★★★	Macworld Editors' Choice
Professional 3D modelling software gets a serious rendering overhaul Pros: Snow Leopard support; streamlined performance; increased rendering speed; enhanced MoGraph; sizeable collection of broadcast assets Cons: Pricey; MoGraph is restricted to controlling gravitational and collision effects for Clones							
	Picasa 3.5	Google	picasa.google.com/mac	Free	Jan 10	★★★★☆	
Google's free photo editing and sharing tool puts the pinch on iPhoto Pros: Extensive feature set rivals iPhoto; free online photo gallery integration; easy photo access and organisation Cons: Some bugginess; editing tools could use improvement							
	Photoshop Elements 8	Adobe	www.adobe.com/uk	£74.75	Xmas 09	★★★★★	Macworld Editors' Choice
Powerful editing features ensure this long-awaited update doesn't disappoint Pros: Strong upgrade provides a host of new features while maintaining its ease of use Cons: Needs a fairly powerful Mac to run smoothly							
	Poser 8	Smith Micro	www.smithmicro.com	£189.99	Dec 09	★★★★☆	
With new content and enhancements, can Poser finally catch up to Daz Studio? Pros: Lots of new content; new morphing tools; new interface/CMS; rendering and texture enhancements Cons: Pricey; some new features are complex without tutorials; some applications crashes							
	Maya 2010	Autodesk	www.autodesk.co.uk	£3,507.50	Dec 09	★★★★☆	
Autodesk brings out the big guns, making Maya one huge animation arsenal Pros: Toxik and Matchmover for comprehensive CG pipeline; stereoscopic workflow; mocap and nParticles in Visor; expression-driven animation layers Cons: Limited range of new features; unified suite expensive for new users; Toxik needs a facelift; more expensive for UK users							
	PhotoTools 2 Lite	onOne	www.ononesoftware.com	Free	Nov 09	★★★★☆	
A tasty free treat from onOne that's definitely worth a download Pros: Quality photo effects; preview, combine, adjust and save effects; selectively apply effects; additional 2.01 update includes HDR effect; free Cons: Only 15 effects out of a possible 181 in the Standard Edition and 293 in the Professional Edition, no Lightroom or Aperture support							
	Toon Boom Studio 5	Toon Boom	www.toonboom.com	\$349.99 (£215)	Nov 09	★★★★☆	
A complete set of animation tools that offers power and ease of use Pros: Intuitive interface, powerful import/export features; 3D camera for complex animations; automatic lip synchronizing; easy to use; affordable Cons: Not a huge upgrade from previous version; premium support and software tutorials cost extra							
	Daz Studio 3 Advanced	Daz 3D	www.daz3d.com	\$499.95 (£306)	Oct 09	★★★★☆	
Upgrade brings this animation software into the professional realm Pros: Fast rendering; good morph and map transfer abilities; extensive shader enhancements; quality content and plug-ins supplied Cons: Currently no support for Mac 64-bit; Shader Mixer still in beta; shaders not supported in Daz Collada							
	modo 401	Luxology Inc	www.luxology.com	Free	Aut 09	★★★★★	Macworld Editors' Choice
modo is an affordable and comprehensive 3D solution for the Mac Pros: Excellent subdivision surfaces; and polygonal modelling; 3D sculpting and painting; Fur, superior rendering and better animation Cons: 3D paint system needs better layers and can be slow; animation limited; no 64-bit support on the Mac							
	QuarkXPress 8.1	Quark	www.quark.com/uk	£779	Aut 09	★★★★☆	
PDF improvements and general workflow enhancements for the DTP stalwart Pros: PDF enhancements including layer export options and native transparency support; better Scaling and Spelling tools; improved content tools; XML import Cons: Some bugs still evident; real-time previews and more interactive tools would be welcome; full price version is fairly expensive							
	Anime Studio Pro 6	Smith Micro	my.smithmicro.com	£146.75	Aut 09	★★★★☆	
An affordable way to achieve professional animation results Pros: Powerful alternative to more expensive software; supports 3D elements; ships with library of assets; lip-syncing Cons: Some may prefer the Studio 6 Debut edition (£39) which offers a lot of the same features for a fraction of the price							
	Genuine Fractals 6 Pro	OnOne Software	www.ononesoftware.co.uk	\$300 (£180)	Aut 09	★★★★☆	
Perennial award-winning Photoshop plug-in proves size does matter Pros: Outstanding results; intuitive interface; advanced controls over texture, sharpening and film grain; CMYK support; works on layers without flattening Cons: Photoshop already includes decent resize tools that will be adequate for many; pricey as a standalone plug-in							

Upgrade your Mac

Sometimes it seems you've not sooner invested your hard-earned cash in a new piece of kit than something faster, sleeker and cheaper hits the market. However, sometimes it's much wiser to resist the urge to buy this year's model and spend relatively little on upgrading...

Memory

Of all the upgrades you could consider for your Mac, perhaps the most cost-effective has to be adding extra memory. If you have too little physical RAM in your Mac it will allocate a larger portion of the hard disk to virtual memory which could slow down your Mac especially if you do heavyweight work in Photoshop. Thankfully, memory is relatively easy to fit. Before you start, check what type of memory your Mac uses by launching System Profiler and clicking Memory. You also need to check how many spare memory slots there are on your motherboard. And don't forget to check how much RAM your Mac can handle. You can read Apple's guidelines here: tinyurl.com/663jft.

Hard drive

Each hard drive enclosure contains a series of magnetised metal platters: 2.5in in diameter for a laptop, or 3.5in for most desktop Macs (with the exception of the Mac mini which uses a 2.5in drive). All hard drives have external connectors for power and data, which attach to the computer's motherboard. Drives are usually categorised by which type of data connector they have: SCSI, ATA, SATA, SAS or PATA. This means that before you replace your hard drive you need to find out what type of connector it has. You can check in System Profiler in Applications > Utilities.

Optical drive

Now might be an appropriate time to be thinking about a Blu-ray DVD burner. Not only will this allow you to watch high-definition (HD) movies on your Mac, assuming you have a suitable monitor, but a Blu-ray disc will hold up to 50GB of data. Most 5.2in internal Blu-ray drives have SATA data connectors so you might also need to invest in a suitable card in order to add internal SATA connectivity.

Macworld Buyers' Guide

What to look for in ... headphones

If you're looking to improve the audio coming from your iPod, iPhone, or Mac, a new set of headphones is probably the most rewarding upgrade you can make. Here's a rundown of the different types.

Earbuds, the type of headphones included with every iPod and iPhone, sit loosely in your outer ears. They don't produce outstanding sound, but are compact and inexpensive.

Canalphones fit snugly (and deep) in your ear canals. Like earplugs, they block most external noise, so they're great for travel and noisy environments. However, some people find them uncomfortable, and many have a high price tag.

Canalbuds sit halfway between earbuds and in-ear-canal headphones and use small rubber eartips that sit just inside your ear canals instead of deep inside them. They are better than earbuds in terms of audio performance and isolation, but fall short of in-ear-canal models in those areas. Canalbuds are more comfortable than canalphones.

Lightweight headphones are portable and reasonably priced. Some have a thin headband that goes over or behind the head; others use a small clip for each ear. Many lightweight headphones produce mediocre sound.

Full-size headphones are an option if you don't mind extra bulk. Good full-size headphones, which often fully surround your ears, generally sound better than good lightweight models. Many are also more comfortable, thanks to generous padding. Full-size headphones fall into two categories: closed and open. Closed models block out some external noise. Open models let noise in and out. One thing to keep in mind: to reach their potential, full-size headphones require more juice than you get from the headphone jack of an iPod, iPhone, or computer.

Noise-cancelling headphones are an option if you're not a fan of in-ear headphones, but you want something that can filter out external noise. These headphones sample outside sound and then pipe in an inverse audio signal to "cancel out" a good deal of monotonous noise. Although noise-cancelling headphones usually don't sound as good as quality canalphones, noise cancellers are easier to put on, and they allow you to hear what's going on around you.

Dan Frakes

Speakers, ear buds, headphones, audio software

Speakers

	Spot	JBL	www.jbl.com	£89.99	Aut 09	★★★★☆
You can customise JBL's Spot with a choice of removable plastic covers Pros: Tiny satellite and subwoofer system with a big, exciting sound Cons: Can be fiddly to set up and use; satellites lack mid-range punch						
	Studiophile AV 40	M-Audio	www.m-audio.co.uk	£109.99	Aut 09	★★★★★ Macworld Editors' Choice
The AV 40 delivers studio quality studio monitors Pros: Fantastic value for money; big box sound; proper studio monitors Cons: You're going to need a bigger desk						
	Z520	Logitech	www.logitech.com	£99.99	Aut 09	★★★★☆
The Z520 sports a convenient front-mounted on/off/volume dial Pros: Easy to set up and use; child-proof metal grille; capable of decent sounds Cons: Sound gets wearing with anything too musically complex						

In-ear headphones

	Image S4	Klipsch	www.klipsch.co.uk	£69.99	Nov 09	★★★★★ Macworld Editors' Choice
Klipsch offers quality and comfort at an affordable price Pros: Crystal clear sound; smart design; very comfortable to wear Cons: Price is at the limits of affordability						
	CX 300-II	Sennheiser	www.sennheiser.co.uk	£40	Online	★★★★★ Macworld Editors' Choice
The base is strong and it's a very clear sound overall, at this price you'll be hard pushed to find a fuller sounding set Pros: Very good sound at a competitive price Cons: Cables are a bit flimsy and prone to tangling						
	SE420	Shure	www.shure.co.uk	£249	Online	★★★★★
Offering two drivers means the SE420's are cheaper than Shure's SE530's, but they still give amazing sound quality Pros: Astonishingly good sound quality Cons: Not at the top of Shure's range, but they are still very pricey						

Over-ear headphones

	PX 210 BT	Sennheiser	www.sennheiser.co.uk	£149.99	May 10	★★★★☆
Sennheiser delivers on a Bluetooth headphone set Pros: Very good audio quality, with the convenience of Bluetooth wireless connectivity Cons: Expensive; iPod nanos and classics will require a Bluetooth adaptor						
	c-Jays	Jays	www.jaysearphones.co.uk	£89.95	Online	★★★★★ Macworld Editors' Choice
The design is basic, but the sound is really strong Pros: Very good sound quality; lightweight; excellent accessory pack Cons: Foam earpieces let sound in and out						
	HA-S650	JVC	www.jvc.co.uk	£79.99	Online	★★★★☆
JVC's Carbon Black series of headphones looks stylish, and the HA-S650 set sounds pretty good too Pros: Really comfortable; neutral and clear sound quality; smart design Cons: Sound could do with a bit more punch; fragile build						

Audio software

	Sound Studio 3.6	Freeverse	www.freeverse.com/mac	\$79.99 (£52)	Jun 10	★★★★★ Macworld Editors' Choice
A full digital recording package that'll suit professionals and amateurs alike Pros: Record high-quality digital audio; core audio support; multitrack features Cons: There's not a lot of difference between versions 3.5.5 and 3.6						
	Amadeus Pro 1.4.5	Hairsoft	www.hairsoft.com	\$25 (£15)	Jan 10	★★★★☆
Amadeus Pro 1.4.5 is a multi-track studio that performs very well Pros: Batch process tunes; multi-track studio-quality recording; VST plug-in support Cons: Fewer filters bundled than Audacity						
	Spotify Premium	Spotify	www.spotify.com.eu	£9.99 (a month)	Jan 10	★★★★★ Macworld Editors' Choice
For a monthly subscription you can remove the adverts from Spotify. Is it worth the money? Yes Pros: Higher-quality streaming; offline playlists; no adverts Cons: Still some significant bands missing – no Beatles or Pink Floyd for example						

Storage, digital life, projectors, monitors

Storage



G-Drive 2TB **G-Technology** www.g-technology.co.uk £254 May 10 ★★★★★
Elegant external drive offers good connections and high speed
Pros: Good range of connection options; blistering speeds using eSATA; stylish, solid build; high capacity
Cons: FireWire 800 write speeds not much faster than USB 2.0; slight disk noise may annoy in the living room



My Book World Edition II **Western Digital** www.westerndigital.com £279.99 (2TB) Feb 10 ★★★★★ **Macworld Editors' Choice**
With a RAID drive, multi-mode interface and even an iTunes server option, this My Book has something for everyone
Pros: Easy to use; compatible with Time Machine; two separate hard drives; RAID mirroring and RAID 0 striping supported; iTunes server option
Cons: No major weaknesses



StorCenter ix2 **Iomega** www.iomega.co.uk £229 (1TB), £317 (2TB) Nov 09 ★★★★★
An affordably priced network drive perfect for small businesses
Pros: Versatile and affordable network drive; basic setup is simple
Cons: Loud fan; poor documentation; no RAID 0

Digital life



Eye-Fi Share Video **Eye-Fi** uk.eye.fi £69.99 Apr 10 ★★★★★ **Macworld Editors' Choice**
A clever SD card that transmits your pictures and video to your Mac wirelessly
Pros: Simple to use; fast wireless transfer; uploads directly to the web
Cons: None



EyeTV DTT Deluxe **Elgato** www.elgato.com £79.95 Jan 10 ★★★★★ **Macworld Editors' Choice**
The smallest, full-featured DVB-T stick available anywhere – for now
Pros: Great picture quality and solid signal; quality EyeTV 3 software; streamlined user interface; lossless recordings; HD TV ready
Cons: Good reception is dependent on signal strength; still need a TV licence for the UK; small USB stick could be easily lost; EPG requires annual subscription



Kindle 2 **Amazon** www.amazon.com \$259 (£180) Jan 10 ★★★★★
Amazon's ebook reader offers fast downloads and a generous 2GB of storage
Pros: Quick, wire-free downloads over 3G; 2GB storage; latest E-ink technology in screen
Cons: Digital editions of newspapers aren't easy to search; few formats supported natively; relies on 3G connection

Projectors



XD221U **Mitsubishi** www.mitsubishielectric.co.uk £469.99 May 10 ★★★★★ **Macworld Editors' Choice**
This 'portable' projector is big, bold and brassy in both looks and image quality
Pros: A great all-rounder, equally capable with slides and movies; easy setup; good picture settings; useful remote; bright enough to see in ambient light
Cons: Big and heavy for a portable; runs hot to the touch; limited controls on unit



EX531p **Optoma** www.optoma.co.uk £470 May 10 ★★★★★
Enjoy big, bright images with lots of detail; you may want to avoid the built-in speaker though
Pros: Compact; easy to carry; good contrast with bright, clear images even in ambient light; good range of picture tweaks and presets
Cons: Pricy; weedy 2W speaker; top-mounted panel controls can be frustrating



PJD5112 **ViewSonic** www.viewsoniceurope.com £325.48 May 10 ★★★★★
Excellent picture quality for the price, and ViewSonic claims it's '3D ready' too
Pros: Good picture quality; mostly easy to set up and use; good range of connections; low noise fan; eco mode; long lamp life
Cons: Native SVGA resolution; raspy sound from weak 2W speaker; fragile front foot

Monitors



MultiSync P221W **NEC** www.nec-display-solutions.co.uk £375 Jun 10 ★★★★★ **Macworld Editors' Choice**
The 22in P221W will keep cash-strapped designers happy as it doesn't compromise on quality, just features
Pros: Good image quality and colour reproduction; sRGB mode
Cons: Maximum resolution limited to 1,680 x 1,050



FlexScan SX2262W **Eizo** www.eizo.co.uk £610 Jun 10 ★★★★★ **Macworld Editors' Choice**
Although it's pricey, Eizo's 22in display boasts an impressive range of features that will appeal to professional users
Pros: Good colour reproduction and controls; sRGB mode; high resolution; good connectivity options
Cons: Quite expensive for a 22in screen



W2353V **LG** www.lge.com/uk £159 Jan 10 ★★★★★
Eye strain-reducing 23in monitor with easy-to-use controls for 'fun' features
Pros: Great movie viewing features; extensive selection of settings; displays sharp colours and text
Cons: Not sufficiently adjustable; strangely named menu options are confusing at first

What to look for in a... multifunction printer

Multifunction printers (also called all-in-one printers or MFPs) combine a printer, scanner, copier, and sometimes a fax machine into a single device. Having all these functions in one unit saves room and can be more affordable. Here are some tips to keep in mind when considering different models.

Inkjet or laser? MFPs use either inkjet or laser technology for printing. Inkjet is ideal for consumers and small businesses with low print demands. Laser MFPs are good for medium to large businesses that print often.

MFPs targeted at businesses print using four colours, which is fine for charts, graphs, and text. Inkjet MFPs that use more than four colours are better for printing photos.

An MFP's price may seem attractive, but factor in the cost of replacement ink or toner over the long term.

How fast can you go? Print speeds are usually rated by how many pages per minute (ppm) a printer can produce. Image quality settings can affect print speeds, and not all manufacturers use the same quality setting. Many manufacturers use speed ratings using draft mode to get the fastest ratings.

Page counts: Most base-model MFPs hold between 100 and 250 sheets of paper. If you will print frequently, consider a unit with a large paper capacity, or additional paper feeders.

A built-in duplexer in an MFP allows you to print on both sides of a page. That can save paper in the long term. However, using the duplexing feature often increases the time needed to print.

What about the scanner: Most MFPs come with a good, general-purpose colour scanner that performs 24-bit scanning. These scanners can handle business documents, charts, and artwork and are suitable for non-professional photos. If you want the highest quality photo scans, consider a separate scanner that can perform 48-bit scans.

If you plan to scan frequently, look for one-button scanning, which lets you scan an item without using the software interface on your Mac. Just place an item on the scanner, press a button on the MFP, and the scan is automatically saved to your Mac.

The scanner on an MFP does double duty as a copier. Look for an automatic document feeder if you want to be able to copy multi-page documents.

Roman Loyola

Could MobileMe ever be worth more than just the sum of its parts?



Andy Ihnatko
www.macworld.co.uk/blogs

"The first time a user realises they are controlling a Mac remotely is like the scene in *Mary Poppins* where the Banks children realise their nanny is the dark mistress of unspeakable mystic powers"

Going Mobile...

The easiest way to stump me is to ask me what MobileMe is and whether it's worth the \$99 (£59 in the UK) annual fee. I usually respond by doing a 'teardown' of MobileMe's features, in the same way that a new iDevice gets disassembled by analysts to work out how much each component part costs.

I'd pay ten bucks a year for the Find My iPhone feature, easily. I'd pay twenty bucks or so for a service that keeps all of my various address books, calendars, keychains, and system settings constantly synced and backed up.

iDisk. Hmm. Well, it depends on how much someone uses cloud storage. If you want to use that aggressively, then you have to compare the cost of iDisk's 20GB of storage with other services' 'premium' levels of support. Dropbox gives you 50GB for \$99 a year. So let's say that iDisk is worth about 50 bucks.

Back To My Mac is a service that promises to make the distance between me and my Mac irrelevant; no matter where I am in the world, I can connect to and control my office iMac through a window on my MacBook and also mount all of my file servers securely. Fab: another 30 bucks a year.

So from my personal perspective, MobileMe is worth well over \$99 a year. And I'm not factoring in any of the features that I never use, such as MobileMe Gallery (I prefer to use Flickr for photo sharing) and my Me.com email address (even if I didn't already have an email address, I'd need a damned good reason not to sign up for a free Gmail account).

Other people might cut up the \$99 MobileMe pie differently but the idea remains that the service consists of a motley collection of features. It's almost impossible to market a service on those terms, particularly when so many features can be countered with the question "Yes, but why wouldn't I just get a free account with [Gmail, Flickr, YouTube, Dropbox] instead?"

From a certain perspective, MobileMe seems like the perfect solution for the world as it was 10 years ago, before those other services existed. From another, though, MobileMe has always been one of Apple's most forward-thinking ideas: the concept of your files and data existing simply, and the implicit expectation that all of your computers and devices should work together with a minimum of human intervention.

Revamp not reinvent

MobileMe doesn't need to be reinvented for the 21st century, just spruced up a little. I have some suggestions.

Every Apple app should also be articulated on MobileMe. If I have an iWork document in my iDisk, I should be able to view and edit it in a web app. I should be able to edit photos and organise pictures into new albums. I want access to my iTunes library; how about hosting a 'virtual iPod nano' on my iDisk?

Obviously, each app will be represented in different forms on MobileMe. But the basic gist is that if I use an Apple app on my desktop, I should expect that Good Things Happen when I save that content onto an iDisk. Apple is a big booster of HTML5 and its ability to create robust, dynamic web apps. Cool. Show me a working (if limited) version of iPhoto, iTunes, and Pages on the web and clear space on your chest for a flurry of medals.

Back To My Mac should Just Work. This feature demonstrates that Apple sometimes allows a half-baked feature to leave the kitchen. When you try to make Back To My Mac work across the internet, it's just as reliable as it is when you're using it on your home network. You can count on it not working.

It's heartbreaking. It's a feature that could make life much easier. Moreover, it's not a subtle thing that's gradually grasped. The first time a user clicks a button and realises that they're controlling another Mac remotely is like the scene in *Mary Poppins* when the Banks children realise that their new nanny is the dark mistress of unspeakable mystic powers and that a violent reckoning on their schoolyard foes is now at hand.

My \$99 (£66) Pogoplug device (which turns any USB hard drive into network-attached storage) mounts on my desktop no matter where I go. Does Apple need these engineers?

iDisk should be integrated into the iPad and the iPhone. And not via an App Store download. The iPad is a cloud storage dream machine. With the Dropbox app installed, the iPad becomes a portal to desktop data that requires no maintenance or syncing. A half an hour after downloading the new app, I upgraded my Dropbox membership. That's how transformative a really well-considered cloud storage service is on a tablet.

Missing (several) tricks

Why is Apple creating an opportunity for other companies? By owning the desktop OS, the mobile device, and the cloud service, Apple could at one stroke elevate MobileMe into the indispensable add-on for its mobile users. All it would take is an app that does for the iPad what the Finder does for the Mac: act as the central concierge for all files coming in and out, and connect every app to every appropriate file type.

Add social features. iDisk already supports public folders. But I want MobileMe to understand the relationships I have with many fellow users. I'm perfectly OK with allowing some of my calendars to be viewed by any MobileMe user I've designated as a Family member. I'd even be pleased if Find My iPhone became a Find Me feature (so long as I can quickly turn it on and off directly from the device as needed).

Change the name to simply M.com. This has been the orderly and natural progression of the service. When it went from Mac.com to Me.com, Apple proudly pointed to the 33 per cent increase in throughput in typing the subdomain. By changing it a second time, Apple can claim a 50 per cent additional speed-up, merely the latest example of delivering high-performance solutions with each new iteration.

Apple shouldn't be ashamed of maintaining control and power over their products. It should only be ashamed if it doesn't exploit the hell out of both to produce the best possible experience for users. That's the transaction of being an Apple user and it's as real as being part of its official Terms of Use.

If MobileMe were a service from Google, there'd be nothing particularly wrong with it. As an Apple service it feels at times as though I'm paying the Apple Premium and getting nothing in return. **MW**



Images © Enrique Rueda - www.amscenes.com

Easy-to-use 3D Modelling, Painting, Rendering & Animation Software

Introducing CINEMA 4D R11.5 Architecture Edition

Want to create realistic architectural visualisations the easy way? Then try CINEMA 4D Architecture Edition, for Windows and Mac.

This special version of CINEMA 4D contains everything you need to create jaw-dropping 3D stills and animations.

Import models from other CAD applications such as VectorWorks, Allplan and ArchiCAD and bring them to life with CINEMA 4D's powerful arsenal of preset objects and materials. Or create the models directly in CINEMA 4D. Includes sketch rendering and Global Illumination.

► Download the demo today at www.maxon.net



MAXON

3D FOR THE REAL WORLD

www.WorldMags.net & www.aDowns.net

WWW.MAXON.NET



A Single 3G Mobile Broadband connection
for your MacBook Pro, iPod touch & iPad



Why should you buy multiple SIMS with differing contracts simply so you can connect more than one device to the internet? Visit our web site to watch a short film about how a mobile Wi-Fi /3G Portable router might save you money and at the same time provide the most flexible solution for your Macbook Pro, iPod touch or iPad. Alternatively, visit any of our 6 retail stores or simply give us a call to speak to a wireless expert.

www.solutions-inc.co.uk

0844 8751 610

MacBook Pro, iPod touch and iPad are all registered trademarks of Apple inc. All rights reserved.

www.WorldMags.net & www.aDowns.net