Amazing Mindows Timesavers

The 100 Best Products of 2010

Find files faster
 Annihilate annoyances
 Boost your browser
 Get more done p.74

THE YEAR'S HOTTEST HDTVs

Our top 15 picks in flat-screen TVs, plus the specs that matter & the hype that doesn't p.103



INTRODUCING TREND MICRO[™] TITANIUM[™]

It's a whole new way to protect your PC. Unlike other security software Titanium stops web threats in the cloud before they reach you. The result is better protection that uses less memory so it won't slow your PC down. Simply put, nothing comes close.

Titanium is Ranked #1 for Performance and Protection*

- Always-on protection
- · Easy to install and use
- Faster computing speeds
- Antivirus/Anti-spam
- Parental controls
- No annoying alerts

Get it now at: trendmicro.com/GetTitanium

* Based on data from independent lab tests. See details at trendmicro.com/GetTitanium

© 2010 Trend Micro, Inc. All rights reserved. Trend Micro and the t-ball logo are trademarks or registered trademarks of Trend Micro, Inc.





amazon.com









PCWorld

DECEMBER 2010 Volume 28 • Number 12 • pcworld.com



» REVIEWS AND RANKINGS

- 46 Cut the Landline Cord Four free or low-cost alternatives to your traditional phone service.
- 52 Sony Reader Pocket Edition
- 54 Top 10 Inkjet MFPs
- 56 HP Envy 17
- 58 Top 10 Budget Desktop PCs
- 62 Top 10 Ultraportable Laptops
- 72 Download This



» HERE'S HOW

- 117 Update Your Device Firmware Software upgrades aren't just for PCs. Keep all your gear current.
- 126 Answer Line
- 128 Rick Broida's Hassle-Free PC

» FEATURES

74 Make Windows Smarter These 55 tips for Windows 7 will supercharge your PC productivity, allowing you to accomplish more in less time.

86 The 100 Best Products of 2010



From the finest smartphones and mobile apps to the best Websites, PCs, and electronics, icks for the top

here are our picks for the top devices and services of the year.

103 The Hottest in HD

We look at the state of the HDTV set as 2010 winds down, and find winners in three screen-size categories, from 40 to 55 inches.



» DEPARTMENTS

5 Techlog

- 6 PCW Forum
- 132 The Back Page

» FORWARD

- 10 Kill Your Cable, If You Dare Set-top boxes and streaming video sites are on the rise.
- 19 Beta Watch
- 21 GeekTech

» CONSUMER WATCH

- 23 Beyond PayPal Online personal payment services.
- 24 Skeptical Shopper
- 26 On Your Side

» BUSINESS CENTER

- 29 Videoconferencing Options Graduate from Skype and move up to a telepresence system.
- 30 Net Work
- 32 Tech Audit

» SECURITY ALERT

- 41 Resurgent Adware Devious ad-oriented software finds new life on social networks.
- 42 Bugs and Fixes
- 44 Privacy Watch

WHAT WILL YOU DO FIRST WITH EVO, THE FIRST 4G PHONE?

America's first 4G phone is also the first to deliver download speeds up to 10x faster than 3G and is a mobile hotspot for up to eight Wi-Fi enabled devices.

sprint.com/firsts



The Now Network"



htc EVO~4G

Speed cliam based on obwinded spiket comparison of XG's BOX Rope vs. 4G's 6 Micro. Houling publiket 3G average (spiket) (ROX Rope -17 Moop) 4G average (spiket) 6-6 Micro. Actual topologi may visor (y brain or based on of the lacton, 4G is evaluable in 55 marticle. Optional add on inquired to system access to incide incident. Spiket Actual topologi add on inquired to system access to incide incident. Spiket Actual topologi add on inquired to system access to incide incident. Spiket Actual topologi and the spiket access to incide incident. Spiket Actual topologi add on inquired to system access to incide incident. Spiket Actual topologi add on inquired to system access to incide incident. Spiket Actual topologi add actual access to a spiket access t



CONTACT INFORMATION

415/243-0500 FAX: 415/442-1891

E-MAIL:

letters@pcworld.com MAIL: PCWorld Editorial

501 Second St. #600 San Francisco, CA 94107

STAFF E-MAIL ADDRESSES: To contact any *PCWorld* staff member, simply format the address as follows: firstinitiallastname@ pcworld.com

OTHER WAYS TO READ

PCWORLD RSS: pcworld.com/

resource/rss.html COMMUNITY:

forums.pcworld.com

peworld.com/ newsletters

@pcworld FACEBOOK:

find.pcworld. com/60983 WIDGET: pcworld.com?

resource/widget.html



VP. EDITORIAL DIRECTOR Steve Fox EDITOR Edward N. Albro EXECUTIVE EDITOR Robert Strohmeyer MANAGING EDITOR Kimberly Brinson

EDITORIAL

SENIOR EDITORS Jason Cross, Anne B. McDonald, Tim Moynihan, Melissa J. Perenson, Melissa Riofrio, Tom Spring, Mark Sullivan

SENIOR ASSOCIATE EDITOR Elsa Wenzel ASSOCIATE EDITOR Ginny Mies

ASSISTANT EDITOR Nick Mediati

STAFF EDITORS Patrick Miller. Nate Ralph

DOWNLOADS EDITOR Laura Blackwell NEWSLETTER EDITOR Kim Saccio-Kent

SENIOR COPY EDITORS Stephen Compton, Steven Gray, Tracy Yee-Vaught

EDITORIAL ASSISTANT Alex Wawro

EDITORIAL INTERNS David Daw, Brent W. Hopkins

ART AND DESIGN

DEPUTY ART DIRECTORS Jeff Berlin, Beth Kamoroff

DIGITAL IMAGING SPECIALIST/ PHOTOGRAPHER Robert Cardin

PREPRESS COLOR IMAGING SPECIALIST Marianna Whang

CONTRIBUTING EDITORS

Danny Allen, Yardena Arar, Rick Broida, Scott Dunn, Stuart J. Johnston, Erik Larkin, Stephen Manes, James A. Martin, Harry McCracken, Aoife M. McEvoy, Marla Miyashiro, David Murphy, JR Raphael, Scott Spanbauer, Lincoln Spector, Kirk Steers, Carla Thornton, Dan Tynan, Robert Vamosi, Peggy Watt

PCWORLD LABS

SENIOR LAB MANAGER Jim Galbraith

MANAGER OF BENCHMARK DEVELOPMENT James Motch

DEVELOPMENT ANALYSTS Thomas Luong, William Wang INTERN Armando Rodriguez

COMMUNITY

MODERATORS Richard Green, Michael-Paul Higgins, Charlie Spivey

MAILING LISTS

Occasionally we make our subscribers' names available to other firms whose products may interest you. To have your name excluded from these mailings, send a request and your mailing label to PCWorld Subscriber Services, P.O. Box 37571, Boone, IA 50037-0571, or e-mail us at maghelp@pcworld.com.

REPRINTS AND PERMISSIONS

You must have permission before reproducing any material from *PCWorld*. Send e-mail requests to permissions@ pcworld.com; please include a phone number in your message.

PCW COMMUNICATIONS

PRESIDENT, CEO Mike Kisseberth SENIOR VP, COD/CFO Vicki Peilen EXECUTIVE VP, GENERAL MANAGER, ONLINE Stephan Scherzer VP, HUMAN RESOURCES Kate Coldwell

FOUNDERS

FOUNDER David Bunnell FOUNDING EDITOR Andrew Fluegelman

INTERNATIONAL DATA GROUP, INC.

CHAIRMAN OF THE BOARD Patrick J. McGovern CEO, IDG COMMUNICATIONS

Bob Carrigan

SUBSCRIPTION SERVICES

Access your subscription account online—24 hours a day, 7 days a week at poworld.com/customer. You can use online subscription services to view your account status, change your address, pay your bill, renew your subscription, report a missing or damaged issue, get the answers to frequently asked questions, and much more.

MAIL: PCWorld Subscriber Services, P.O. Box 37571, Boone, IA 50037-0571 (Include a mailing label with correspondence.)

WEB: poworld.com/customer

E-MAIL: maghelp@pcworld.com (Send your full name and the address at which you subscribe; do not send attachments.)

PHONE: In the U.S. 800/234-3498 New orders 800/825-7595 FAX: 515/432-6994

If the Postal Service alerts us that your magazine is undeliverable, we have no further obligation unless we receive a corrected address within one year.

QUESTIONS AND COLUMNS

Send material electronically to the appropriate online address listed below, or mail it to *PCWorld*. We reserve the right to edit letters.

ANSWER LINE: Visit forums.peworld.com to ask your question in the Answer Line forum.

ON YOUR SIDE: onyourside@pcworld.com

PCW FORUM: forums@pcworld.com RICK BROIDA'S HASSLE-FREE PC:

hasslefree@pcworld.com

THE BACK PAGE: thebackpage@pcworld.com

BACK ISSUES

Starting with the March 2003 issue of PCWorld, back issues are available at poworld com/backissues. Back issues cost 88 per issue for U.S. delivery, and \$12 for international delivery, prepayment in U.S. currency to PCWorld is required. Or send a check or money order to PCWorld Products, P.O. Box 37781, Boone, IA \$0037-0781; phone 800/967-2083 (U.S. and Canada) or 515/243-3273 (all other locations); or e-mail mw1prod@ cdsfulfillment.com,

To use any find.pcworld.com/xxxxx URL in the magazine, enter it as shown in your browser's address field.

Being competitive starts with being productive. Here's your edge.

To help your business be more productive, the IBM® System x3650 M3 Express® server, featuring the Intel® Xeon® processor 5600 series, can help you achieve up to 40% increased performance! With more storage and memory capacity, it is now possible to access and process more data than ever before—helping you to efficiently meet your increased business demands.



IBM System x3650 M3 Express \$3,229

or \$83/month for 36 months2

PN: 7945-E2U

2U dual-socket server leaturing up to 2 Intel[®] Xeon[®] processor 5600 series Energy-efficient design, 92% efficient PS 3 HS fan modules, altimeter

IBM System x3550 M3 Express

\$1,969 or \$51/month for 36 months²



PN: 7944-E1U 1U dual-socket server featuring up to 2 Intel[®] Xeon[®] processor 5600 series Energy-efficient design, 92% efficient PS 6 HS fan modules, altimeter

See for yourself.

See how much you could be saving – in just minutes – with the IBM Systems Consolidation Evaluation Tool.

ibm.com/systems/productivity 1 866-872-3902 (mention 6N8AH30A)

IBM System Storage® DS3500 Express

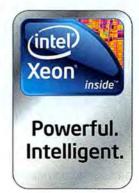
\$8,799 or \$226/month for 36 months²



PN: 1746-A2D or 1746-C2A

Dual controller storage system with 2 GB cache, four 6 Gb SAS host attachment ports and 12 3.5-inch SAS disk drive bays.

Hased on Intel Engineering Study, January 2010 - performance increase companing latest Intel Xeon processor 5600 series to previous generalion - Intel Xeon processor 5500 series. See page 8. Iodinale 3 for more information: http://www.intel.com/ksele/PDF/product/32/S01 pdf. Global Financing otherings are provided through IBM Credit LLC in the Unlead States and other IBM subsidiaries and divisions works/wide to qualified commercial and government customers. Monthly payments provided are for planning purposes only and may vary based on your credit and other IBM factors. Less other other IBM subsidiaries and divisions works/wide to qualified commercial and government. Content sphere to change, extension or withdrawal without notice. IBM factors. Less other provided to based on an FMV fease in 36 monthly payments. Other restrictions may apply, Rates and otherings are subject to change, extension or withdrawal without notice. IBM faultance products are manufactured from new parts or new and serviceable used parts. Regardiesc, our warranty terms apply. For a copy of applicable product warrantes, visit http://www.itm.com/services/support/machine_warrantes. IBM makes no representation or warranty regarding throu-party products or services. IBM, the IBM logs, System Sterage and System vare episoned frandemarks or trademarks. Journal of their Dorporation in the United States and/or either econtriles. For a complete total Trademarks, see www.itm.com/seavices/support/machine_warrantes. IBM make no representation or warranty regarding throu-party products may be trademarks, see www.itm.com/seavices/seavice



TRM

Performing at the speed of life. Samsung PC Memory.





That's the Wonder of Samsung.

Whether it's a top-priority presentation or the highest level on your favorite game, now you can be equipped for maximum performance. Instantly, Efficiently, Samsung DDR3 PC Memory arms you with 40nm technology for optimum speed, yet uses a stunning 47 percent less power. Because when life moves this fast, so should you. Another way Samsung is Dedicated to Wonder.



samsung.com/memory

©2010 Samsung Electronics America, Inc. Samsung is a registered trademark of Samsung Electronics Corp., Ltd. *Max savings compared to conventional DDR3 using 60nm technology.



Editors Duke It Out Over Best Products List

I LOVE THE end of the year: cool, crisp weather; slow work days, and even slower vacation days; and inevitably, a hefty slate of "Best of" lists that put a punctuation mark on the year that was.

Here at *PCWorld*, we're doing our part with our annual "100 Best Products of the Year" (page 86), celebrating the ground-breaking sites, services, hardware, and software that made 2010 a banner year in tech.

What constitutes a "best" product? To start with, the candidate needs either to have been launched in the last year or so, or to have introduced a major new feature or upgrade during that span.

Second, the product itself must truly stand out. It should be a wellthought-out, relatively bug-free implementation that lets users do something they couldn't do before, or do it better.

Third (and this is the real kicker), the

We've picked the year's most influential products; now it's your turn. Cast your votes for the People's Choice Top 5 of 2010.

truly wonderful product should be a leader. It should offer a glimpse into the future of computing and point the way for a host of innovations to follow.



A product that nails all three of these criteria is a cinch for the top ten. The *PCWorld* editors, corralled by Senior Editor Anne B. McDonald,

WHAT IT TAKES TO TEST

How Much Can You Spend on HDTV?

WHAT WOULD YOU do if your boss handed you a credit card and told you to spend, spend, spend? That's what happened to *PCWorld*'s HDTV specialist, Staff Editor Patrick Miller, when he was working on this month's big HDTV review ("The Hottest in HD," page 103).

And spend he did, ultimately dropping nearly \$15,000 on a passel of new HDTVs, including the 55-inch Samsung behemoth shown at right.

You see, in the normal course of



OUR LAB GUYS (no, that's not them on screen) got to watch TV on a Samsung UN55C8000.

evaluating products, manufacturers send us hundreds of PCs, cameras, and the like for review. We put the units through their paces and then send them back. TVs, though, are big-ticket items; vendors are reluctant to part with review units, even for short stretches, which left us about a dozen TVs short. So Miller compiled a wish list of HDTVs for review and took to the Internet on a shopping spree, American Express card in hand.

Shortly thereafter, a bevy of flat-screen beauties arrived in our labs. The best news: We're allowed to keep 'em, even after testing. So much for getting any work done. selected this year's winners over grueling meetings, e-mail exchanges, and one final marathon session. "The toughest part of this job," says McDonald,

> "is informing editors that all 42 of their pet picks won't make the final cut. The arguments get heated."

As we zeroed in on our 100 top choices, several themes emerged. Obviously mobility is this year's breakout trend, meaning that smaller, portable devices—and the software and services that make them work—dominate our list. Today's smartphones have more processing power than the full-

scale PCs of just a few years ago. What a delight it is to carry around a fullfledged computer in your pocket...and not have your pants fall down.

We've also seen an explosion of apps and services, often based in the cloud. This trend, presaged by last year's number one pick, the Apple App Store, has accelerated in 2010. Expect more of same in the coming years.

Finally, despite all of the justified mobile hoopla, mainstream hardware isn't dead. Plenty of PCs, notebooks, and the like are sprinkled throughout our list. Competence matters, and these mature categories show it.

Time to Have Your Say

Agree with our picks? Think you could do better? Go to our Facebook app at pcworld.com/top5, and vote for your faves. We'll recognize the top vote-getters as the People's Choice Top 5 of 2010. And with any luck, Anne McDonald won't come knocking on your door demanding that you rethink your decision.

Steve Fox is editorial director of PCWorld.

PCW Forum

Visitors to PCWorld.com responded, sometimes passionately, to "Don't Be Blinded by 'Gadget Lust'," which described how people can be daz-



zled by new gizmos and make poor decisions when buying gear. Have your own thoughts on 'gadget lust'? Add your comments at the Find-It number below.

'Gadget Lust'

Your online article "Don't Be Blinded by 'Gadget Lust'" (find.pcworld.com/ 70917) was good, though unanticipated on a tech site like yours. It's true that advertisers and marketers are always promising things that they really can't deliver—happiness, success, popularity. In reality, they're just selling stuff. The glow doesn't last long, and the gadget will soon be obsolete anyway. Unless you really need the device for your business or studies, in my experience it's often best to just wait until the urge to buy goes away. Instant savings! *preilly2, PCWorld.com forums*

When I bought my iPad, I wanted three things from it: good e-mail service, the digital *Wall Street Journal*, and my stock-trading software.

The WSJ app was okay, but it added a lot of expense on top of what I already paid for Web access, and it wasn't as good or as timely as the Web page. E-mail was horrible without access to a file system—no real way to deal with attachments. The stock-trading app was the only thing it did well. But then, my EVO phone does this equally as well. So the iPad went up on eBay.

Quant, PCWorld.com forums

I can agree with this article. I used to be a tech nut, especially in the days when I was into video games. Ever since I purchased an Atari 2600 at a garage sale, I have bought and owned every game console up until the first PlayStation.

Now it's the cell phone buzz—I purchased three new phones in less than six months (and tried out others).

It's easy to get caught up in that tech frenzy and hard to get out sometimes. It's as addicting as drugs can be.

Quadicon, PCWorld.com forums

No Free Apps?

None of the apps in October's "101 Essential Apps" are truly free. You pay a consideration in the form of the information you agree to provide via the app, such as usage statistics, browsing history, network information, client information, location, and so on.

So to imply that any of the apps are "free" is misleading at best. Sure, we expect Yelp to access our position via GPS, but why would I allow a child's finger-painting app to access my personal contact information? Point being, people may want to make informed decisions about the value of an app in light of the information it harvests.

Jim Preis, Cary, North Carolina

AWOL: Customer Service

I'm always amazed when I read the On Your Side column. Somebody has an issue with a company, an issue the company refuses to resolve in a satisfactory manner, whether it's a rebate that is rejected due to a silly paperwork requirement, or a defective part that needs to be replaced. Then PCWorld steps in, contacts the company, and poof?—the problem is usually solved to the satisfaction of the consumer.

I wonder why companies refuse to be more flexible and compassionate with their valuable customers. If I ever have a similar type of issue and am treated in such a manner by a company, I am usually done with that firm forever.

I don't know about the electronics

Most points [in 'Gadget Lust'] apply to our entire consumeroriented society, where people are convinced that buying more stuff will make them happy. *skanter, PCWorld.com forums*

business in general; but in my business, it's less expensive to keep a customer satisfied than it is to win them back or to find a new customer.

C. Painter, Burlington, Kentucky

Regarding the online article "Overheating Laptop: A Personal Story" (find. pcworld.com/70918): Even without the waiting and waiting, and the rigid checklists reps work with, support calls can probably never be happy experiences. Say you end up getting a replacement device from the company—you've still experienced aggravation [from the original's problems], lost use of the original device, and then suffered through the process that got you the replacement. And then you're only back to where you were in the first place!

reor, PCWorld.com forums >>

Booming is using your Card's Early Pay Discount to open a new retail store.



frime Cor KRISTEN COX | CHECKPNT.COM | MEMBER SINCE 02

The Plum Card[®] from American Express OPEN gives Kristen Cox a 1.5% Early Pay Discount OR a Defer Pay Option each month.

E164469

From LAN wires to wireless services, Kristen Cox puts all the expenses for her growing company on the Plum Card. It lets her choose each month between getting the 1.5% Early Pay Discount or getting up to 2 months to pay without interest. Kristen chooses the discount each month and gets thousands back for her business. Money that has let her open a new location — without taking on debt.



LAN CAPILING



ER73604 E116

1-866-620-PLUM open.com/plum

Pay your balance in full within 10 days of the statement closing date and get a 1.5% discount on virtually all purchases made that month. The discount will appear as a credit on the following billing statement. Pay 10% of the balance from new activity on your billing statement plus the entire amount of any previously deferred payment or amounts past due by the "Please Pay By Date" on that statement and you can extend payment on the rest until the closing date of your next billing cycle without penalty. Visit open.com/plum for details. ©2010 American Express Bank, FSB. All rights reserved. P08

Legal Notice

Legal Notice

If you purchased certain models of notebook computers containing an NVIDIA graphics processing unit or media and communications processor, you could be entitled to benefits under a class action settlement.

The United States District Court for the Northern District of California, San Jose Division, authorized this Notice. This is not a solicitation from a lawyer.

GPU Litigation, Case No. 08-cv-04312-JW) relates to the NVIDIA chips inside certain Dell, Hewlett-Packard ("HP"), and Apple notebook computers. The lawsuit claims that NVIDIA sold defective Graphics Processing Units ("GPU") and Media and Communications Processors ("MCP") that affected the performance of some of the notebook computers in which they were incorporated. NVIDIA denies all allegations of wrongdoing and has asserted many defenses. The settlement is not an admission of wrongdoing.

Who is Affected by this Class Action?

All United States residents who purchased in the United States a version of one of the Dell, HP or Apple notebook computer models listed in the Table of Class Computers. These individuals are referred to as "Class Members" in this Notice.

What Can You Get From the **Proposed Settlement?**

Class Members who file an approved claim will be entitled to:

1. Replacement of the NVIDIA graphics processing unit or media and communications processor, which are referred to in this Notice as the "chips" if you purchased a version of certain models of notebook computers manufactured M by Dell, Inc. or Apple Inc. containing one of the De NVIDIA chips; or D

2. A Replacement notebook computer De similar in kind and value if you purchased De a version of certain models of notebook D computers manufactured by HP containing one of the NVIDIA chips; or

3. Reimbursement of amounts paid D for repairs related to problems with the NVIDIA chips. NVIDIA will fund \$2 million D from which reimbursements will be made. The amount paid may depend on the number of D reimbursement claims received.

NVIDIA is providing these benefits to members of the class, and is funding the settlement. Dell, HP and Apple are not parties to this lawsuit.

How Do You Receive a Benefit?

You must first qualify for filing a claim, and then file an approved claim with supporting documentation during the Claim Period. To qualify for a replacement as described in numbers 1 and 2 above, your notebook computer must be one of the Dell, HP or Apple notebook computer models listed in the Table of Class Computers, contain an NVIDIA MCP or GPU, and be exhibiting one of the symptoms listed in the Full Notice. To qualify for a reimbursement as described in number 3 above, your notebook computer must be listed in the Table, contain an NVIDIA MCP or GPU, and must have been repaired because it was exhibiting one of the symptoms listed in the Full Notice. The Claim Period will begin after the Court grants final approval of the Settlement. Whether or not the Court has granted final approval, the Claim Period dates and further instructions for how to qualify and file a claim will be posted at the Settlement Website and at the toll-free telephone support line shown at the bottom of this Notice.

Register Your Email Address To Receive an Alert When the Claim Period Begins.

To receive an email alert when the Claim Ap

www.NVIDIASettlement.com

A settlement of a class action lawsuit (The NVIDIA Period begins, between now and December 20, 2010, visit www.NVIDIASettlement.com and register your email address. If you previously received an emailed notice about this settlement, there is no need to register.

The Final Approval Hearing.

The Court will hold a hearing in this case (The NVIDIA GPU Litigation, Case No. 08-ev-04312-JW) on December 20, 2010, to consider whether to approve the settlement and attorneys' fees and expenses in the amount of \$13 million. You may appear at the hearing, but you don't have to. For more details, see the Full Notice, call toll-free 1-877-440-7557, go to www.NVIDIASettlement. com, or write to NVIDIA GPU Litigation Settlement Administrator, P.O. Box 6177, Novato, CA 94948-6177.

This is only a summary of the Full Notice. Please visit www.NVIDIASettlement.com or call 1-877-440-7557 to obtain a copy of the Full Notice.

Table of Class Computers

The following notebook computer models are included in the settlement if they contain an NVIDIA GPU or MCP and were purchased in the time period corresponding to each Product Identification Number

MFR.	PLATFORM NAME	PERCHASE DATE RANGES
Dell	Inspiron 1420	May 2007 - September 30, 2008
Dell	Inspiron 9400/E1705	March 2006 - February 28, 2010
Dell	Latitude D620	December 2005 - November 30, 2008
Dell	Latitude D630	February 2007 - September 30, 2008
Dell	Latitude D630c	February 2007 - September 30, 2008
Dell	Latitude D820	November 2005 - March 31, 2008
Dell	Latitude D830	March 2007 - September 30, 2008
Dell	Precision M2300	August 2007 - September 30, 2008
Dell	Precision M4300	March 2007 - September 30, 2008
Dell	Precision M6300	December 2007 - March 31, 2009
Dell	Precision M65	November 2005 - January 31, 2008
Dell	Vostro 1700	March 2007 - September 30, 2008
Dell	Vostro Notebook 1310	December 2007 - September 30, 2008
Dell	Vostro Notebook 1400	May 2007 - September 30, 2008
Dell	Vostro Notebook 1510	December 2007 - September 30, 2008
Dell	Vostro Notebook 1710	January 2008 - July 31, 2008
Dell	XPS M1210	March 2006 - November 30, 2008
Dell	XPS M1330	March 2007 - September 30, 2008
Dell	XPS M1530	September 2007 - January 31, 2009
Dell	XPS M1710	March 2006 - February 28, 2010
Dell	XPS M1730	November 2007 - January 31, 2009
HP	Compaq Presario v30xx	March 2006 - October 31, 2008
HP	Compaq Presario v31xx	March 2006 - October 31, 2008
HP	Compaq Presario v32xx	March 2006 - October 31, 2008
HP	Compaq Presario v32xx	March 2006 - October 31, 2008
HP	Compaq Presario v34xx	March 2006 - October 31, 2008
HP	Compaq Presario v60xx	May 2006 - October 31, 2008
HP	Compaq Presario v60xx Compaq Presario v61xx	May 2006 - October 31, 2008
HP	Compaq Presario vorxx Compaq Presario v62xx	May 2006 - October 31, 2008
HP	Compaq Presario v63xx	May 2006 - October 31, 2008
HP	Compaq Presario v64xx	May 2006 - October 31, 2008
HP	Compaq Presario F500	October 2006 - September 30, 2008
HP	Pavilion dv20xx	March 2006 - December 31, 2008
HP	Pavilion dv21xx	March 2006 - December 31, 2008
HP	Pavilion dv21xx Pavilion dv22xx	March 2006 - December 31, 2008
HP	Pavilion dv23xx	March 2006 - December 31, 2008
HP	Pavilion dv24xx	March 2006 - December 31, 2008
HP	Pavilion dv60xx	May 2006 - April 30, 2009
HP	Pavilion dv61xx	May 2006 - April 30, 2009
HP	Pavilion dv62xx	May 2006 - April 30, 2009
HP	Pavilion dv63xx	May 2006 - April 30, 2009
HP	Pavilion dv64xx	May 2006 - April 30, 2009
HP	Pavilion dv90xx	May 2006 - November 30, 2008
IIP	Pavilion dv90xx	May 2006 - November 30, 2008
HP	Pavilion dv92xx	May 2006 - November 30, 2008
HP	Pavilion dv95xx Pavilion dv94xx	May 2006 - November 30, 2008
HP	Pavilion tx1xxx	March 2007 - May 31, 2008
Apple	MacBook Pro (15-inch)	May 2007 - September 2008
Apple	MacBook Pro (17-inch)	May 2007 - September 2008

1-877-440-7557

PCW Forum

E-Readers vs. the iPad

Regarding "The E-Reader Wars" [October]. I hate trying to read on the dedicated readers. The iPad has a much nicer reading experience. The electronic-ink hardware manufacturers all talk about how much easier it is to read on their devices in bright sunlight. That is all well and good, but the devices stink where I do most of my reading-in dim rooms where the LCDs shine (literally). GeordicKorper, PCWorld.com forums

Electronic ink is much easier on my eyes when it comes to reading for extended periods. I tried the iPad, and after about an hour I couldn't take it anymore. Not sure why ... maybe the problem is too much contrast, or maybe it's the fact that I'm staring into a light for an hour?

I hope that the dedicated readers stay dedicated readers. I find it too easy to get distracted on a multifunction device. I don't want things like e-mail, Web browsers, games, or Facebook clamoring for my attention when I read. gundark, PCWorld.com forums

I chose a Barnes & Noble Nook over an iPad, and I couldn't be happier. The latter is a cool toy but is definitely not worth \$500. For one thing, it has no card slot, and it is not expandable.

> CarmaleeGierScarpitti, PCWorld.com forums

PCWorld welcomes your feedback. We reserve the right to edit for length and clarity. Share your thoughts in the Comments area under each story on our Website, or visit our Forums (find.pcworld.com/55165). Send e-mail to letters@pcworld.com. ●

CORRECTION

IN OCTOBER'S "TECHNOLOGY'S Biggest Myths," we should have designated the Blue Jeans Cable product (mentioned in the section on high-priced HDMI cables) as the Tartan 28AWG HDMI cable, and listed its price as \$3.60.

Fujitsu recommends Windows®7 Professional.

WEEKLY TEAM MEETING

. OVERVIEW 2. MONTHY FIGURES

3. QUOTAS

4. MARKETING IDEAS

AGENDA

LIFEBOOK TABLET PC. **STAY IN TOUCH.**

LIFEBOOK T900 TABLET PC YOUR ULTIMATE MOBILE MEETING TOOL

The LIFEBOOK® T900 is an ultra-versatile lightweight tablet PC for the professional user. With the Intel® Core™ i7 processor, intelligent performance meets ultimate mobility. When teamed with Genuine Windows® 7 Professional, you'll be able to stay connected, stay productive and stay in touch. With the LIFEBOOK® T900 multi-touch you can either work with your fingers or with the patented multifunctional pen.

www.shopfujitsu.com

Copyright @2010 Fujitsu America, Inc. Fujitsu, the Fujitsu logo and LIFEBOOK are trademarks or registered trademarks of Fujitsu Limited in the United States and other countries. Intel, the Intel logo, Intel Inside, Intel Core and Core Inside are trademarks of Intel Corporation in the U.S. and other countries. Microsoft, Windows and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and other countries. All other trademarks are the property of their respective owners.





Forward

Kill Your Cable, If You Dare

BY JEFF BERTOLUCCI

I RECENTLY cancelled my cable TV subscription. My Time Warner bill had been rising steadily—\$1.50 here, \$2.75 there. When it reached \$85 a month, I'd had enough. I stopped my cable service, vowing never to return. The Sign up for Hulu Plus on a Roku set-top box, and you could save \$900 a year—while still allowing the TV junkie in you to get its boob-tube fix.

are two Google TV devices that marry the Web and television, as well as beefed-up set-top boxes from Apple and Roku (now with Hulu Plus). Each offering delivers



24-hour shopping networks, the cricket matches in Bangalore, the colon-cleansing infomercials—I definitely wouldn't miss any of it.

If you're tired of shelling out big bucks for cable TV service, the good news is that you have new entertainment options. Among them movies, television shows, music, and photos to the huge screen in your den.

Of course, ditching your cable company has some drawbacks, particularly if you are a cable-news or sports addict. But saying farewell to cable (or downgrading your plan to basic cable) and supplanting hefty premium-cable subscriptions with a set-top box can help you save a large amount of cash. At this point I'm on track to save \$900 over 12 months. Yep, that buys a lot of colon cleanser.

Brave New Telly

All of these media-streaming devices use Wi-Fi or ethernet to pipe Internet-based material to a television. They connect to the TV's HDMI port, although some can use an analog link, such as a composite A/V cable, instead. The online movies, TV shows, and music that they deliver come from a variety of Internet sources, both free and fee-based.

As is often the case with new technologies, there's a bit of untamed Wild West to Internet streaming. For novices, the most daunting task is finding all of the video programming scattered across the Web. Currently, Google TV, which weds Internet-based entertainment, Web surfing, and productivity apps with your HDTV, is the best way to find content online.

An Android-based software platform, Google TV debuted in October on Internet TVs (\$600 to \$1400) and a Blu-ray player (\$400) from Sony, as well as on the Logitech Revue set-top box (\$300). The Logitech Revue is a small device that hooks up to any HDTV and allows you to browse the Web from the TV set (yes, including Flash sites such as Face-

SONY'S NSX-24GT IS one of four new HDTV sets to incorporate Google TV functions.

and

PCWORLD.CON

Google TV promises to merge Web-based entertainment, apps, and TV functions seamlessly. For a closer look at how it functions on one device, the Logitech Revue, browse to find.pcworld.com/70957.



THE GOOGLE TV-BASED Logitech Revue lets you surf the Web, including Flash sites, on a TV.

book, FarmVille, and Twitter) and search and watch Web videos (except for those on Hulu, which is banned from Google TV). You can also enjoy content from a growing list of partners (Amazon Video On Demand, CNBC, HBO, Netflix, and Twitter) that each have custom Google TV channels.

Sony bakes Google TV straight into its Internet TVs-no extra boxes needed. While the Revue works with either a full-size or miniature Logitech keyboard, the Sony Internet TVs have their own style of mini-keyboard, which feels a lot like a game controller. Accompanying the Sony keyboard are two control pads: a touchpad on the right for navigating Websites, and a mechanical rocker switch on the left for navigating when the set is tuned in to broadcast programming. The rocker switch operates like the directional buttons on a DVD remote.

Bargain Boxes

Google TV-enabled devices are impressive, but they're also pricey compared with competing media streamers. Logitech's Revue, for instance, is three times the price of the Apple TV (\$100) and five times that of the Roku HD device (\$60). Both the Apple and Roku boxes, however, are considerably less ambitious than Google TV. Apple's unit lets you

rent movies and TV shows, streams content from Flickr, Netflix, and YouTube, and plays dozens of Internet radio stations. Roku offers three players (HD, XD, and XDS) that range from \$60 to \$100 and have similar functionality, as well as access to Amazon Video On Demand. Roku's boxes also stream videos from Hulu Plus and Netflix-but vou'll need to subscribe to those services (\$10 and \$9 a month, respectively).

Both the Apple and Roku products lack Google TV's full Web browser and other search tools for finding material online.

The new Apple TV is much smaller and simpler than its predecessor, which cost \$229 and included a 160GB hard disk for storing digital media. The revamped, diskless model streams but doesn't save media. Users can rent movies and TV shows, access a few online services (including Flickr,



THE COMPACT ROKU XD, as well as its siblings the HD and XDS, can stream Hulu Plus video.

Netflix, and YouTube), and stream iTunes files stored on their networked home computers. Apple has also established deals with major partners so you can rent TV shows from ABC, the BBC, Disney, and Fox for \$1 and rent movies for \$4. In addition, Apple has announced AirPlay, a feature that will permit you to stream music and video files from an iPhone, iPod Touch, or iPad straight to an Apple TV. For its part, Google TV has



THE REDESIGNED Apple TV gives access to TV and movie rentals, plus online services.

a similar trick up its sleeve with a feature called Fling, which allows you to stream media from an Android smartphone to the TV.

Picking the Right Device for You

If you have a sizable iTunes library and just want to play files and iTunes content on your TV, the Apple TV is a cheap and elegant choice. If, on the other hand, you want to connect external storage devices or browse the Web, keep shopping. A Roku box is an inexpensive option to stream

videos from assorted paidfor services, and the company says that soon the devices will allow you to hook up external hard drives, as well.

If you want full-blown Internet entertainment on your TV, consider the Logitech Revue with Google TV, or a Sony Internet TV. Both not only work with Internet video, locally streamed videos, and video stored on an external drive, but also integrate with your DVR and let you browse the Web. On the downside, you have to pay a lot for the functionality.

Cable's Advantage

So should you do as I did and ditch cable TV? Maybe not, particularly if your favorite shows are available only on cable, or if you live in an area where the overthe-air broadcast channels are difficult to receive through an antenna. Not surprisingly, the cable industry agrees with that assessment, particularly when it comes to broadcasts of live events. "Sports are still appointment-television driven-very live driven," says Comcast spokesperson Jennifer Cory. And the NFL playoffs aren't coming to a

Website near you—at least not in the foreseeable future. Rather than drop cable TV altogether, one cost-saving option is to downgrade to a bare-bones package. Verizon,

for instance, offers FiOS TV Local, which includes all of the stations in your region, for just \$13 a month. And Comcast and Time Warner each have similar basic plans for a few dollars more; the exact pricing and channel lineups may vary by area.

Daniel Ionescu contributed to this article.

1-11

Canon

ED5 60D HARTS OUNE

Canon imageANYWARE

Forward

Unlocking Android's Multimedia Muscle

No iTunes? No problem. Here's everything you need to know about managing multimedia on your Android device.



A POP QUIZ: iPhone is to iTunes as Android is to what? If you're coming up blank, there's good reason.

Apple's mobile world is all about a one-size-fits-all philosophy: When you buy an iPhone, you buy into iTunes. You may love it or hate it but if you use an iPhone, you have no other options.

Android takes the opposite approach: Managing your media is up to you. Aside from the occasional carrier-provided utility which, let's be honest, usually isn't that good—no standard iTunes equivalent for Android phones exists.

Although it can be overwhelming, a world without mandated standards isn't a bad thing. You can use a full-featured or lightweight program, or none. You can even use iTunes, if you wish.

Follow this guide to find an Android media management strategy—and say good-bye to iPod envy.

If you like a bare-bones, dragand-drop approach: Install nothing. Plug your Android handset into your PC's USB port and activate 'USB storage' mode when the phone prompts you. (On some devices, you may need to pull down the notification bar to find this option.) The phone will show up as a removable drive on your PC, and you can drag and drop images, music, podcasts, and video files to your heart's content.

Music and video files typically live in the 'music' folder of your phone's SD Card. You can either dump everything in there or create subfolders. You may need to convert certain files to 3GP or MP4 for your phone to play them; to do so, try Any Video Converter Free Version (find.pcworld.com/70958).

Want to build playlists? Open the Android Music app. Long-press on a song, and select *Add to playlist*.

If you want to stay synced with Windows: Use Windows Media Player. Connect your phone to your PC and enable 'USB storage', as described above. Click the Sync tab in the upper-right corner of Media Player. You should



ACTIVATE USB STORAGE mode on the phone to drag files to it.



LOOKING FOR A media manager that resembles iTunes in look and feel? DoubleTwist can handle your organizing and syncing needs.

see your handset listed.

Click the white box below the Sync tab and select Set up sync. Type a name for your phone, and click Finish. Now, whenever you plug in the phone, Media Player will update it with any new music it finds on your PC.

If you want a full-featured interface: Install Double-Twist (www.doubletwist.com) on your PC. The free utility gives you a familiar-looking way to view all the photos, videos, and music on your computer, and then copy or sync them to your phone. It can import all of your playlists from iTunes, convert video to Android-friendly formats, and even download and save YouTube videos for your device. The program is integrated with Amazon MP3, and it has a podcast search-and-sync tool.

If you're craving podcast power: The Android Market has no shortage of podcast apps. I've found DoggCatcher (\$7) to be the most polished and user-friendly one; its interface makes finding, subscribing, and listening to podcasts a snap. Other apps include BeyondPod Podcast Manager (\$7, also available in a limited "lite" edition), Google Listen (free), and Stitcher Podcast Radio (free).

If you want to use iTunes: An app called iSyncr can keep your Android phone synced to iTunes. Remember, however, that Android can't play anything with Apple DRM (which currently includes all videos and some music purchased from iTunes).

Search for iSyncr in the Android Market; you'll find both PC and Mac versions. The full versions cost \$3. The



ISYNCR KEEPS YOUR Android phone and iTunes in harmony.

free "lite" versions sync only one playlist at a time and limit you to 20 items per playlist. Getting started is easy; follow the on-screen tutorial and begin the sync process with iTunes.

An even easier alternative: Use the iSyncr Wi-Fi Add-On, available for \$1 in the Android Market. It works over Wi-Fi, letting you sync your phone to iTunes without a physical connection. —IR Raphael



IT'S TIME TO LOOK AT THE WORLD FROM A UNIQUE PERSPECTIVE.

Introducing the new Canon EOS 60D. Featuring our first ever 270-degree 3.0-inch LCD screen that allows you to express yourself from any angle, whether it's an extreme high angle, low angle, or even self-portrait. And with an 18 Megapixel CMOS sensor, 5.3 fps shooting and multiple aspect ratios, you'll capture stunning photography from every direction. Then see beyond the still in 1080p Full HD video.

Inspired. By Canon.





Image Sendated. @2010 Caron U.S.A. Inc. Caron and EDS are registered trademarks of Caron Inc. in the United States. IMAGEAWWARE is a trademark of Caron. All rights reserved.

Forward

Windows Phone 7: Microsoft Ups the Ante

FOR MICROSOFT'S Windows Phone 7 mobile operating system, it's put-up-orshut-up time. Following a humiliating phone flop earlier this year with the Kin, the company needs to prove that its Windows-centric phones—with links to Microsoft Office, Xbox Live, and a nascent library of apps—can woo the masses away from Apple, Android, and BlackBerry handsets.

Can it pull that off? It just might. Windows Phone 7 is unlike any iteration of Windows Mobile we've seen. Starting in November, handsets by Dell, HTC, LG Electronics, and Samsung will be available on AT&T and T-Mobile wireless networks; Sprint will get its share of Windows Phone 7 next year. The new OS is impressive, and it deserves a closer look.

A Break from the Past

Windows Phone 7 abandons the legacy of Windows Mobile 6.5, Pocket PC, and Windows CE, which required users to attack certain screen menus with a small stylus. Instead, the new colorful interface uses large icons and tight Web and Microsoft Office integration to create the software giant's first truly finger-friendly smartphone.

The new home screen—or Start, as Microsoft calls it has "live titles" or widgets, which can show at a glance your missed calls, incoming texts, or e-mail. You can also add "live titles" from friends' social network profiles from Facebook, for example. Windows Phone 7 stresses In an attempt to win the smartphone game, the company revamps its mobile OS, stressing both social networking apps and productivity.



AMONG THE FIRST Windows Phone 7 handsets are (from left) the HTC Surround, the LG Quantum, and the Samsung Focus.

social tools. Your phone can access photos that you've stored on Windows Live and Facebook as easily as it can the photos you've taken with the handset. The phone can integrate contacts from all local and Web sources, and your photos save to the cloud as you take them.

Joe Belfiore, corporate vice president for Windows



IN PRESENTING LARGE icons, Windows Phone 7 departs from the look of previous OS versions.

Phone, says the new operating system was designed "to create an environment that becomes deeply personal."

Where Are the Apps?

On the downside, the new phones shown in October, including the HTC Surround, the LG Quantum, and the Samsung Focus, had few apps installed beyond what would normally come with handsets, such as Fandango, the iFood Plus Food Assistant, Netflix, and Twitter.

However, Belfiore says that "hundreds of thousands of developers have downloaded the free development tools and are developing Windows Phone apps right now."

Microsoft boasts that its upcoming mobile Games Hub on Windows Phone 7 is the first and only official Xbox Live app available on a phone. It includes Xbox Live games and a spotlight feed, and you can see people's avatars, Achievements, and gamer profiles. If you're an Xbox 360 addict, you'll find a lot of familiar titles.

Windows on a Phone

Mobile versions of Microsoft Office applications such as Word, Excel, PowerPoint, Outlook, and OneNote are tightly integrated into the mobile OS. For instance, the phone can automatically recognize an address that's embedded in an appointment. Touching the address launches a map, which eventually switches from map to satellite view as you zoom in on the address.

Pushing and holding the 'home' button on a Windows Phone 7 handset launches a voice-recognition feature that lets you say what you want to do, such as "locate an airline flight." Your voice goes to the server for Microsoft's TellMe service, which deciphers your command and returns the requested information to you—if it makes out what you said.

Promise for the Future

Missing features such as copy-and-paste (it's coming next year), multitasking, and tethering—as well as a waitand-see attitude from some app developers—cloud Windows Phone 7's future. But the smartphone party isn't over yet. Windows Phone 7 still has time to beef up and hang with the cool kids. —Robert S. Anthony

PCWorld contributors Jared Newman and Daniel Ionescu, as well as associate editor Ginny Mies, contributed to this article.

Forward

Verizon Wireless Turns Up the Heat on 4G Wireless Deployment

VERIZON WIRELESS recently announced that it will bring the latest and fastest mobile broadband flavor-4G LTE-to 39 markets in the United States, effectively lighting a fire under

the 4G network rollouts of the other U.S. wireless carriers.

Among Verizon's 39 LTE (Long Term Evolution) cities are Atlanta, Chicago, Dallas, Los Angeles, New York, and San Francisco.

In PCWorld speed tests, Verizon's 3G EvDO network produced average download speeds of 877 kilobits per second and average upload speeds of 434 kbps. Verizon says its 4G network will offer download speeds of 5 to 12 megabits per second and upload speeds of 2 to 5 mbps. At that rate, videoconferencing and high-def video should perform smoothly and dependably. LTE also uses a wireless spectrum that better reaches inside buildings; 4G mobile hotspots may become fast and reliable enough to unseat home DSL or cable. Verizon expects the service to cover

200 million people by end of 2011, and

to be as extensive as the company's 3G network by the end of 2013.

As for the competition, Sprint took an early lead in the race to 4G by deploying WiMax service, which now reaches 58 cities, AT&T

says it will begin rolling out its 4G LTE network in 2011. And T-Mobile is upgrading its network with a promising pre-4G technology called HSPA+.

The first devices to link with the Verizon LTE network will be laptop USB modems. Verizon plans to show LTE phones and tablets at the 2011 Consumer Electronics Show in January; the products will reach consumers by midyear. -Mark Sullivan

Google Yields to the Haters of **Gmail's Conversation View**

IF YOU HATE how Gmail groups an e-mail with all the replies to it, Google has answered your prayers and made "Conversation View" an option that you

can turn off. So, instead of having one item in your inbox that includes, say, all 16 messages from coworkers about the monthly budget, you can now have 16 separate messages somewhere in your inbox. Judging from the com-

plaints on the Gmail forum, people dislike Conversation View because the threaded approach doesn't allow them to kill off individual messages.

I like having a clean inbox, but I think

Conversation View haters are off-base. Threads make it much easier to keep track of the twists and turns of a topic. By default, you see only the messages

you haven't read yet; the previous messages are collapsed.

The anti-Conversation View crowd also says that undeletable messages are making the inbox too bulky. But a basic Gmail account now offers 7.5GB of storage. Unless your conversations include lots of at-

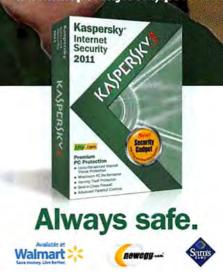
tached high-def video files, those individual messages that you can't delete aren't making a dent in your storage. -Edward N. Albro

David Banks Wired.com's GeekDad Core Contributor 500,000 readers

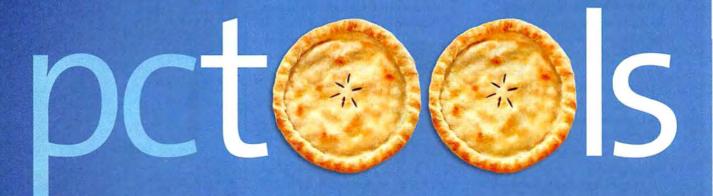


This is one dad who won't let his computer get all wonky again.

Watch his video at www.kaspersky.com/pcworld

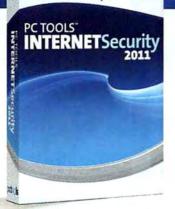






Award-winning protection made easy.





Introducing PC Tools^{••} Internet Security 2011, our most advanced protection ever. Slice through cybercrime without all the fluff. It defends your online identity with multiple layers of hardworking protection. Plus, it's faster than traditional antivirus products, so it won't slow you down. Simply install it today and you're covered. What could be easier? Protect yourself at **pctools.com**



d March 30, 2010 PC Tools Internet Security 2010



Copyright © 2010 PC Tools. All rights reserved, PC Tools and the PC Tools Logo are either trademarks or registered trademarks of PC Tools Technology Pty Ltd. The PC World Best Buy award logo is a trademark of PC World Communications, Inc., publisher of PC World and PCWorld.com.

Forward

EDWARD N. ALBRO BETA WATCH

EmailOracle: Inbox Spy

Do you hate hearing someone give you that lame "I haven't read your e-mail" excuse when you know they read it but didn't bother to reply? EmailOracle is a

Gmail plug-in that will tell you whether they are really blowing you off or it's time to up the antiparanoia meds. This service adds a couple of checkboxes to Gmail's interface when you're composing a message: You can choose to track whether the recipient opens your e-mail and to get a reminder if you in to your Facebook or Twitter account through FriendShuffle, and click the Shuffle button—you'll go to a Web page that a friend mentioned in a status update or liked on Facebook. At the top, you'll see

Tes	Ted Alberts and a second second
	"Ed Albro" <ealbro@pcworld.com>,</ealbro@pcworld.com>
	Add Cc Add Bcc
Subject:	Take a look and get back to me
	Attach a file Insert Invitation
Track	remind me if I haven't heard back in 1 - days (Ctrl + Shift + 1)
	See whether the recipient opens this email (Ctrl + Shift + 2) change image

WITH THE EMAILORACLE plug-in for Gmail, you can track whether a recipient reads your message and fails to reply.

haven't heard back within a number of days that you specify. A free account lets you track 20 messages a month. Paid accounts cost as much as \$100 per month and allow you to track as many as 10,000 messages a month. emailoracle.com

FriendShuffle: URL Explorer

For many people, the point of following someone on Twitter (and, in some cases, Facebook) isn't so much to see what they say in their status updates as to see what they're linking to. FriendShuffle is a mashup that makes it easy to view the Web pages that have your friends excited. Sign what your friend had to say about it. And if you're intrigued, too, you can click a button to post it to your Facebook and Twitter followers. friendshuffle.com

Storify: Blog Collector

Literature has the concept of "found poetry," poems cobbled together from other people's words. Storify is a free tool to create what you might call a "found blog." When you compose a blog entry at Storify, you see two panels on the page. The panel on the left allows you to search for content from Creative Commons, Facebook, Google, Twitter, or YouTube. Once



USE STORIFY TO collect blog posts, videos, tweets, and other bits and pieces from the Web—plus your text—into one page. you find a Facebook entry or Twitter comment that you want to include, drag it into the composition panel on the right. The information appears much as it would in its original context, but you can add your own text before and after. People can see the final product on the Storify site, or you can embed your creation in your own blog. storify.com

DECEMBER 2010 PCWORLD.COM 19

Pioneer Gadget Girl 400,000 readers

"There's more to making your product girl-friendly than making it pink."

Watch her video at www.kaspersky.com/pcworld

Kaspersky

Security

2011

APCA Land

Always safe.

OfficeMax

ICASPERSICY

Buy.com Trus

IRISCan anywhere 2

World Premiere

Scan Anything. No computer needed!

wherever your are. No computer needed! • Scan & store into: SD card, USB flash drive or internal memory.

- Battery powered.
- Scans up to 200 pages per hour.

Exclusive PC World Offer at www.irislink.com/pcworld



100419-03



Scan Business Cards To Outlook®, Lotus Notes®, Address Book, Act!®, etc.

3

RISCAR



Scan your documents

The scanned documents are stored into the SD card,

Use your documents, business cards, photos in Word, PDF,

Excel®, Outlook®, Address

Book, ACDSee[™], etc.

USB flash drive or internal memory.

1

2

Scan Paper Documents Letters, faxes, receipts, invoices, etc. Eliminate your paper clutter!



Scan Photos Convert piles of photos into shared digital memories.

Forward

GEEKTECH

New Tech Goes Beyond Traditional Displays

CURRENTLY, THE highestresolution display you can get for a PC is a 2560-by-1600-pixel 30-incher cost-

ing \$1200 to \$2100. If you want more, you can buy multiple monitors—but the bezels break immersion in games or get in the way when you use productivity apps.

Alternatively, you could take four 1080p projectors, each about \$1000, and project images onto a single, curved surface much larger than a 30-inch display. Aligning and merging the images correctly isn't manually feasible, but companies such as Mersive and Scalable Display Technologies are working to solve the problem. Their systems break an image into multiple tiles and project each segment onto a big screen, sometimes curved, sometimes flat.

While Scalable Display seems to be focusing on smaller-scale designs, Mersive is pursuing setups that are much larger. For both companies, the idea isn't



SCALABLE DISPLAY TECHNOLOGIES' ScalableDesktop drives four HD projectors in an immersive, seamless display.

to make desktop displays, but to build high-res products for larger settings. For example, NEC has licensed Scalable Display technology to build a theater-style unit that replaces a single, \$100,000 projector with four \$10,000 ones. The result

High-resolution, projector-based setups could make using multiple monitors more useful, immersive, and practical.

> is an affair that generates 2500 lumens. In a project for a Fortune 20 company, Scalable Display has constructed an "enterprise media wall" with system integrator Cynergy that uses one PC, no external hardware, and two high-definition projectors. The computer runs Windows 7 and a capture card for a complete. large-scale videoconferencing system. Mersive's CEO Robert Belgley says his firm had one project that involved a 32-by-20-foot screen and used 20 projectors to create a 55-megapixel display. At one point, it was the highestresolution large display in public use. Both companies employ GPU technology to handle the compositing, color correction, and tiling of the images. With smaller systems (up to six projectors). a dual-GPU design can still generate at

> least 30 frames per second of real-time animation, such as in a game. Mersive has built its products into ship simulators for the U.S. Navy, for example. Scalable Display has shown two-, three-, and sixprojector curved displays that could function as an immersive gaming setup.

> Using software and multiple projection sources to construct these very highresolution displays and create a seamless image is an intriguing idea. As projector technology evolves—and as higher-output, higher-resolution pico projectors become more common—you could have a big, curved, quad-HD screen on your desktop for roughly the price of two or three 30-inch monitors.

-Loyd Case

For more hardware news, visit the Geek-Tech blog at go.pcworld.com/geektech.

Monica Vila The Online Mom Über Blogger

Even the most tech-savvy moms forget to back up their files.

Watch her video at www.kaspersky.com/pcworld



Wait less. Do more. Samsung Solid State Drive.

SAMSUNG Solid State Drive



That's the Wonder of Samsung.

Samsung Solid State Drives access data significantly faster than typical hard drives. Now you can boot in as little as 15 seconds, open intensive programs twice as fast, and render video file clips in up to 30 percent less time. Whether you are a tech enthusiast or a hardcore gamer, Samsung Solid State Drives will maximize your ability to get more done in less time. Another way Samsung is Dedicated to Wonder.



samsung.com/memory

@2010 Samsung Electronics America, Inc. Samsung is a registered trademark of Samsung Electronics Corp., Ltd.

Consumer Watch

Beyond PayPal: New Personal Payment Sites

BY YARDENA ARAR

EVER GONE OUT to a fancy restaurant with friends, only to find that someone lacked the cash to pay their share? Is writing a paper check to a relative (say, a kid in college) a hassle? A couple of new Internet services hope to do for money transfers between individuals what PayPal did for e-commerce: provide a way to make payments online without having to give recipients your credit card or bank account information.

How They Work

Popmoney, which launched late last year, and ZashPay, which launched this summer, work much like PayPal: For payments, you need only the recipient's e-mail address or mobile phone number. One major difference: PayPal permits you to send and receive payments only via your PayPal account. To make a payment, you must first fund your account (through a linked bank account or credit card); to receive a payment, you must transfer it to the bank or credit card to use it for anything that isn't a PayPal purchase.

Popmoney and ZashPay transfer money directly from your bank account to that of the person you're paying (neither service supports credit cards). This is much like electronic bill payments, and both services are offshoots of companies (CashEdge in the case of Popmoney; Fiserv in ZashPay's) that manage bill payment services for banks.

Both sender and recipient must have accounts on these services, but they



don't tie up cash—they just associate your bank account with your e-mail address and/or your cell phone number.

At More and More Banks

If your bank offers either service, it will set up your account automatically. CashEdge says some 175 banks already offer Popmoney; Fiserv says ZashPay had 70 banks on board in early October.

Otherwise, you can still use these services to receive cash by signing up for a personal account on a service's Website. But you must provide sensitive information, including your date of birth, Social Security number, and the accounting and routing numbers for your linked bank account. You must then go through a verification process, which involves waiting for the service to deposit two small sums (both under \$1) to your account and then reporting the exact amounts received.

ZashPay charges 75 cents to send money (up to \$500). Popmoney doesn't let you send money through its site »

ILLUSTRATION EDWIN FOTHERINGHAM

Got an Android phone? Find bill-paying and other personal-finance apps in our AppGuide for Android at find.pcworld.com/70920; and for similar iPhone apps, browse over to find.pcworld.com/70921.

Consumer Watch

at all, but only through your bank if it supports the service. You would set up a Popmoney account for payments from someone who wants to use that service through their bank.

Since my bank doesn't offer it, I set up a ZashPay account online, which took a few days because of the verification deposits. To make a payment, I just had to provide the recipient's e-mail address and the amount I wished to send. When I received a payment, the service notified me via e-mail. Turnaround time was one to two days.

Additional Services

Other personal payment services are AlertPay and Obopay, which work basically like PayPal—you must set up and fund an account that makes and receives payments. Obopay offers strong support for mobile devices; AlertPay serves some people that PayPal does not—it accepts money orders, and lets you send money to over 190 countries.

Do these services mean the end of checks? Jim Bruene, who tracks online finance in his NetBanker blog, says making e-payments first has to become "as easy as pulling out a \$20 bill." Still, that day is coming, Bruene says, and the checkbook may eventually go the way of the daily newspaper—online.



OBOPAY FOR THE iPhone works a lot like PayPal, via an account you set up and fund.

SKEPTICAL SHOPPER GINNY MIES

E-Coupons May Track Your Spending Habits

THE ADVENT OF online coupons has made shopping and saving that much easier. In an earlier era, people

spent their Sunday mornings clipping coupons out of the newspaper. Now, you can download coupons from dedicated sites like Coupons.com or Ebates.com, or even social networking sites like Facebook and LinkedIn. But this convenience carries certain privacy risks: Some companies track consumer spending habits based on the coupons they use.

Last April, The New York Times (find.pcworld. com/70928) reported on how a company called RevTrax, which manages online coupons for retailers, was tracking consumer spending habits through these online coupons. RevTrax clients include stores like Filene's Basement, Lord & Taylor, and Micro Center; restaurants like Ruby Tuesday; and a number of marketing agencies representing multiple clients.

Collecting Your Data

So what does all of this mean for consumers? Suppose that you sign into Ebates.com via Facebook Connect and obtain a coupon for Ruby Tuesday. You take in that coupon, it gets scanned, and you enjoy your discounted dinner. However, you might choke on your cheesecake if you realized how much information the restaurant has collected about you.

Once the restaurant scans your coupon's barcode, RevTrax can track it back not only to the search terms used in Ebates.com to find that coupon but to the Facebook ID, including your first and last name, that was used to log into the site. Now the company has access to your search habits and your social networking habits. It also has access to your loca-

Online coupons, although convenient, come with privacy risks, such as letting retailers track your shopping habits.

tion, your gender, and your interests.

Note that RevTrax simply collects all this data; where the data goes and how it is used is up to the retailer employing RevTrax's service. If Ruby Tuesday wants to send a "thank you" message to your e-mail address and offer additional deals, the restaurant can now do so thanks to its access to your information,

What's most disturbing is that RevTrax is completely invisible; you have no way of knowing whether a coupon is on RevTrax's platform or not. And RevTrax isn't the only company out there that is tracking customers' spending habits. The May Skeptical Shopper (find.

pcworld.com/70930) looked at a company called RapLeaf that used Facebook and Twitter to create targeted ad campaigns for banks and other financial institutions.

(The companies using RevTrax's services insist that they use the data simply to reach their customers better.)

Protect Your Privacy

Though most of the data collected when you use a coupon may be harmless, you can never be too sure. I recommend adjusting the privacy settings on your Facebook profile. Also, don't use Facebook Connect to log into e-coupon sites.

ReclaimPrivacy.org has a neat tool that will scan your profile and account settings. For each area of your account, ReclaimPrivacy will give the setting a green ("good"), yellow ("caution"), or red ("insecure") ranking. If your account settings prompt yellow or red warnings, the site will give you instructions on how to change those problematic settings.



ner and rear a second rear and rear and

I want to make it great because I'm a party ANIMAL

I'm Alex and I'm a party planning machinebirthdays, bachelor parties, you name it. With new PowerPoint® 2010, I broadcast presentations over the web by emailing my clients a link. So I can present to a client in San Jose from my living room in San Francisco while chillaxin' with my kids.

> See how you can make it great with new Office 2010 at office.com/2010.



CUSTOM YOUR OWN HOSTING

- > FREE SITE BUILDER
- 3000+ TEMPLATES
- >> 24/7 SUPPORT (Level3)
- »> 99.9% Uptime
- >> 45 Days Money Back

DOMAIN REGISTRATION with FREE PRIVACY for only \$8.95/year



Consumer Watch



I RECEIVED A Windows 7 Ultimate CD from a friend of a friend when Windows 7 first came out, and as I always do. I put it through every test for genuineness that Microsoft had, because I had been tricked into buying a counterfeit copy before. Every one of those tests said it was authentic. Recently when Automatic Updates ran, a notification came saying my copy was not genuine. What should I do? I don't want to buy another copy of Windows 7 Ultimate, and I'm sure this version is real. Please help.

Robert C. Machl, Louisville, Kentucky

OYS responds: We advised Maehl that he could submit his rejected copy of Windows to Microsoft for evaluation and possibly get a free replacement. He did just that and received a new copy.

Anyone who already has a copy of Windows or Office and wants to check whether the software is genuine can visit www. microsoft.com/genuine; Microsoft enhances its validation tests constantly, which may explain why Maehl's copy of Windows originally passed but later failed.

Besides the ethical issues surrounding software piracy, a Microsoft spokesperson points out that counterfeit software carries risks such as exposure to malware and identity theft. The company encourages customers to use its Windows Genuine Advantage (WGA) and Office Genuine Advantage (OGA) validation tools.

If you're considering buying Windows from a third party, make sure that the reseller is reputable. Look for high-quality packaging with a Certificate of Authenticity label but no product key on the outside, and check to confirm that a hologram CD, DVD, or recovery media and an End User License Agreement are included. You can see examples of counterfeit software and antipiracy features at www. microsoft.com/resources/howtotell.

Keyboard Inconvenience

Gene Carey of Rome, New York, contacted us when he had trouble getting a product repaired or replaced under warranty. About five months after he purchased a new FireFly International illuminated keyboard on eBay, a couple of the keys stopped registering. Carey e-mailed FireFly four times to request a Return Merchandise Authorization



(RMA), but he received only automated responses saying that the company would get back to him. It didn't.

After we contacted FireFly about Carey's problem, a representative sent him an RMA. Carey returned the keyboard; the company verified that it was defective and then sent him a replacement.

Toshiba Notebook Recall

In cooperation with the U.S. Consumer Product Safety Commission, Toshiba has recalled about 41,000 notebooks. The Satellite T135, Satellite T135D, and Satellite Pro T130 can overheat, posing a burn hazard. Toshiba has received 129 reports of the notebooks' overheating and deforming the plastic casing around the AC adapter plug; two reports are of minor burns and two are of minor property damage. Consumers should immediately download the latest version of Toshiba's BIOS from find.pcworld.com/70927 to their notebook. The BIOS revision will detect whether the unit is overheating; if it is, external power will be disabled, and the user will be directed to contact Toshiba for a free repair. For more information, call Toshiba at 800/457-7777.



I want to make it great because can't believe this is my

My name is Aaress, and if my job was a person I'd marry it. I run one of the most popular women's tennis websites. My partners and I are constantly updating the site, and use new OneNote[®] 2010 to share ideas, photos, articles – everything. It's a digital notebook we can all access over the web. Even with our smartphones, which have been a total game changer. No pun intended.

> See how you can make it great with new Office 2010 at office.com/2010.



You need 200 new computers configured and deployed by Friday. It's Thursday.

At CDW, we say, not a problem. Not only can we help you replace your aging notebooks and desktops with more efficient and productive machines, we can do the research, compare all brand and technology options and then preconfigure your hardware with the latest software and operating systems. No matter what you need or when you need it, you can count on us to get it done.





Let us help your business. 800.399.4CDW | CDW.com/notebooks

TSP smart Buy savings reflectes in Subertand prime, F/P Smart Buy savings is based on a comparector of the FIP Smart Buy prior perces the alvindard but prime of an identical product, savings may vary based as encoded and/or direct standard pricing. Offer subject to CBW's studied or twens and enhabitions of take warrante at SDW-cole. (42010 CDW LLC)

Business Center

Videoconferencing: Stepping Up From Skype

BY CURT FRANKLIN

AFTER YEARS OF promise, videoconferencing has become useful for small businesses, offering long-distance collaboration without the need to travel.

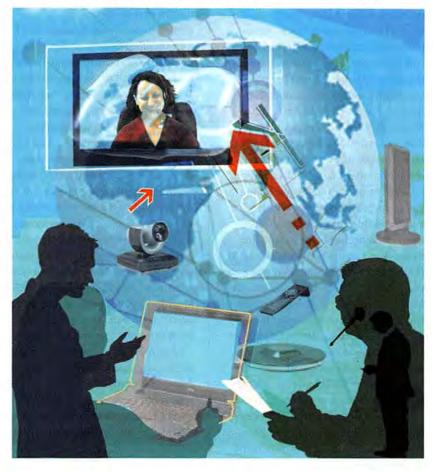
If you're ready to move up from free videoconferencing, telepresence tools can make a video chat feel almost like being there. Many people get their first taste of videoconferencing via Skype or a videoenabled instant messaging system, and for informal purposes such services may be all a company needs. For

organizations that want to communicate with customers or replace travel with long-distance conferences, something more sophisticated is required.

Multiple Options

All videoconferencing products include a Web-standard video camera, a microphone, a system to deliver audio and video, and software. A more-immersive setup can include video screens coupled to full-duplex audio with whiteboard and document sharing, as well as highdef video on a desktop monitor and simultaneous document collaboration.

Your options range from the basic Webcam-and-headphone combination to the dedicated hardware and software systems sold by vendors such as Cisco, LifeSize, and Polycom. Choosing a system boils down to how many users need to be on a conference, how good the



quality must be, and how much money you have for videoconferencing and the network infrastructure to support it.

Many professionals use consumer video calling, such as Skype and free IM systems. For businesses, however, these services present problems, such as a lack of company control over how employees use them. This issue can become a headache if your firm is subject to regulations on how information is shared. For that reason alone, many companies block consumer-level videochat services at the firewall. Add to that the choppy streaming and grainy video, and you have an option that isn't appropriate for a professional role.

You can find commercial services and free tools that work well for small businesses and are acceptable for sharing video—some add desktop views, slideshows, and whiteboard sharing—

PCWORLD.COM

Selecting a videoconferencing system and implementing it requires careful planning. For tips on what to consider and what to avoid, see "Getting Videoconferencing Right" at find.pcworld.com/70908.

Business Center

but they do not provide high-def video.

A growing number of vendors offer videoconferencing as part of a larger suite under the unified communications umbrella. Because the technologies involve moving audio, video, and other media through a network infrastructure that is generally not optimized for it, various protocols, standards, and technologies come into play. Most small businesses that want internal videoconference capabilities should use a unified communications server from Avaya, Cisco, Microsoft, or 8x8; these platforms combine many functions into a single server that company staff or a system integrator can configure and administer.

Large enterprise videoconferencing and telepresence systems—which offer audio and video of such high quality that it's almost like being in the same room—use a component called an MCU (Multipoint Control Unit) that plays traffic cop and bandwidth manager. An MCU also serves as a universal translator, allowing videoconference clients using different compression techniques and protocols to communicate. In unified communications systems, the server contains the MCU function, simplifying configuration and administration.

The availability of dedicated processing power and silicon-based (rather than software-based) compression and decompression are the primary advantages of stand-alone, hardware-based videoconferencing systems. Enterpriseclass systems base their multipoint videoconferencing setups on hardware MCUs and gateways. For most small organizations, though, a softwarebased system is more affordable.

Keeping Within Budget

Videoconferencing is a demanding, high-bandwidth application for clients, servers, and networks. But technology has evolved to a point at which you can have professional-quality videoconferencing without busting your IT budget.

For more advice, including a discussion of protocols, see the online version of this article at find.pcworld.com/70909.

NET WORK TONY BRADLEY

Tiered Wireless-Data Plans: A Bad Bargain

RECENTLY, VERIZON and Sprint both hinted that the days of unlimit-

ed data are numbered. Following AT&T's lead, the other wireless carriers seem prepared to start nickeling-and-diming customers. But if all the major carriers go ahead with tiered data-plan pricing, mobile broadband hotspots will become more appealing as a less-expensive option.

The wireless carriers are heading in the wrong direction. What they should do— especially in the case of AT&T and Verizon, which are also many customers' home Internet provider—is move toward merging services and allowing customers to pay a single, flat rate for broadband (wired or wireless, tiered or unlimited) that's shared across all devices. For business and family plans, data should be one pool, and AT&T in particular should extend its voice rollover program to data and allow unused bytes to transfer to the next month.

When AT&T pulled the plug on unlimited data plans and implemented tiered pricing in June (find.pcworld.com/70877). it justified the move by saying that 98 percent of its customers average less than 2GB of data consumption per month, and that 65 percent use less than 200MB. If the claim is true, and if AT&T has no ulterior motive to boost profits via nickelingand-diming, why not allow that 98 percent to continue paying for unlimited data?

Separate Costs Add Up

Right now, I pay AT&T for U-verse broadband, which supplies Internet access for the computers and game consoles on my home network. I also pay \$30 a month for unlimited data on my iPhone 4, \$15 a month for 200MB of data on my wife's iPhone 4, and \$15 a month for 200MB of data on my son's iPhone 3GS. If I want to tether my iPhone 4 to connect my laptop on the go, that will cost an added \$20 per month, but the fee doesn't come with any extra bandwidth. My iPad is Wi-Fi only; but if it had 3G and I wanted to connect it

Contract-free, unlimited mobile hotspots now constitute a more appealing choice.

over wireless, that would be another \$25 per month for 2GB of data. Combined, I could end up paying \$150 or more per month to AT&T for the privilege of accessing the Internet from all my devices.

Mobile-Hotspot Alternative

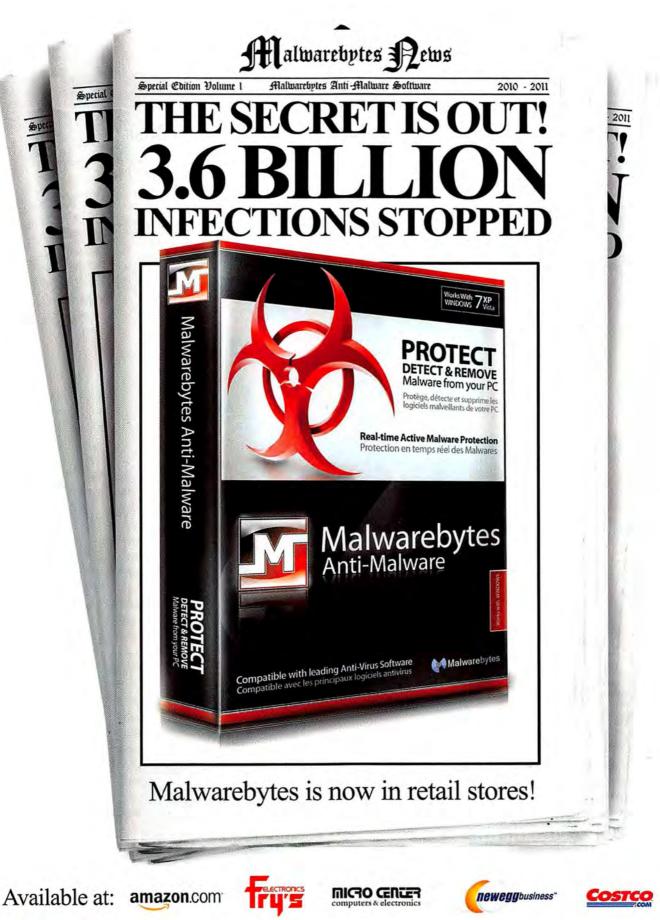
In light of such high wireless-carrier fees, moving to portable hotspots such as the Novatel/Virgin Mobile MiFi 2000 or Clearwire Rover Puck (reviews on pages 68–70) and gaining no-contract, unlimited data access for multiple devices is becoming more attractive, especially for IT departments and mobile professionals. Rather than paying for individual data plans and



PORTABLE HOTSPOTS SUCH as the Clearwire Rover Puck (left) or Novatel/ Virgin Mobile MiFi 2000 promise unlimited data access for multiple devices.

tethering for each device, users on the go can connect a phone, tablet, and laptop to a mobile hotspot simultaneously and let customers or partners share the connection as well—all for one low, flat rate.

Granted, you may still be under a wireless contract that requires at least a minimum data plan. But even so, you can realize savings by shifting down to the bare-minimum data plan and adopting the mobile-hotspot system. In the near future, subsidized smartphone and tablet prices might not seem like such a good deal when you add up the total service cost over the life of the contract.



DSolution.ca

For More Information, Call Today! 1.866.279.0239 www.dsolution.ca Authorized Malwarebytes Distributor

Business Center



TECH AUDIT ELSA WENZEL

Choose the Right Tech Support Professional for Your Business

FOR YOUR COMPANY'S tech backbone to function, it needs steady support. Finding the right IT expert can not only save money over the long run but also make the difference between merely surviving an emergency and powering ahead for growth.

Instead of providing nuts-and-bolts PC support, the pro you hire might work on broader challenges, such as unifying communications across phones, laptops, and desktops. "I try to look at what's

going to happen in six months, what's projected for sales and staffing levels," says Jeremy Hayward of SNS Technologists in Edmonton, Alberta. "It's not all technical. We try to translate day-to-day busi-

ness needs into technology that will help you do better."

What to Look For

When seeking outside help, start with word-of-mouth networking. In addition, consider searching for "tech support" on local-reviews services such as Yelp.com. For \$29 a year, you can consult Angies-List.com, which specializes in

user-rated construction and home-repair pros but also includes a 'Computer Repair & Services' category. Or, if you prefer, try posting a free ad on Craigslist in the 'Gigs Offered' section under 'Computers' to invite replies from professionals to your inbox.

If you have a lot of gear from a certain brand, check the maker's Website for local partners or resellers that might also offer business support services, such as on HP's Partner Locator page (find. pcworld.com/70906). Some companies, such as Dell, provide consulting within their small-business guides (find.pcworld.com/70907).

Seek a professional who observes your operations and asks about how your business works overall, not just the technologies it uses. Your IT contact should feel the pulse of your network and pay special attention to security and backup. Where is your e-mail hosted? What operating systems, software, antivirus tools, desktops, laptops, tablets, and smartphones do your employees use? Ideally, the pro should help beyond your immediate needs with a three- or five-year plan that takes your business budgeting and forecasting into account. A monthly or quarterly check-in is a good idea.

Make sure the consultant looks for tools that fit the size and type of your business. If your family runs an antique shop, for example, your accounting data may fit neatly on a secure USB key that you take home each night. If, on the other hand, you're in charge of an investment firm or a medical office, your data must have extra lay-

fail? Here's how to seek good IT help.

Who do you call when hardware and software

ers of protection to comply with privacy regulations and other laws. Certifications that matter include Microsoft Certified Technology Specialist (MCTS) and Microsoft Certified IT Professional (MCITP). For networking, look for CompTIA Network+ or A+ accreditation.

An Apple Certified Support Professional (ACSP) could be appropriate for Mac shops with complex needs.

Warning Signs

If the consultant speaks in buzzwords and acronyms, don't be intimidated. But be ready to let them go if they won't explain; efforts to bewilder you with jargon reflect arrogance or fear, not expertise. And before you follow a know-it-all who insists that you wipe your hard drives and throw out that equipment, seek a second opinion. Stay away from fly-by-

night, crisis-based services that try to sell you the tech flavor of the month. Along the same lines, be wary of consultants who present a particular technology or a single brand as the end-all, be-all solution. It's fine to favor a brand that works for you, but no indi-

Watch out if someone tries to sell you top-of-the-line, enterpriselevel gear. For example, you may not need to spend \$10,000 on a server if you have only five users—a network-attached storage device with cloud-based backup could do the trick.

vidual manufacturer makes the best of everything.

If you want to do something that your IT person refuses to consider, such as giving your sales team smartphones, the professional had better explain why it's not in your best interest.

Finally, a pro who rescues data and saves you thousands of dollars with wisely chosen equipment may seem like a miracle worker, but don't expect magic. You're in a partnership, so work together and be patient. "If somebody's using technologies I haven't investigated, I don't pretend I know everything that's out there." says Hayward. "The answer should be, 'I'm not sure, but I'll find out."

If you're an IT consultant serving small to midsize businesses, and you'd like to learn how you can contribute to Tech Audit, e-mail techaudit@pcworld.com. For more advice, read the Tech Audit blog (find.pcworld.com/64147) and follow us on Twitter (@TechAudit).



DECEMBER 2010 Windows[®]. Life without Walls[™]. Acer recommends Windows 7.

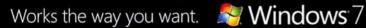


TravelMate Tailored for your business needs

Acer® TravelMate® 8372

- Genuine Windows[®] 7 Professional
- Intel[®] Core[™] i5-460M Processor
- 4GB DDR3 SDRAM, 320GB¹ hard drive
 13.3" display
- TM8372-7127 (LX.TZF03.021)

\$899



acer

Acer[®] Aspire[®] 5742

- Genuine Windows[®] 7 Home Premium
- Acer CineCrystal 15.6" display, 1366 x 768 resolution
- Integrated Super-Multi drive
- 2-in-1 card reader
- 802.11b/g/n WLAN, gigabit LAN
- Integrated webcam
- One-year limited warranty²

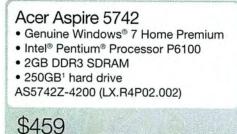
Acer Aspire 5742

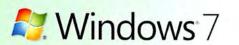
- Genuine Windows® 7 Home Premium
- Intel® Pentium® Processor P6100
- 4GB DDR3 SDRAM
- 320GB¹ hard drive AS5742Z-4685 (LX.R4P02.020)











Your PC, simplified.

Windows® 7 Home Premium operating system: the best entertainment experience on your PC.



Acer® TravelMate® 5542

- Genuine Windows[®] 7 Professional
- 15.6" display, 1366 x 768 resolution
- 2-in-1 card reader
- 802.11b/g/n WLAN, gigabit LAN
- Integrated webcam
- One-year limited warranty²

Acer TravelMate 5542

- Genuine Windows® 7 Professional
- AMD Turion[™] II Dual-Core Mobile Processor P540
- 4GB DDR3 SDRAM
- 320GB¹ hard drive
- Bluetooth[®]
- TM5542-5256 (LX.TZG03.006)





Acer TravelMate 5542

- Genuine Windows® 7 Professional
- AMD Athlon[™] II Dual-Core Processor P340
- 2GB DDR3 SDRAM
- 250GB¹ hard drive
- TM5542-3590 (LX.TZG03.010)

\$549

Acer GD235HZ bid

acer

- 23.6" wide TFT LCD
- 3D ready³

\$399

and a subsection

- 1920 x 1080 maximum resolution
- 80000:1 dynamic contrast ratio
- 170°/160° horizontal/vertical viewing angles
- VGA, DVI, HDMI[®] (HDCP) signal connectors
- 300 cd/m² brightness
- 2ms gray-to-gray response time
- Tilt adjustment
- Three-year limited warranty²

(ET.UG5HP.001)



Windows[®]. Life without Walls[™]. Acer recommends Windows 7.

Acer[®] Aspire[®] One D255

- Genuine Windows® 7 Starter
- 10.1" display, 1024 x 600 resolution
- 1GB DDR2 SDRAM
- Multi-in-one card reader
- 802.11b/g/n WLAN, 10/100 LAN
- Integrated webcam
- Up to eight hours battery life⁴
- One-year limited warranty²

Acer Aspire One D255

- Genuine Windows® 7 Starter
- Intel[®] Atom[™] Processor N450
- 250GB¹ hard drive
- AOD255-2981 (LU.SDE0D.097)



Acer Aspire One D255

- Genuine Windows® 7 Starter
- Intel[®] Atom[™] Processor N450
- 160GB¹ hard drive AOD255-2520 (LU.SDE0D.126)









Acer[®] Aspire[®] 5553

- Genuine Windows[®] 7 Home Premium
- Acer CineCrystal 15.0" display, 1366 x 768 resolution
- 4GB DDR3 SDRAM
- 320GB¹ hard drive
- Integrated Super-Multi drive

- 5-in-1 card reader
- 802.11b/g/n WLAN, gigabit LAN
- Integrated webcam
- 512MB dedicated video memory
- One-year limited warranty²



Acer Aspire 5553 • Genuine Windows® 7 Home Premium • AMD Turion™ II Dual-Core Mobile Processor P540 AS5553G-5881 (LX.PUA02.071)

\$649

Acer T230H bmidh

- 23" wide TFT LCD
- Touchscreen capable⁵
 1920 x 1080 maximum resolution
- 80000:1 dynamic contrast ratio
- 160°/160° horizontal/vertical viewing angles
- VGA, DVI (HDCP), HDMI" signal connectors
- · 300 cd/m² brightness
- · 2ms gray-to-gray response time
- One 1.5W integrated speaker
- Height, tilt and swivel adjustments
 Three-year limited warranty²
- (ET.VT0HP.001)



Acer B243HL bmdrz

acer

- 24" wide TFT LCD
- White LED backlight
- 1920 x 1080 maximum resolution
- 8,000,000:1 dynamic contrast ratio
- 170°/160° horizontal/vertical viewing angles
- VGA, DVI (HDCP), four USB signal connectors
- 250 cd/m² brightness
- 5ms response time
- Two 2.0W integrated speakers
- · Height, pivot, tilt and swivel adjustments
- Three-year limited warranty² (ET.FB3LP.002)

\$299





Acer® Aspire® Z5700

- Genuine Windows[®] 7 Home Premium
- 23" wide touchscreen with integrated speakers
- 4GB DDR3 SDRAM
- 1TB¹ SATA hard drive
- Super-Multi drive
- Multi-in-one card reader

- Gigabit LAN, 802.11b/g/n WLAN
- Integrated webcam
- Wireless keyboard and mouse
- One-year limited warranty²

acer

Intel[®] Core[™] i3-540 Processor

Genuine Windows[®] 7 Home Premium

Acer Aspire Z5700

AZ5700-U2102 (PW.SDC02.009)

Acer S243HL bmii

• 24" wide TFT LCD

\$999

- White LED backlight
 1920 x 1080 maximum resolution
- 8,000,000:1 dynamic contrast ratio
- 170°/160° horizontal/vertical
- viewing angles • VGA, two HDMI[™] (HDCP)
- signal connectors
 250 cd/m² brightness
- 2ms gray-to-gray response time
- One 2.0W integrated speaker
- Tilt adjustment
- Three-year limited warranty² (ET.FS3LP.001)





Acer[®] Veriton[®] X275

- Genuine Windows[®] 7 Professional
- Super-Multi drive
- Gigabit LAN
- PS/2[®]-style keyboard and optical mouse

Acer Veriton X275

- Genuine Windows® 7 Professional
- Intel[®] Core[™]2 Duo Processor E7600
- 4GB DDR3 SDRAM
- · 500GB¹ SATA hard drive
- VX275-UD7600W (PS.VAM03.016)

\$579

Acer Veriton X275

- Genuine Windows® 7 Professional
- Intel[®] Pentium[®] Processor E6700
- 3GB DDR3 SDRAM

• 320GB¹ SATA hard drive VX275-UD6700W (PS.VAM03.015)

\$499

Acer Veriton X275

- Genuine Windows[®] 7 Professional
- Intel[®] Pentium[®] Processor E5700
- 2GB DDR3 SDRAM

320GB¹ SATA hard drive

VX275-UD5700W (PS.VAM03.014)

\$449

Acer V233H AJbd

- 23" wide TFT LCD
- 1920 x 1080 maximum resolution
- 80000:1 dynamic contrast ratio
 160°/160° horizontal/vertical
- viewing angles
- VGA, DVI (HDCP) signal connectors
 300 cd/m² brightness
- 5ms response time
- · Tilt adjustment
- Three-year limited warranty² (ET.VV3HP.A01)

- 4.0" W x 15.6" D x 10.5" H
- One-year limited warranty² with limited on-site service⁶



Acer V193W EJb 19" wide TFT LCD 1440 x 900 maximum resolution 50000:1 dynamic contrast ratio 160°/160° horizontal/vertical viewing angles VGA signal connector 250 cd/m² brightness 5ms response time 11t adjustment Three-year limited warranty? (ET.CV3WP.E05)



Windows[®]. Life without Walls[™]. Acer recommends Windows 7.





TravelMate Timeline Work smarter, Travel lighter

Acer® TravelMate® 8172

- Genuine Windows[®] 7 Professional
- 11.6" display, 1366 x 768 resolution
- 2GB DDR3 SDRAM, upgradeable to 4GB
- 250GB¹ hard drive
- 5-in-1 card reader
- 802.11b/g/n WLAN, Bluetooth[®], gigabit LAN
- Integrated webcam
- Fingerprint reader
- Up to eight hours battery life⁴
- Optional port replicator available
- One-year limited warranty²



Protect Your Investment with an Acer Notebook Service Upgrade

The Acer notebooks and netbooks featured in this insert come with a one-year standard limited warranty.² For extra protection and peace of mind, consider the Total Protection Upgrade, which covers the cost of a replacement unit if, as determined by Acer, your covered notebook or netbook cannot be repaired. On-site service is available, too, for TravelMate notebooks.

2-Year Extension of Limited Warranty (146.AB820.EX2) for Acer Notebooks and Netbooks with 1-Year Limited Warranty \$99

2-Year Extension of Limited Warranty + 3-Year Limited On-Site Service (146.AD362.001) for TravelMate Notebooks with 1-Year Limited Warranty (On-site service runs concurrently with

limited warranty and limited warranty extension.) \$149

2-Year Extension of Limited Warranty + 3-Year Total Protection Upgrade (146.AD077.002) for Acer Notebooks and Netbooks with 1-Year Limited Warranty (Total Protection Upgrade runs concurrently with limited warranty and limited warranty extension.) \$199

2-Year Extension of Limited Warranty + 3-Year Limited On-Site Service + 3-Year Total Protection Upgrade (146.AD362.002) for TravelMate Notebooks with 1-Year Limited Warranty (On-site service and Total Protection Upgrade run concurrently with limited warranty and limited warranty extension.) \$299

When referring to storage capacity, GB stands for one billion bytes. Some utilities may indicate varying storage capacities. Total user-accessible capacity may vary depending on operating environments Vinen retering to storage capacity, be stands for one billion bytes. Some billiotes may indicate varying storage capacities, iotal user-accessible capacity may vary depending on operating environments. For a free copy of the standard limited warranty end-users should see a reselfer where Acer products are sold or write to Acer America Corporation, Warranty Department, P.O. Box 6137, Temple, TX 76503. 3D content, 3D glasses and an appropriately equipped PC are also required to display 3D images. 1 Depending on model configuration. Actual battery life varies by usage, settings and operating conditions. 1 Touchscreen capability requires appropriate software installed on the PC connected to the display. This software does not come with the display. 1 On-site service applies to the continental U.S. and Canada only and may not be available in all locations. In those areas where on-site service is provided, a technician will be dispatched, if necessary, following efforts to encode the undersone to the locations must

o resolve the problem by telephone support.



© 2010 Acer Inc. All rights reserved. Acer, the Acer logo, Aspire, TravelMate and Veriton are registered trademarks of Acer Inc. Other trademarks, registered trademarks, and/or service marks, indicated or otherwise, are the property of their respective owners. Microsoft, Windows and the Windows logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Pricing is effective from October 15, 2010 through December 31, 2010. Information is subject to change without notice. Prices show are estimated street prices and do not include tax or shipping. Retailer or reseller prices may vary. Product images are representations of some of the models available and may vary from the model you purchase.

Security Alert

Second Wave of Adware Pounds Web Surfers

BY LEAH YAMSHON

NEW ADWARE COMPANIES are increasingly targeting Facebook, Twitter, and other popular social networking sites as a means of distribution. The share-friendly environment of such sites is ideal for spreading adware and trackware through third-party applications, which often hide their true intent.

The Origins of Adware

Adware is software that displays targeted ads when downloaded. It often comes bundled with downloadable games, movies, music files, or software programs, but it usually isn't listed as part of the download. Once on your system, the app tracks your online behavior and serves up ads based on that behavior. The ads may appear as shopping assistants, targeted ads, pop-up or pop-under windows, highlighted keywords,

search toolbars, floating ads, or other annoying extras.

Old-style adware hit its peak around 2003; by 2005 it was common in several downloads and at sites around the Web. Installation methods included bombarding Website visitors with pop-ups, issuing prompts Once considered vanquished, adware has enjoyed a big resurgence in the last year, owing in large part to social networks.

to install ActiveX controls or other software, posing as license acquisition installs for programs such as Windows Media Player, and offering deals in a bundle with peer-to-peer apps.

In late 2005, citing deceptive advertising and computer trespassing, state attorneys general and the Federal Trade Commission began cracking down on adware purveyors. By 2007, adware giant Zango and other major players in the industry had either folded or joined a new software market.

But the talent at Zango dispersed to companies like Loudmo and Pinball Publishing Network, to cultivate a new adware target: social networking sites. Teaming up with third-party app creators, the adware developers embed snoopy code into games and apps that users share with friends and followers.

Many of today's adware distribution strategies deal exclusively with popular social networking sites—specifically Facebook and Twitter-that rely heavily on third-party content.

On Facebook, adware offerings appear masked as games, dating apps, videos, media players, and "sponsored" distributions for real open-source programs such as Mozilla Firefox and Open Office. On Twitter, adware affiliates spam software bundles, such as a free (but adware-tainted) FLV Direct player, so that they show up in common Twitter searches.



Adware distributors also exploit Facebook's 'Like' function to spread their adware programs virally. Recently, a status update appeared on Facebook stating "Poor girl commits suicide after dad posted this on her wall." When you click the link to read the page, an "age verification tool" pops up, and you have to download a gaming program (actually masked adware) to get to the story—which is unrelated to Facebook. If you fall for this scheme, friends will see that you "liked" the story.

Many users are unaware that these apps contain a hidden installation of ad-supported software (the main description of the download doesn't mention it). Companies that cre-

ILLUSTRATION: GARY NEILL

PCWORLD.COM

What type of malware is most common today, and what tactics does it use? See find.pcworld.com/70933 for answers. Should infected PCs be kicked off the Net? Join the discussion at find.pcworld.com/70934.

Security Alert

ate these applications fail to clearly disclose their purpose, which is to collect data and present users with advertisements for the company's financial gain.

Who's Behind It

Eric Howes, spyware research manager for GFI Software, a network security firm, warns users to watch out for apps, games, and video files from companies such as Circle Development, ComScore, Future Ads LLC, Game Vance, Loudmo, Pinball Publisher Network, PlaySushi, and Vomba Network. The software isn't inherently malicious, but adware companies tend not to disclose their intentions up front, and data tracking without consent is a privacy issue.

Though the TrustE privacy seal of approval supposedly "only awards privacy seals to Websites that give you proper notice of its privacy practices," according to TrustE.com, Howe says GFI has found several TrustE seals on Websites of known adware distributors.

To protect yourself from spyware and adware, keep your ad-blocker and antivirus programs up-to-date. Most basic programs will catch adware as it downloads, as long as you have installed the most recent version of the utility on your system. Keeping Windows and Adobe apps current is important, as well: Many adware programs ask you to download a doctored version of these programs that is tainted with adware.

If you click through to one of the ads sponsored by an adware company, check the URL. In many cases, it contains the name of the company, meaning that the data gets sent back to the company when you click one of its ads.

Take the time to read the privacy policies and terms of service for third-party apps before downloading them. A program's description might not allude to adware, but its accompanying privacy policy may mention that targeted ads through trackware are a component of the download package. If you do end up with adware, you can easily uninstall most such programs by using the 'Add/ Remove software' function in Windows.

BUGS & FIXES JAMES MULROY

Multiple Firefox Vulnerabilities Uncovered

THIS MONTH THE makers of Firefox released 15 advisories that address a

wide range of security issues. Meanwhile, Microsoft posted an "out of cycle" update on September 17 for a flaw that (at press time) it was still working to resolve.

A Flurry of Firefox Fixes

Mozilla released 15 security advisories



for September, and it rated 10 of them as 'Critical'. One of the other advisories, which Mozilla rated as 'Moderate', addresses a coding weakness

that could allow malicious JavaScript to run when a user copies and pastes (or drags and drops) selected text on a Web page into a document. Two advisories are rated 'High'. One involves a vulnerability that an attacker could exploit to inject UTF-7 encoded JavaScript into a site and execute it; the other relates to code that could permit an XSS attack.

The ten 'Critical' advisories fix various problems that might allow a hacker to run arbitrary code on your PC and take control of the machine remotely. To correct these shortcomings, you should update your system to the latest versions of Thunderbird, SeaMonkey, and Firefox version 3 (or version 4 Beta). To obtain the update, select Check for Updates from the program's Help menu.

More Microsoft Miscues

Microsoft's Patch Tuesday bundle of cor-



rections for September was fairly robust as well. with a total of nine security updates included. Six of

those updates pertain exclusively to Microsoft Windows, two affect Microsoft

Also: Microsoft works to correct a dangerous exposure in ASP.Net.

> Office (one of those two also relates to Windows), and one addresses vulnerabilities in Microsoft Internet Information Services. Users of all supported versions of Windows-including XP, Vista, 7, Server 2003, Server 2008, and Server 2008 R2-should apply the updates to their systems, as all may be affected.

On September 17 (three days after issuing its regular Patch Tuesday security updates), Microsoft released another update to address a weakness in ASP.Net,

an application that is designed to assist in building Websites, Web applications, and other Web features. An attacker could exploit this flaw to view encrypted data and data files on the target server, and to tamper with any of the content. At this writing, Microsoft was continuing to work on a security patch for the ASP.Net problem.

For maximum safety, always be wary when you encounter unknown or abnormal links or receive unsolicited e-mail messages. Using your system's default firewall settings can protect you against some of these hazards. And of course, you should install the fixes as soon as possible, using Windows Update. To learn more about each update-and to download them manually-visit find.pcworld. com/70922 (for the September Patch Tuesday advisories) and find.pcworld. com/70923 (for the ASP.Net advisory).

BUGGED?

FOUND A HARDWARE or software bug? Send us an e-mail on it to bugs@pcworld.com.

WHAT'S the BUSINESS PROBLEM? -

FORMISSINGMATION

- MOITAMAOANI DNIZZIM -

the QWEST SOLUTION: Ever-increasing threats to security mean you have to go to greater lengths to keep critical data from disappearing. Fortunately, Qwest's voice, data and networking solutions are created with today's complex security challenges in mind. So you can keep your business safe and your sensitive information from going MIA. Solve more problems at qwestsolutions.com.



Solve problems on the go. Download Qwandary for the iPhone,



Expyright @ 2010 Owest. All Rights Reserved.

Security Alert



Highly Persistent Browser Cookies

IF YOU DISLIKE having your Web browsing history tracked, you probably delete cookies and clear your browsers' caches regularly. But Evercookie, written in JavaScript, produces "extremely persistent cookies" that can identify a computer even after you've removed standard or Flash cookies, according to Threatpost (find.pcworld.com/70919).

Evercookie stores cookie data in your browser in several ways—HTTP, Flash, force-cached PNG images, various HTML5 storage systems, Web history, and SQLite. If Evercookie detects that you've been deleting your cookies, the program re-creates them.

According to Threatpost, Evercookie author Samy Kamkar, who spawned a MySpace worm in 2005, created the deletion-resistant cookie to increase public awareness of privacy issues raised by tracking cookies—whether traditional HTML or Flash. The opensource code is available at Kamkar's Website for free downloading.

One way around Evercookie's persistence is Safari's Private Browsing feature, which blocks all of the cookie's methods. Other browsers might stand up to Evercookie's methods of cookie resuscitation, as well; Kamkar has not performed exhaustive testing.

Be careful about which browsers you accept cookies from. Keep tabs, too, on the developing HTML5 standard, which some critics say emphasizes functionality at the expense of security.

-Alessondra Springmann

PRIVACY WATCH NICK MEDIATI

Privacy in iTunes' Ping Social Network

PING, APPLE'S musiccentric social network, is integrated into iTunes 10. Its privacy features are

more straightforward than Facebook's, but the services Ping offers are limited. Here's a quick rundown of the privacy features that Apple includes in Ping.

By default, Ping is switched off; but if you click 'Ping' in the source list located on the left side of the main iTunes window, you'll see a message describing what Ping is, and a button for opting in.

Profile Setup

Once you switch Ping on, a step-by-step wizard takes you through setting up your account profile and adjusting your privacy settings. Ping requires you to provide

your name and gender; the rest of the fields (for your location, photo, and bio) are optional. If you change the name displayed in your Ping profile, the billing name for

your entire iTunes account changes, too. People who may use their full names for billing purposes, but go by a nickname otherwise, may not like this arrangement.

You can specify whether Ping should automatically display anything you've rated, reviewed, or bought at the iTunes Store, whether you'd prefer to pick and choose the music you like, and whether you wish to hide your musical tastes from all your friends (thereby avoiding any and all ridicule you would endure for purchasing that Taylor Swift album).

Ping lets you choose between approving people who want to follow you and turning off following altogether. Anyone who turns on follower approval will be able to see your e-mail address in addition to your name and profile photo.

In no-follow mode, Ping lets you fol-

Music gets gregarious in iTunes 10, with Apple's Ping social network. We take a look at its privacy and security settings.

> low others but won't permit anyone to follow you. Another feature of this mode: Your name and photo will appear only in certain instances, such as when you write a review or post a comment.

Genius Sidebar Update?

iTunes 10.0.1 adds the Ping sidebar, which appears to be an update of the Genius sidebar present in previous versions of iTunes. When you turn on the Ping sidebar, Apple can use information about the contents of your iTunes Library (and other information that you provide as part of your iTunes account) to show such cus-



tomized content in the Ping sidebar as music similar to songs you select in the Library, along with suggested Ping users to follow.

Interestingly, Apple appears to

be vetting profile photos for Ping—to judge from the language used on its profile settings pane: 'Once your photo is approved, it will appear next to any previous reviews you have written with this account.' Presumably Apple is checking the photos to filter out anything potentially offensive (good luck with that).

Ping can't function outside the iTunes application. You can't add any apps to your profile, and no programming tools exist for it, so software developers can't create Ping clients (apps similar to all the Twitter clients out there). This setup may make Ping safer than most traditional social networks, but that doesn't mean it can't be a target of spam, phishing scams, or social-engineering attacks. In fact, spammers are already hopping on the Ping bandwagon.

44 PCWORLD.COM DECEMBER 2010

L E G A C Y

DISNEY

In theaters December 17

INTERNET SEGURITY FT LIGHT SPEED

Derezz threats in your own digital world with ESET Smart Security[®]. ESET enhances your system's overall performance and stops new threats before they attack, keeping you ahead of viruses, spyware, spam, and other online dangers.



I'

Visit **www.eset.com/tron** for your chance to win an ESET-protected Dell computer, LED TV, Tron merchandise, movie tickets and more — **\$25,000 in prizes**. ESET Smart Security 4

Dell model shown may not be the exact model awarded in the sweepstakes. The actual prize will be of equal or greater value. No purchase necessary to enter or win. Void where prohibited. Open to legal residents of the 50 United States (including District of Columbia), 18 years of age or older. For entry details and full Official Rules, visit www.eset.com/tron. Promotion ends 1/31/11. Sponsored 2010 by ESET, LLC, 610 W Ash Street, Suite 1900, San Diego, CA 92101.



Cut the Cord: Low-Cost and Free Landline-Phone Alternatives

Begone, monthly phone bill! Smart alternatives like the NetTalk Duo, Ooma Telo, and YMax MagicJack offer you full-featured phone service at a fraction of the cost of regular landline service.

THE HOME TELEPHONE has become superfluous: One in five homeowners have abandoned their landlines in favor of cell phones.

I'm not ready to do that. Cell phones make woefully inconvenient home phones because they don't stay put, they run out of juice at bad times, and they're notorious for dropping calls indoors.

No, I want home-phone service in my home. But I'm done paying a monthly bill for it. Thanks to some new (or improved) products and

MORE ONLINE

For complete reviews of the four landline-phone alternatives we tested for this story, go online to find.pcworld.com/70935.



services, I can keep the conversation going for far less than the cost of a traditional landline—or Internet phone services like Vonage.

YMax MagicJack

This Zippo-lighter-size gizmo costs around \$40 for the hardware plus a year of unlimited long-distance and local calling. After that, service costs just \$20 per year.

The service covers voicemail, call waiting, caller ID, and free 411 (directory assistance) calls. You can dial in to get voicemail messages or have the service deliver them automatically by e-mail as audio attachments.

Portability is one of the

MagicJack's best assets. You can plug it into any computer anywhere, and as long as there's a broadband connection (even via a 3G modem), you'll have a dial tone.

The device occupies a PC's USB port, however, and the computer must stay on if you want to make or receive phone calls—not ideal for a



person seeking a full-time home phone (though you can dedicate a spare PC as a "phone server").

The MagicJack performed quite well most of the time. When I had it plugged into a desktop wired to my router, incoming and outgoing calls were consistently loud and clear. But when I relied on a netbook linked via 802.11g Wi-Fi, some calls dropped.

The only support option is online chat, assuming you can find it on YMax's hideous, infomercial-inspired Website. When I did, I was quickly connected to an online tech who provided helpful, courteous answers to my questions. Still, the lack of a customer-service department reachable by phone gives me pause.

Test the MagicJack for yourself before committing to it. If nothing else, it will make a fine second line that the kids can use without tying up the home phone and racking up huge bills.

NetTalk Duo

A kissing cousin to the MagicJack, the NetTalk Duo works in much the same way, except that you can plug it into your PC *or* your



★ ★ 🖈 👘 VERY GOOD

MagicJack : YMax Portable device offers solid, reliable phone service for peanuts. List: \$40 (with 1 year of service) find.pcworld.com/70887

router, the latter yielding a phone-service experience closer to what Vonage offers. It costs \$70 up front (hardware plus first year of service) and \$30 annually from then on—still a great deal.

To use the Duo with my PC, I had to download and install a USB driver. (In contrast, the MagicJack stores its software in memory.) At press time, the 64-bit version of the driver was still in beta, resulting in several warning messages as I installed it on my Windows 7 system. And unlike the MagicJack, which plugs directly into a USB port, the Duo requires a cable.

In the number-selection process, NetTalk offered choices that reflected both my area code and my city. But unlike the Ooma Telo and the MagicJack, it didn't let me choose the last four digits—it just assigned them.

On the flip side, the Duo offers a few more calling features than its rivals. In addition to caller ID, call waiting, and voicemail, you get voicemail delivered via e-mail as an audio attachment, free 411 calls, three-way calling, and Google Voice-style call forwarding: You can have calls to your Duo number ring your mobile phone, work phone, and any other numbers you want. Alas, you can't yet port your existing number to the Duo.

In my tests with a router connection, the Duo performed flawlessly, delivering



★★★★ ★ VERY GOOD

Plugged into a router, low-cost phone line matches landline quality. List: \$70 (with 1 year of service) find.pcworld.com/70888 loud, clear calls—even as my BitTorrent client did some heavy-duty file sharing. With a PC connection, however, just getting a dial tone was iffy—and when it worked, I noticed some static on the line. (The scratchy audio may be a beta-driver issue that NetTalk will correct.)

NetTalk's toll-free tech support is available seven days a week, or you can submit a ticket online. When I did this on a weekday, I received a problem-specific, human-typed response within about 20 minutes.

The ability to plug directly into your router gives the NetTalk Duo a sizable advantage over the MagicJack. It has more calling features and support options, too. If you don't mind losing your current phone number, it could be a great match for you.

Ooma Telo

Though it hits your wallet with a \$250 hardware charge, the Ooma Telo promises free local and long-distance service for life. Granted, the standard package's service offers little more than caller ID and voicemail, but putting an end to paying for phone service forever has »

some allure. (If you can't live without a monthly phoneservice bill, you can pony up \$10 per month for Ooma Premier, which offers many extra calling features.) The Ooma Telo is easy to install: Just plug it into your router and set up your account on the company's Web portal, and you're ready to dial.

In my tests using an old Uniden cordless phone system and Ooma's fancy Telo Handset (\$50), Ooma's call quality was far superior to that of Vonage or Google Voice, with crisp, echo-free audio every time. The Telo Handset's optimized design for the service supports onebutton voicemail retrieval and permits syncing with Outlook 2007 contact lists.

Ooma offers a couple of interesting extras not available from Vonage or any other VoIP service. One is an optional Bluetooth adapter (\$30) that pairs your cell phone with your Telo so you can answer incoming mobile calls on your home phone. The other is the ability to use your Bluetooth headset for calls around the house.

A Skype-like Ooma app for iPhones (\$10) lets you make calls over 3G or Wi-Fi, with your own phone number



*** * * VERY GOOD Telo | Ooma The single best landline replacement you can buy. List: \$250 (with free service) find.pcworld.com/70889



appearing as the caller ID at the other end. Regrettably, Ooma charges 1.9 cents per minute for calls to anyone except other Ooma users.

The Ooma Telo may have a higher up-front cost than other services, but if you skip the Premier subscription, it's guaranteed to save you money in the long run.

Google Voice

The free Google Voice service isn't designed to replace a landline phone, but it does provide some interesting options for alternative service, starting with a new phone number intended to become your primary number for life. When someone calls it, Google Voice will ring your home phone, your work phone, your cell phone, or any combination of any phones you want.

Google Voice offers free calls to the United States and Canada (but only from your PC). Amenities include call screening and blocking; customized greetings for specific callers; and voicemail transcription, in which the service converts messages into stored, searchable text and (if you wish) delivers them via e-mail or SMS. In my tests, transcription quality varied. (Google's guesses were laughably bad at times.)

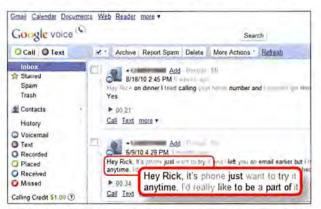
OOMA OFFERS an optional Bluetooth adapter (\$30) that pairs your cell phone with your Telo so you can answer mobile calls on your home landline phone.

Another cool perk is the recording of inbound calls; press 4 on your on-screen keypad to start recording. After you stop the recording (by hanging up or pressing 4 again), you can access the audio file just as you would a voicemail message.

At managing inbound calls, Google Voice is second to

the call. Such calls are free when they're directed within the United States or to Canada, and international rates are dirt-cheap; but you still need to have some kind of existing phone service.

If you install the Google Talk video and voice plug-in, you can make and take calls via your browser, Skypestyle. Of course, adopting this approach requires a headset or Webcam, and being tethered to a PC isn't my idea of convenient. Still, I found the call quality adequate, though callers reported that I sounded as if I were talking through a computer microphone-which I was.



YOU CAN ARRANGE for Google Voice to create and deliver searchable text transcriptions of voicemail messages to your e-mail inbox.

none. You can search and share voicemail messages just as you do e-mail, set up do-not-disturb hours, and even add a Google Voice widget to your blog or Web page: One click, and the caller is connected to you.

Outbound calls, however, are far from Google Voice's forte. You can make an outgoing call via your Google Voice account page, but the service just rings the phone you choose (home, mobile, or whatever) and then places Also, I found that any heavy file-transfer traffic (such as from BitTorrent) caused noticeable audio degradation. -Rick Broida



Google Voice Google Service makes managing multiple phone numbers much easier. Free find.pcworld.com/70890

Good-bye SIUGGOMORBUS

Hello SuperSpeed USB



Sluggomorbus strikes when slow transfer rates make you wait for photos to upload, files to copy and devices to sync. Symptoms include: lack of patience, falling asleep, transfer rage, irritability, toe tapping and obscene gestures. SuperSpeed USB has the ability to work 10x faster than Hi-Speed USB, allowing you to transfer much

more in a much shorter amount of time. Using SuperSpeed USB, you will be feeling like your old self in no time at all. For more information, **visit www.usb.org**.

Ask your retailer if SuperSpeed USB is right for you.



WARNING: SuperSpeed USB could result in: disbelief, awe, spontaneous celebration, shock, speechlessness and arriving on time to presentations.

Brought to you by USB Implementers Forum. @2010 USB-IF

Visit **MICRO CERCER** stores for the latest SuperSpeed USB products

Adobe's Elements Apps Bring Useful Additions

PHOTOSHOP Elements and Premiere Elements, Adobe's consumer image and video editors, get minor makeovers in their ninth version.

Adobe offers a \$140 Plus edition of each that includes 20GB of online storage, along with access to more how-tos and extras in the Inspiration Browser that accompanies the apps. All that is fine but 20GB of storage space on Photoshop.com costs just \$20 a year. So you're paying an extra \$20 not to be annoyed by the locked Inspiration Browser content.

The company's dual-app bundle, however, represents a notable value: For \$150, you can have both Elements programs (minus the Plus extras), knocking \$50 off the cost of buying the two standard apps individually.

Enhanced Features

In Photoshop Elements 9 (\$100), the Guided Editing mode offers several new effects. If you had the knowhow, you could probably pull them off without step-bystep help. Likewise, the new "Perfect Portrait" feature merely steps you through various editing tools, such as the one for red-eye removal.



CREATING HIGH-DEFINITION 'Web DVDs' with slick-looking menus is simple in Premiere Elements 9.

You get new options to make projects-photobooks, say-for which Photoshop Elements arranges images in an attractive layout that you can print yourself or upload to Kodak Picture Gallery or Shutterfly. You can monkey with the layout, of course; but by clicking a button, you can switch to "advanced" mode, which allows you to make edits with any tool. However, the program creates many layers, and working on them isn't always easy.

One new Premiere Elements 9 (\$100) feature is the ability to create Web DVDs, high-quality online movies with DVD-like menus. Web DVDs have a few advantages over regular videos—the opening interface looks and sounds slick, and viewers can fast-forward to chapter points. Your video can be in high definition, too (DVDs are only standard resolution).

Premiere Elements has new fixes for audio issues. At their defaults in my tests, they often reduced the audio clarity as they lowered hum, pop, and hiss. But if you pick the right effect—I had luck using Audio Polish—and play with the settings, you can improve the audio quality.

Awkward Organizer

Unfortunately, for both Elements programs, Adobe's organizer remains a separate application, and that makes working with items clunky. For example, to perform substantive edits on a photo in the organizer, you select the image, click a 'Fix' tab, choose an editing mode, and wait for the editor to load. You'll then have two Photoshop Elements icons in your taskbar—one for the organizer, one for the editor and the applications' interfaces look very similar.

Each Elements program is a powerful, complete package, but I wish Adobe would rethink its organizer. Trying to recall which app does what is harder than remembering where I left my keys. —Alan Stafford

*** * VERY GOOD

Photoshop Elements 9 | Adobe Has great creative tools, but the organizer remains unintegrated. List: \$100 (\$150 two-app bundle) find.pcwarld.com/70914

**** VERY GOOD

Premiere Elements 9 | Adobe This fairly minor upgrade is still excellent, especially given its price. List: \$100 (\$150 two-app bundle) find.pcworld.com/70915



SOME ELEMENTS HOW-TOS and creative extras remain locked unless you pay for the Plus edition.

Workloads will grow. Your number of servers doesn't have to.

As a smarter planet generates more and more data, the strains on existing infrastructures intensify. Yet in today's competitive business environment, midsize businesses need more performance with fewer resources. Fortunately, a solution now exists from IBM: the first x86 servers with memory decoupled from their processor, which eliminates the need to buy additional servers to support growing workloads. It's enterprise-level performance without enterprise budgets. Here's how IBM and our Business Partners can help you work smarter:



Get up to 261% more performance. The IBM System x3690 X5, featuring the Intel[®] Xeon[®] processor 7500 series, is the first scalable 2-socket system designed to offer the performance, memory capacity and reliability of an enterprise 4-socket system.¹



Simplify your IT. The new x3690 can accomplish the same job as 33 servers² from previous generations. Consolidating your aging servers can simplify your IT while minimizing server sprawl, and can help reduce the costs of managing multiple systems.

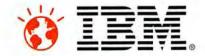
Gain 82% more virtual servers for the same license cost³. Now you can virtualize to reduce complexity. With IBM's unique MAX5 memory that scales independently of the processor, you'll have the available memory you need for your demanding virtualization environment.

The IBM System x3690 X5 is designed and priced with midsize businesses in mind. Starting at \$275 per month for 36 months.⁴

Learn how you could see ROI in as little as 3 months. With increased performance and simplified IT, you can dramatically reduce overall IT costs such as power, cooling and facilities by up to 98%.²

Midsize businesses are the engines of a Smarter Planet.

Connect with an IBM Business Partner now and start reaping the benefits of smarter systems. Call **1-877-IBM-ACCESS** or visit **ibm.com**/systems/x3690 to access the IBM Systems Consolidation Evaluation Tool.



"Based on 3-party nencrinark result SPEC GPU2006 comparing previous generation system with inter kern 5-010 Harperbann 333640 processors to read generation System x3001 k5 with likel kern X7560 processors." Return on investment and power savings calculation hazed on 33-1 consolidation ratio scenario of 200 hiz. 2-social servers to 6 BM x3669 K5 servers and savings in energy casts, withware licente fields and other operating costs. Actual casts multi-savings will wary depending on individual castomer configurations and environment, "Based on one IBM x3669 X5 servers" and savings in energy casts, withware licente fields and other operating costs. Actual casts multi-savings will wary depending for individual castomer configurations and environment, "Based on one IBM x3669 X5 servers" and 2 processors (4 bMMs) are compared to an individy-standard 2-processor (4 bMM system casts) and savings will wary depending for individual castomer configurations and society servers and savenges of early depending on servers and servers in the server and servers and processors (4 bMMs) are compared to an individual castomer (4 bMM system) for servers and servers and the operation servers (500), monthy payments and early and early early table of the variable of savents and and servers in the linked states and and servers in the linked states and and servers in the linked states with well ware restaurants and and servers and and servers in the link dop month, for early restaurant table and ther operation servers of the table and ther operation servers of the table of the states within the content and for state and the isolated there ware to the state of the table of the states withing the top top top containes of table states and the states and table on the Web at we transmission of themational Business A former link (4 bM transmarks to most the table device) that states and the operation 2010. The table devices that kees is the table of kees of table devices and table on the Web at wwwith toordarises intor to the containes t

Reader Pocket Edition: Light, Pricey

THE SONY READER Pocket Edition PRS-350SC (\$180; the "SC" model is silver, while "PC" designates the pink version) uses Sony's optical technology to allow fingers to tap away on its 5-inch E-Ink Pearl display.

At just 5.6 ounces, it's easy to hold in one hand while you're curled up on the couch. I found the dis-

*** VERY GOOD **Reader Pocket Edition** PRS-350SC | Sony

This small e-reader charges a premium for the great touchscreen. List: \$180 find.pcworld.com/70913

play brighter and dramatically sharper than Sony's older touchscreen technology, with better contrast and clarity, plus crisp grayscale images. Making selections requires only featherlight touches. You touch to turn pages, as well as to get one of the 12 pop-up dictionaries.

Below the screen are several buttons, including those for zoom and options. The built-in stylus is at the upper right. The unit charges via a micro-USB port. It has both Memory Stick and SD Card slots, plus 2GB of storage. The options allow you to adjust both contrast and brightness, a first among the

e-readers I've seen. You can also pick from six font sizes, XS to XXL.

One big weakness: No 3G or Wi-Fi. The latest Amazon Kindle with Wi-Fi and 3G sells for just \$10 more, and adds an inch to the screen. You pay a steep price for the slick design of the highly portable Reader Pocket Edition.

Still, among the 5-inchscreen e-reader set-which includes models from lesserknown makers such as Aluratek and Bookeen-Sony has leaped to the head of the



TOUCH NAVIGATION ON the Pocket Edition feels natural.

pack. If you want an e-reader in a paperback size, the Sony Reader Pocket Edition is the best such unit you can get. -Melissa J. Perenson

2.5"& 3.5" HDD

vmware

CITRIX

READY

Dual-Core

inte

Atom

RNAP All-in-one Network Storage and Virtualization Solution for Business Environment

- All-in-one powerful business-class server features
- Leading iSCSI storage for server clustering and virtualized environments
- Built-in iSCSI initiator for stackable capacity expansion
- Complete backup solution including cloud-based and Apple Time Machine backup
- Dual Gigabit LAN: Failover, load balancing & multiple IP setting
- Single Disk, JBOD, RAID 0/ 1/ 5/ 5+hot spare/ 6/ 6+hot spare
- Online RAID capacity expansion
- Online RAID level migration
- AES 256-bit volume-based data encryption
- Powerful management software v3.3 free upgrading include MSV2, QMobile App for iPhone/Android mobile devices, ISO Mount, Network UPS, System migration...and more



WWW.qnap.com Tel: 909-595-2819 ext 186 E-mail: usasales@gnap.com

Sony Dash: More Than Just an Alarm Clock

BASICALLY A Chumby Internet appliance (find.pcworld. com/70912) gussied up with sleek industrial design and widgets, the \$180 Sony Dash HID-C10 offers prepackaged nuggets of the Internet's greatest hits on its 7-inch capacitive touchscreen.

About 7.5 by 5.5 inches, and 2.4 inches at its base, it

weighs 1.2 pounds. The 800by-480 display is bright and crisp, but the touchscreen isn't nearly as responsive as those on iPhones or iPads.

I saw latency in downloads; images, headlines, and Facebook and Twitter feeds took seconds to appear, and videos loaded slowly. Once the videos started, they streamed smoothly over my home network. I wish the audio were more robust, however.

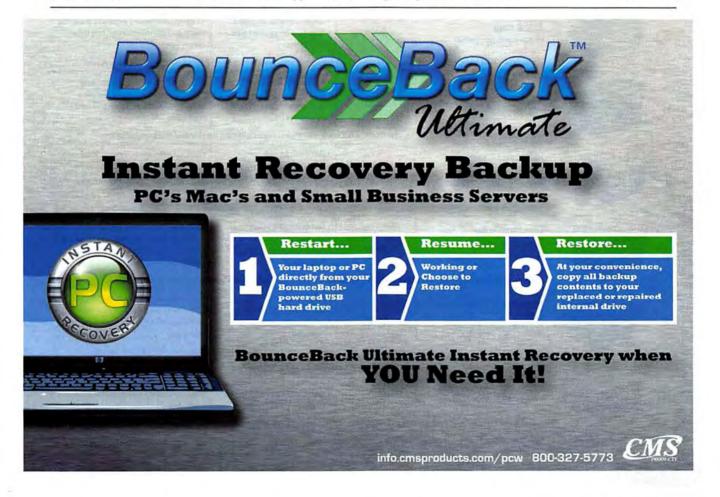
The Dash defaults to a few preset apps, while a larger window has material from a customizable app "channel." A 'Themes and Apps' button



THE DASH GIVES you access to dozens of sites and services.

gives access to layouts and channels. You can get rid of Sony's presets by switching to the App View theme, for instance. You can also create channels; I easily set up one with news, social networking, and photo sites, as well as a couple of little games. A software keyboard pops up when needed. Its buttons don't always respond well and without predictive text entry, typing can take a while. But it gets the job done.

-Yardena Arar



Top 10 Inkjet Multifunction Printers

Canon's Pixma MG8120, with smooth text output and decent speed, takes the lead spot.



CHART NOTES: Ratings are as of 10/1/10. Speeds are in pages per minute (ppm); resolutions are in dots per inch (dpi).

MORE ONLINE

Visit find.pcworld.com/62965 to see in-depth reviews, full test results, and detailed specs for all printers on this chart.

There's Fast And Then There's V FAS Up to 76 MBps!

The New V-Series of LinkStation Network Hard Drives

The new V-Series line of LinkStation shared storage solutions is Buffalo's fastest consumer solution for central storage and backup for all PC and Mac[®] computers on your home network. Share storage capacity along with multimedia and data files with anyone on your network as well as friends and family over the Internet. Buffalo's free WebAccess service along with the new free WebAccess i apps for iPhone® and iPad® offer a simple way to access your files on-the-go, from any computer or mobile device. With shared storage capacities up to 8 TB, RAID technology and NovaBACKUP® Professional software, LinkStation is the safe, reliable and cost-effective shared storage solution.

This line of LinkStation NAS is up to 2X faster than standard NAS devices.

amazon.com DELL Frus

LinkStation Pro LinkStation Pro Duo

BUFFALD

LinkStation Pro Quad

V

NOVASTOR



BUFFALD

Link Station

© 2010 BUFFALD INC. AI rights reserved, BUFFALD or BUFFALD logo are either trademarks or registered trademarks of MELCO HOLDINGS INC. LinkStation, LinkStation Pro, LinkStation Pro, LinkStation Pro, LinkStation Pro, District Pro, Distributed Pro, District Pro Quad are trademarks of BUFFALD INC. or its affiliates in the United States and other countries. Apple, Mac, Runes, Phone and Prod are registered trademarks of Apple Inc. NovaBADDIP and NovaStor Kogs are emarks or resistered trademarks of NovaStar Corporation in the United States and/or other countries. The names or logiss of other companies o

MICRO GENGER



V

Envy 17: For Windows Users With Mac Envy

WEIGHING 8 pounds without the power brick, HP's Envy 17 is barely thicker than an inch and offers robust media capabilities.

Our test unit had a 1.6GHz Intel Core i7-720QM CPU with a peak turbo-boost frequency of 2.8GHz, 8GB of DDR3-1066 RAM, a Blu-ray drive, and the AMD Mobili-

**** SUPERIOR Envy 17 | HP

Robust, media-centric laptop is still svelte enough to lug around. List: \$1825 find.pcworld.com/70865

ty Radeon HD 5850 (with 1GB of video memory). The price of our system is a steep \$1825; the base configuration starts at around \$1400.

With a WorldBench 6 score of 86, its performance is only average for a desktop replacement. On game tests, it fared pretty well; you'll have to dial down graphics settings a notch, but you should see strong frame rates and good image quality.

After getting past my initial dislike of the 17-inch, 1080p glossy screen, I found the color balance in games and movies pleasing. Video playback was uniformly excellent. HP'S SLEEK AND glossy Envy 17 excels at movie and video playback.

On the right are two USB 2.0 ports and a five-in-one flash card reader. The left side has one USB 3.0 port and a USB/eSATA port, along with HDMI and mini-DisplayPort outputs.

The feel of the keyboard is quite nice, with excellent tactile feedback. The touchpad seems a little twitchy.

One concern worth noting

is heat. The fan grew noticeably loud when we ran our game tests, and the keyboard surface became warm in places. It wasn't too hot to touch, but clearly a lot of heat is being generated in a tight space. That's the downside of building a high-performance system into a compact package. -Loyd Case

Samsung Q430 Cuts Corners but Still Seems Nimble

THE SAMSUNG Q430 zips through work and play-but a dull screen and cut corners hold it back.

A Best Buy exclusive, the Q430 costs about \$830 and delivers a mostly solid lineup of components. Armed with a 2.4GHz Intel Core i5 CPU, 4GB of RAM, nVidia

ductivity software to games. It nimbly juggles open programs, too, letting you multitask with ease. Battery life is another highlight: It ran for 4 hours, 16 minutes on a single charge in our tests.

The laptop's input devices are undistinguished. The keyboard works adequately.

The touchpad feels only slightly different from the palm rest, though, which causes swipes to carry too far. Worse, it stops registering movement a full fingertip from its edges.

The 14-inch glossy display is 1366 by 768 pixels, but it skimps on color and contrast. You'll have to crank up the brightness to the maximum. At lower settings, blacks and grays begin to merge.

Audio performance is fine for a laptop, but not outstanding. Music and dialogue favor high tones and can sound garbled, as if you were listening to a conversation from across the room.

You get three USB 2.0

THE Q430 IS a good midrange laptop for general use.

ports, HDMI, VGA, audio-in and -out, a Webcam, and a flash-card reader, as well as 802.11 b/g/n support. Although it has a 100Base-T ethernet port, it offers nothing for gigabit ethernet.

Among the few software extras is the CyberLink DVD suite for use with the builtin DVD burner. Far less welcome is the Best Buy Software app, which pops up at each launch. You also get the Google Toolbar and other needless additions. -Zack Stern

*** ** ** GOOD

Q430 | Samsung

This laptop's strong speed and battery life offset its skimpy features. List: \$830 find.pcworld.com/70874



from pro-

APC revolutionizes the UPS... again.



Cutting-edge UPS technology from the inventors of Legendary Reliability.

What do you get when you combine 25 years of Legendary Reliability[™] with the latest in UPS technology? Introducing the new APC Smart-UPS[™] range of interactive, intuitive, and energy-saving UPSs, designed to protect critical server and network equipment from power threats and downtime.

New APC Smart-UPS: Smarter. Easier. Greener.

Thanks to millions of dollars in research, APC can proudly claim that only the new Smart-UPS features the unique battery life expectancy predictor, telling you the exact month and year for battery replacement. Precision temperature-compensated charging extends battery life; unique power meter function monitors energy usage; and a patent-pending "green" mode boosts online efficiencies up to 99 percent, saving on utility costs. Plus, the interactive LCD provides detailed status, configuration, and diagnostic information previously available only via software.

When dollars count and performance is critical, insist on the more intelligent, more intuitive APC Smart-UPS. Now more than ever, the name on the outside guarantees reliability on the inside: APC Smart-UPS.



Intuitive alphanumeric display: Get detailed UPS and power quality information at a glance – including status, about, and diagnostic log menus in your choice of up to five languages.



in Judgos,

Configurable interface: Set up and control key UPS

parameters and functions using the intuitive navigation keys. On rack/tower convertible models, the display rotates 90 degrees for easy viewing.



Energy savings:

A patent-pending "green" mode achieves online efficiencies approaching 99 percent, reducing heat loss and utility costs.



Download a FREE copy of APC's White Paper #10, "Preventing Data Corruption in the Event of an Extended Power Outage." Visit www.apc.com/promo Key Code w441w • Call 888-289-APCC x4945 • Fax 401-788-2797



©2010 Schneider Electric Industries SAS, All Rights Reserved. Schneider Electric, APC, Legendary Reliability, and Smart-UPS are owned by Schneider Electric, or its affiliated companies in the United States and other countries. e-mail: esupport@apc.com • 132 Fairgrounds Road, West Kingston, RI 02892 USA • 998-2150

Top 10 Budget Desktop PCs

The slim Gateway SX2840-01 midsize tower provides excellent general performance.



MODEL		Rating	Performance	Features and specifications
1	BEST Gateway SX2840-01 \$559 Find.pcworld.com/69988		• WorldBench & score: 118 • WorldBench & rating: Superior • Overall design: Fair	• 2.93GHz Core i3-530 • 6GB RAM; ITB storage • Intel integrated graphics • DVD±RW
-	 Despite one lapse in connection 	options and limited upgrad	ability, the SX2840-01 is a speedy litt	le monster with a very good price.
2	HP Compaq 6005 Pro Small Form Factor PC \$899 find.pcworld.com/69989	VERY GOOD	WorldBench & score: 128 WorldBench & rating: Superior Overall design: Fair	• 3.0GHz Phenom II X4 895 • 4GB RAM; 400GB storage • ATI Radeon HD4200 • DVD±RW
	HP delivers a business PC that's	certainly fast for its smallis	sh size, but leaves out details that co	a stranger and address
3	Acer Aspire M3400 S600 NEW find.pcworld.com/70891	VERY GOOD	• WorldBench & score: 110 • WorldBench & rating: Very Good • Overall design: Good	• 2.8GHz Phenom II X4 820 • 6GB RAM: 640GB storage •ATI Radeon 5450 • DVD±RW
-	 Acer's M3400 puts up a good fight 	ht-but in terms of features	, similarly priced competing systems	are just a bit better.
4	Dell Inspiron 580s \$529 find.pcworld.com/69991	**** GOOD	• WorldBench & score: 119 • WorldBench & rating: Superior • Overall design: Fair	• 2.93GHz Core i3-530 •4GB RAM; 320GB storage •Intel integrated graphics • DVD±RW
4	 Storage space is lacking, and the 	e case leaves much to be de	sired, but you can't argue with the pe	rformance—or the price.
5	HP Pavilion p6540f \$780 NEW find.pcworld.com/70892	***** GOOD	• WorldBench & score: 115 • WorldBench & rating: Superior • Overall design: Fair	• 2.8GHz Phenom II 830 • 8GB RAM; ITB storage • ATI Radeon HD 4200 • DVD±RW
	 HP's p6540f is a great PC for the 	everyday user; if you're loo	king to upgrade or to play games, ho	wever, look elsewhere.
6	Gateway SX2311-03 S599 NEW find.pcworld.com/70893	***** GOOD	WorldBench & score: 108 WorldBench & rating: Very Good Overall design: Fair	• 2.8GHz Phenom II X4 820 • 4GB RAM; ITB storage • nVidia GeForce 9200 • DVD±RW
-	Gateway's miniature desktop sir	mply doesn't have room for	anything extra, and its lack of space	versus rival systems is troublesome.
7	Acer Veriton X480G \$599 find.pcworld.com/69992	***** GOOD	• WorldBench & score: 120 • WorldBench & rating: Superior • Overall design: Fair	• 3.1GHz Core 2 Duo E7600 • 3GB RAM: 640GB storage • Intel integrated graphics • DVD±RW
	 Acer's X480G does a pretty good 	l job of keeping up with the l	best budget PCs, but tough competiti	ion stands between it and top honors
8	HP Pavilion p6330f \$599 find.pcworld.com/69990	**** GOOD	WorldBench & score: 118 WorldBench & rating: Superior Overall design: Fair	• 2.93GHz Core i3-530 • 6GB RAM; 1TB storage • Intel integrated graphics • DVD±RW
-	 The performance is strong and t 	the price is right, but a lack	of advanced connectivity options ma	rs this budget desktop.
9	Acer Aspire X3400 S600 NEW find.pcworld.com/70894	★★★★ FAIR	WorldBench & score: 104 WorldBench & rating: Very Good Overall design: Fair	• 2.9GHz Athlon II X3 435 • 4GB RAM; 500GB storage • nVidia GeForce 9200 • DVD±RW
	► Acer's inexpensive Aspire X3400) makes a strong showing fo	r a reasonable price, and provides a l	arge number of USB ports.
10	eMachines ET1831-07 \$390 find.pcworld.com/69993	★★★★★ FAIR	• WorldBench & score: 101 • WorldBench & rating: Good • Overall design: Fair	 2.7GHz Pentium Dual-Core E5400 4GB RAM; 750GB storage nVidia GeForce 7050 DVD±RW
_	Offering canable performance a	nd a stallar price ton the el	Machines ET1831-07 may not top the	charts, but it is a great value.

MORE ONLINE Visit find.pcworld.com/70016 to see in-depth reviews, full test results, and detailed specs for all desktops on this chart.

PHOTOGRAPHS' ROBERT CARDIN



Concert for one

P5 Mobile Hi-Fi Headphones What's it to be? The rush-hour commute, the stuffy office, the line at the local supermarket? Or the control room at Abbey Road Studios, a box at the Met, the front row at CBGB in 1976? The noise-isolating P5. It's not a set of headphones. It's a transportation device. Listen and you'll see. www.bowers-wilkins.com/p5 | Available at Apple stores and apple.com

Livescribe's Slick Echo Smartpen Adds Features

LIVESCRIBE'S first-gen smartpen, the Pulse, offered an innovative approach to digitizing, organizing, and tying audio to handwritten notes. Now the Echo, the company's second-generation smartpen, has arrived.

This pen packs more memory (4GB for \$170 or 8GB for \$200) and a sleeker, moreergonomic design than the Pulse. New features include

Echo | Livescribe

The Echo, now with more memory, is an amazing note-taking aid. List: \$170 (4GB) or \$200 (8GB) find.pcworld.com/70895

wondershare



LIVESCRIBE'S ECHO SMARTPEN ties its audio recordings (of lectures, say) to your handwritten notes.

password protection, the ability to function as a USBconnected input device, and an associated app store.

The Echo can record and play back audio—but instead of requiring you to cycle through your recordings to find a clip, it ties audio to your written notes. By tapping a Record button on a printed page, you start recording as you write. As you scribble notes, the pen records spoken words linked to what you're writing.

Later, you can tap your written words with the pen to hear the audio recorded at the moment you wrote them. Livescribe includes a standard headphone jack on the Echo (and an embedded speaker) for listening.

The Echo works only on specially designed dot paper. A high-speed infrared camera at the tip of the pen captures your movements on the paper, which is also the secret for connecting captured audio to written text.

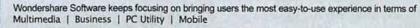
The pen comes packaged with a 50-sheet starter notebook containing perforated, lined dot-paper with various controls printed at the bottom of each sheet. Tapping these controls activates various functions. It makes sense when you actually use it.

-Sarah Jacobsson Purewal

The Easiest Way to Enjoy Movie Anytime&Anywhere

- Convert video/audio to any media format
- Rip DVD to video/audio format
- Burn any video to DVD or ISO
- Download online streaming video
- Transfer video /audio to portable device





Copyright @ 2010 Wondershare Software Co., Ltd. All rights reserved.

Apple's Fourth-Generation iPod Touch

FOR MANY PEOPLE, the iPod Touch is the iPhone without the phone and GPS features. The 4G (fourthgeneration) iPod Touch comes in 8GB (\$229), 32GB (\$299), and 64GB (\$399) capacities—and it's more like the iPhone than ever.

This iPod Touch carries a built-in omnidirectional microphone and a high-def rear-facing camera (as well as

*** * * * 5 SUPERIOR iPod Touch | Apple** Compelling, extremely versatile device is *almost* an iPhone. List: \$229 (8GB) to \$399 (64GB) find.pcworld.com/70900 a standard-definition frontfacing camera). The microphone gives you some handsfree control of the Touch. Press and hold down the *Home* button until the Voice Control screen appears, and then you can tell the iPod whatever you want it to play.

Its combination of microphone and speaker makes this iPod Touch a better device for Skype/VoIP calls. Though the mic is on the back, it's sensitive enough to pick up your voice, and the speaker is sufficiently audible to permit conversation. Inside, the 4G iPod Touch has Apple's A4 processor the same kind of chip found in the iPhone 4 and the iPad. I compared the performance of a new 32GB iPod Touch with that of a 32GB thirdgeneration iPod and noticed very little difference.

With the cameras comes the FaceTime video-calling feature, and it works much as it does on the iPhone 4, but you don't need a phone number to place or receive a video call, only an e-mail address.

The iPod Touch is wildly popular for good reason. It's extremely versatile—a media player; pocket gaming machine; productivity tool; Internet communication device; and in this update,



THE NEW IPOD Touch comes with more versatility than ever.

pocket camcorder, still camera, handheld recorder, and FaceTime video phone. —*Christopher Breen*



Visit www.inkgard.com/pc1 for details or call 858-217-3130

*i*Prolog

Top 10 Ultraportable Laptops

Our new number-one ultraportable offers both the least weight and the most power.



MODEL		Rating	Performance	Features and specifications			
	Toshiba Portege R700-S1330 S1599 NEW find.pcworld.com/70871	*****	WorldBench & score: 128 WorldBench & rating: Superior Overall design: Superior Tested battery life: 5:58	2.67GHz Intel Core i7 620M 13.3-inch widescreen 3.0 pounds 128GB solid-state drive			
-	 Toshiba delivers a great, lightweight i 	machine that offers su	iperb performance and has only a few	annoying Itaws.			
2	Alienware M11x (second revision) \$1299 NEW find.pcworld.com/70872		WorldBench & score: 91 WorldBench & rating: Very Good Overall design: Superior Tested battery life: 4:56	• 1.2GHz Intel Core i7 640UM • 11.6-inch widescreen • 4.6 pounds • 500GB hard drive			
	 A boost to the internal hardware give 	s the second revision o	of the M11x substantially stronger per	formance, but battery life takes a hi			
3	HP EliteBook 2740p S1699 NEW find.pcworld.com/70873 > This model's convertible tablet touch	VERY GOOD	WorldBench & score: 104 WorldBench & rating: Very Good Overall design: Superior Tested battery life: 3:29	• 2.53GHz Intel Core i5 540M • 12.1-inch widescreen • 3.9 pounds • 250GB hard drive pointing battery life and display color			
	-		WorldBench 6 score: 102	• 2.13GHz Intel Core i7-640LM			
4	HP EliteBook 2540p \$1629 find.pcworld.com/70281	VERY GOOD	WorldBench & score: 102 WorldBench & rating: Very Good Overall design: Very Good Tested battery life: 5:34	12.1-inch widescreen 4.0 pounds 250GB hard drive			
	Small enough to travel anywhere, the EliteBook 2540p breezes through business tasks; just don't try to do 3D gaming.						
5	Lenovo ThinkPad Edge \$799 find.pcworld.com/69438 • The ThinkPad Edge refreshes Lenovo	VERY GOOD	WorldBench & score: 65 WorldBench & rating: Good Overall design: Very Good Tested battery life: 8:30 roving the look and feel while still let	• 1.3GHz Intel Core 2 Duo SU7300 • 13.3-inch widescreen • 3.9 pounds • 320GB hard drive			
-							
6	MSI X420 S799 NEW find.pcworld.com/70875	VERY GOOD	WorldBench 6 score: 68 WorldBench 6 rating: Good Overall design: Very Good Tested battery life: 6:21	1.3GHz Intel Core 2 Duo SU7300 14.0-inch widescreen 4.5 pounds 500GB hard drive			
	The MSI X420 packs a lot into a pretty	package. Although it	's not quite a gaming notebook, it deli	vers some great high-def video.			
7	Lenovo IdeaPad U150 \$749 find.pcworld.com/69829	VERY GOOD	WorldBench 6 score: 66 WorldBench 6 rating: Good Overall design: Good Tested battery life: 6:20	 1.3GHz Intel Core 2 Duo SU7300 11.6-inch widescreen 3.2 pounds 3200B hard drive 			
	The IdeaPad U150 is a very nice-looking	ng machine that finish	ed at the dead center in its category (on our performance benchmarks.			
8	Acer Ferrari One (FO200-1799) S599 NEW find.pcworld.com/69439	VERY GOOD	WorldBench & score: 51 WorldBench & rating: Fair Overall design: Very Good Tested battery life: 4:52	 1.2GHz AMD Athlon 64 X2 11.8-inch widescreen 3.2 pounds 250GB solid-state drive 			
- Nor	 Excellent design and features competition 	nsate for lackluster pe	erformance in a cool little laptop tha	t's just a bit bigger than a netbook.			
9	Acer TimelineX 1830T-3721 \$700 NEW find.pcworld.com/70405	**** GOOD	WorldBench & score: 76 WorldBench & rating: Good Overall design: Very Good Tested battery life: 6:30	1.2GHz Intel Core I5 430UM 11.8-inch widescreen 3.0 pounds 500GB hard drive			
	 This TimelineX is an affordable ultrage 	portable that's long on	workaday performance but iffy on in	put ergonomics.			
10	Toshiba Satellite T235-S1345 S600 NEW find.pcworld.com/70876	**** GOOD	WorldBench 6 score: 66 WorldBench 6 rating: Good Overall design: Very Good Tested battery life: 5:17	 1.5GHz AMD Turion II K625 13.3-inch widescreen 3.8 pounds 320GB hard drive 			
	The Satellite T235-S1345 is a good no			a second s			

MORE ONLINE Visit find, poworld.com/69510 to see in-depth reviews, full test results, and detailed specs for each laptop on this chart.

World's First 450Mbps Router!



450Mbps Wireless N Gigabit Router TEW-691GR **Extreme Speed** Experience unmatched wireless performance with 450Mbps wireless n

Going the Distance

A record 9 radio spatial streams produce a 200% increase in wireless coverage as compared to 300Mbps routers

One Touch Networking

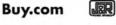
Wi-Fi Protected Setup (WPS) integrates other WPS supported wireless adapters at the touch of a button

TRENDNET

Win a Wireless N Gaming Adapter at www.trendnet.com/giveaway Enter Code <u>PC World</u> to Double Your Prizes

©2010 TRENDnet All rights reserved

amazon.com





NC K.com

PROVANTAGE





Cyberlink Power2Go 7: Bargain Disc-Burning

CYBERLINK POWER2GO 7 Deluxe is an evolutionary iteration of this entry-level, reasonably priced (\$50) discburning suite. It works well enough at its tasks, but I did find one notable bug (involving audio importing) and found the embedded marketing ploys annoying.

Power2Go packs the abili-

★★★★★ 600D Power2Go 7 | CyberLink Entry-level disc-burning suite is nicely priced and does the job. List: \$50 find.pcworld.com/70898 ty to write virtually any type of job (data, video, music) to any kind of disc, including high-capacity Blu-ray Discs, and it can rip and transcode audio. This version adds new features such as the ability to create high-def photo gallery (slideshow) discs, and a stand-alone audio editor.

Also new are the ability to view and even extract files from an ISO disc image; a capability to create 128-bit or 256-bit encrypted discs; and a handy desktop widget for easy access to the suite. DVD authoring has been

improved to the point where



POWER2GO ISN'T THE most powerful disc-burning suite and has its annoyances, but it's reasonably priced and handles many formats.

most users won't need to get a more expensive option.

Though all of Power2Go's older features are mature and well-rounded, I was disappointed in the new photo gallery app. It provides just one menu style, only one slide transition, and no templates. Worse, CyberLink watermarks every slideshow with its logo (a forthcoming update may change this).

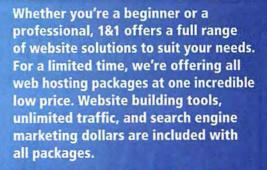
Power2Go 7 works well and is much cheaper than the similar Roxio or Nero suites, albeit less powerful, too, and with fewer options. But it may suit your needs just fine. —Jon L. Jacobi



WEBSITE PLANS

ALL WEB HOSTING PACKAGES JUST:

per month* For the first 3 months!



Go to www.landl.com to choose your package!

DOMAIN OFFERS: .info only \$0.99 first year .com only \$7.99 first year

as a web Monting : 191 7

0 33000

QUALITY WEB HOSTING

hatp i//www.lwdt.com

181 Web Husting

Himan

ting

> Service & Supp

> First Website

d) ani?

> 90-Day Guara

Ch.







\$2.99

6AQ CA

· FAITHFURNE AV

E-Mail Acco

IMAP & POP3 Supp

90-Day Money **Back Guarantee**







Call 1-877-GO-1AND1 or visit us now

www.1and1.com

*Offers begin November 1, 2010. 12 month minimum contract term applies for web hosting offers. Setup fee and other terms and conditions may apply. Domain offers valid first year only. After first year, standard pricing applies. Visit www.land1.com for full promotional offer details. Program and pricing specifications and availability subject to change without notice. 1&1 and the 1&1 logo are trademarks of 1&1 Internet AG, all other trademarks are the property of their respective owners. © 2010 181 Internet, Inc. All rights reserved.

Ceton InfiniTV 4 Makes Your PC a Media-Center DVR

THE \$399 INFINITV 4 is a PCI card that accommodates a single CableCard from your cable-TV provider. Once installed, it bestows four digital tuners that can show or record high-definition and

> THE INFINITV 4 can record four high-def channels at once.

premium channels. The card works—and it is awesome.

For testing, I popped an InfiniTV 4 into an HP Pavilion Slimline s5360f desktop. The card requires Windows 7 (any version but Basic), an open PCIe expansion slot, and a video card with an HDMI-out port, as well as a multistream CableCard. Some cable companies may insist on sending an installer to help with setup.

The only tricky part of the setup—most of which happens inside WMC (Windows Media Center)—is "pairing" the CableCard with your cable account. That means getting on the phone with customer service and reading a bunch of numbers from a WMC setup page.

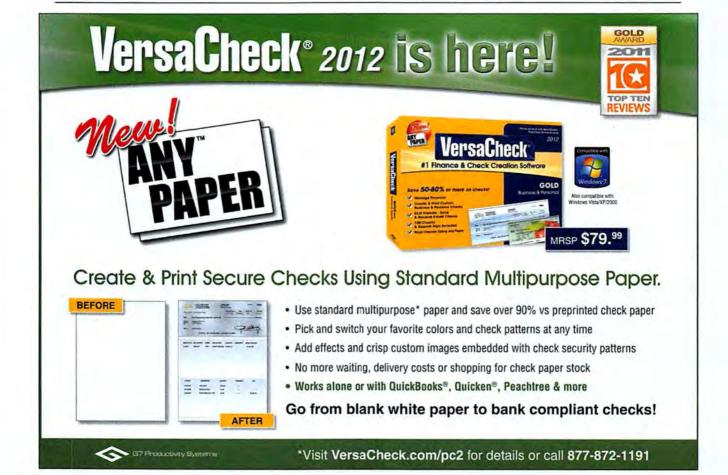
Once that was done, my PC was, in a matter of minutes, pulling down HBO, The Discovery Channel, Comedy Central, and other digital HD channels.

But could it really record four shows at once while letting me watch a fifth, prerecorded show? On my Pavilion, a reasonably powerful quad-core system, yes. I noticed no hiccups.

Because of the one-way nature of current Cable-Cards, the InfiniTV 4 can't access pay-per-view or ondemand programming.

The InfiniTV 4 isn't cheap, but it turns nearly any PC into the ultimate DVR. —*Rick Broida*

*** * * *** SUPERIOR InfiniTV 4 | Ceton Though pricey, this four-tuner HD recording card earns its keep. List: \$399 find.pcworld.com/70897





Unmask Your Child's Online Identity

See Everything They Do Online



It's easy... Just press PLAY to watch a digital surveillance tape of all PC and Internet activity.





Does Your Child Have a Secret Online Life?

The typical teenager has more than 100 chat buddles and 'friends' on MySpace and Facebook. Do you know who your children talk to online? What pictures they post and view? Are they pretending to be someone they're not?

Trust, Monitor, Protect, and Educate with Spector Pro

With Spector Pro, you'll rest easy knowing that your child is protected online with the world's most trusted monitoring software. It records everything on their computer, laptop, netbook or Mac – including chats, instant messages, emails, websites they visit, all activity on Facebook and MySpace, and much more. You can block unwanted chats and activity, and even "rewind and play" screen snapshots of everything they said and viewed on friends' profile pages – giving you total visibility into their online identity and choices they're making.

Recently awarded the 2010 Mom's Choice Award, Spector Pro gives you everything you need to ensure their safety, while helping them make smarter, safer decisions online.

View an online demo today www.SafeWithSpectorPro.com Call us anytime 1.877.344.1491

Corporant 1946 2010 Spectorsoft Componential All rights inversed. PC Magazine Editors' Choice Logo is a trademark of Ziff Davis Publishing Holdings (nr. Vied under licensic. All other trademarks are property of their respective owners

A competency-based education means more bandwidth for life.



WGU's competency-based education lets you progress through your online program as you prove your knowledge of it. You have the flexibility to keep living your life, while staying on target to meet your career goals. It's no wonder 94 percent of our graduates would recommend us.



WESTERN Governors University

ONLINE ACCELERATED. AFFORDABLE, ACCREDITED.

www.wgu.edu/PC 1.888.455.6007

Reviews

The Rover Puck: A 4G Hotspot, Sans Contract

CLEARWIRE IS OFFERING a \$150 pay-as-you-go mobile hotspot called the Rover Puck as an alternative route to its 4G service. Aimed at consumers who don't want a service contract, it lets you become a walking hotspot, sharing 4G Internet access with up to seven friends.

The catch is that you can use it only in Clearwire's WiMax service areas. Also, the Puck doesn't support 3G—and though Clear is ambitiously expanding its WiMax service, that service still doesn't reach some places. But as long as you stick to WiMax turf, the Puck is a good and economical option.

The pay-per-use option for the Puck costs \$5 for a day, \$20 for a week, or \$50 for a month of 4G service.

The Puck seems sturdy—I dropped it (accidentally) a couple times, and it didn't even scuff; plus, it fits easily into a backpack or purse.

The device measures 4.25 inches in diameter and is about 0.75 inch high (with "feet" to permit a little air flow under the disk). The two buttons at 10 o'clock and 2 o'clock are small but serviceable. One button

A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A

powers on the device; the other displays the bars of connectivity (up to four).

In my tests, the Puck provided nonstop access for about 4 hours on its battery for two users who were doing ordinary Internet connectivity tasks; you can plug it in if an AC outlet is handy.

The Puck's connectivity and throughput are as good as the 4G signal strength in your location. In one Clear-



THE ROVER PUCK lets you share 4G Internet access.

wire service area, I found download speed to be about 5.6 megabits per second.

My main complaint about the Puck is that it works only with WiMax; enabling the device to connect to 3G service when 4G isn't available would have been welcome, but, unfortunately, devices that support both types of service typically cost more.

The bottom line is that the Puck's technology works as long as your 4G does.

-Peggy Watt

PHIATON THE ULTIMATE LISTENING EXPERIENCE MS 400

MS 600 Music Dock

AVAILABLE AT:

PS 300 NC

Noise Canceling

Headphone

buy.com

PS 210

Half In-Ear

Earphone



PS 20 NC

Noise Canceling

Earphone

amazon.com

CLICK PHIATON.COM

Carbon graphite fiber enclosure for high quality audio Optimized airflow delivers

concert hall sound quality

greater noise reduction

Closed-ear design promotes

A Gift for Travelers: Novatel/Virgin Mobile's MiFi 2200

FOR TRAVELERS who juggle several connected devices while on the road, Novatel's MiFi 2200 mobile hotspot may be just the ticket. The MiFi connects to Sprint's 3G EvDO network and then creates a mobile bubble of Wi-Fi that can connect up to five devices at once. Best of all, you can obtain the unit with a prepaid, no-contract data plan from Virgin Mobile.

**** SUPERIOR

MiFi 2200 Novatel

Easy-to-use mobile hotspot comes with reasonable prepaid data plans. List: \$150

find.pcworld.com/70905

Most hotel and airport connections for Wi-Fi are extremely overpriced, highly undependable, or both. The MiFi 2200 offers a reliable alternative. Virgin Mobile

provides two

Broadband2Go prepaid data plans. You can pay \$40 per month for unlimited data, or \$10 for ten days of data service capped at 100MB. The price of the MiFi 2200 itself is \$150 from Virgin Mobile. Setting up the MiFi took about 5 minutes. A "quick start" guide is the only user



THE MIFI 2200 can connect five devices on Sprint's 3G service.

manual you'll find in the box, but that's all you need.

In San Francisco, I repeatedly saw download speeds of more than 1 mbps when connecting with my laptop. Smaller devices (with lower processor speeds and different radios) had slower download rates.

The MiFi is half the size and weight of an iPhone. Its battery lasts about 4 hours without a charge (less with more devices con-

nected). You can recharge the battery via microUSB cable from either a laptop or an iPad or iPhone charger.

A MiFi may cost less than a mobile hotspot plan from a wireless carrier—with no hotel Internet charges. And that's a deal hard to resist. —Ken Biba

NEW VERSION. MORE IMMERSION.

The G	ift That	Speaks Volumes.

ATTO ALOU
-\$579- \$479
\$740 \$599

Buy Rosetta Stone today: (866) 212-3204 RosettaStone.com/pws120

Use promo code pws120 when ordering,

+Special Promotional Offer available from Nov. 23, 2010 to Jan. 04, 2011.



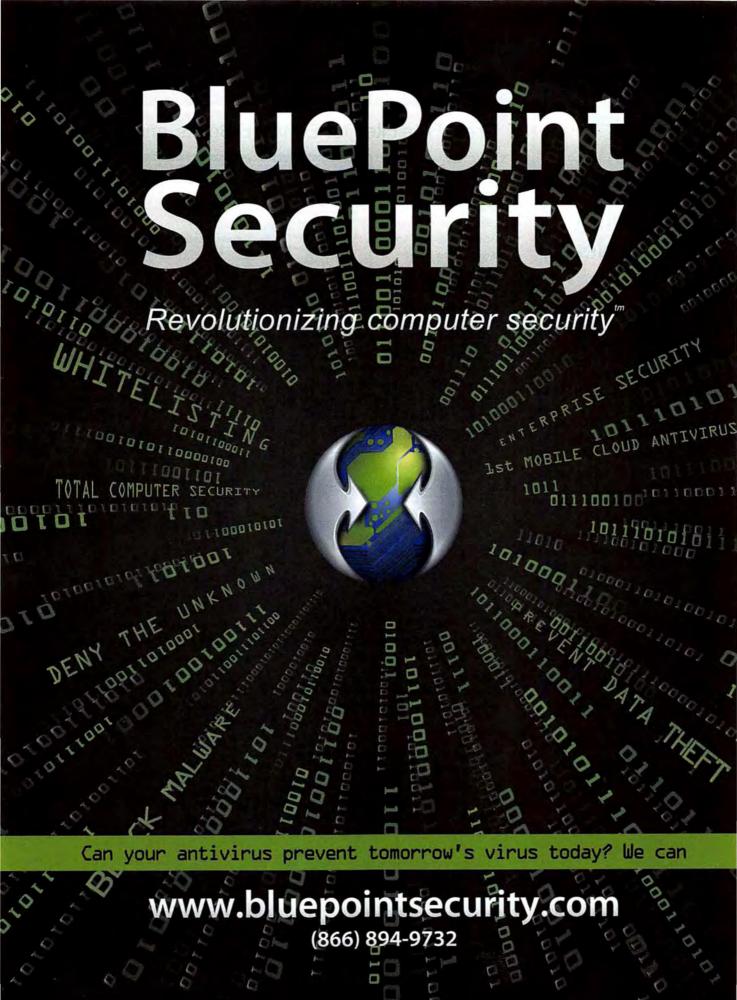
Our Proven Solution. Enriched.

Discover Rosetta Stone's award-winning solution, now with an entirely new online experience that fully immerses you in language as never before.

- Learn naturally using our unique software, complete with proprietary speech-recognition technology.
- Converse confidently through live practice sessions tutored by native speakers.
- Communicate and connect with others as you play games in our exclusive online community.



C2010 Rosetta Stone Ltd. All rights reserved. Offer applies to Rosetta Stone Version 4 TOTALeTM CD-ROM products purchased directly from Rosetta Stone, offer does not apply to any additional subscriptions resubscriptions resubscriptions or subscriptions results. Control results and cannot be combined with any other offer. Prices subject to change without notice. Certain product components require online access and are offered on a subscription basis for a specified term. TSpocial Promotional Offer period runs from November 23, 2010 to January 04, 2011; at other times, purchasers receive a 10% discount off the purchase price through March 11, 2011 willine quantities isst. "So-Month No-Risk Money Back Guarantee is limited to product purchases made directly from Rosetta Stone and does not include return shipping. Guarantee does not apply to any online subscriptions purchases should be canted by the mite CD-ROM product subscription renewals and cannot be canted to any online subscriptions purchases of the purchase should return shipping. Guarantee does not apply to any online subscriptions purchases of the purchase should be apply to any online subscriptions purchases of the purchase should return shipping. Guarantee does not apply to any online subscriptions purchases of the purchase should be apply to any online subscriptions purchases of the purchase should be apply to any online subscriptions purchases of the purchase should be apply to any online subscriptions purchases of the purchase should be apply to any online subscriptions purchases of the purchases of the purchase should be apply to any online should be apply to any online subscriptions purchases of the purchases of t



Reviews&Rankings

its the year frank	a for shinter the	Assessment and a straight one
H D & P	- 8 B	GRADE
Downloads ()	Company Organ	nization Chart
4ama *	- al Faltar	
Barantia ()		
Conta II		
Proposal more	_tegrtergr	
Re-org meeting		P- [-W-]
Cangte Vine	Farmer To	
1	·	·

A Tool to View Nearly Any File

QUICK VIEW PLUS 11 Standard is a great file-viewing utility for business users. It provides easy viewing without your having to open the originating program—of hundreds of file types, from word processing documents, databases, and spreadsheets to compressed file archives produced by myriad applications, new and old.

Quick View Plus integrates handily into the Vista and Windows 7 operating environments, so you can use its file-viewing abilities within Explorer windows. It also integrates with Outlook to render attached files in that program's preview pane. And you can copy information from the documents it allows you to view for pasting into other documents.

One limitation remains: Quick View still doesn't handle multimedia files.

But this is otherwise an exceedingly useful tool. —Jon L. Jacobi

*** * * very good Quick View Plus 11 Standard Avantstar

This is one of the handiest fileviewing utilities around. List: \$46 find.pcworld.com/70904

DOWNLOAD THIS

Great Free Files for E-Mail, E-Books, and E-Fonts

WE LOVE READING anything except spam. Luckily, we've found an e-mail plug-in that can shield you from unwanted messages. And if you have an e-book reader, a library manager can help you organize your virtual books and periodicals. Finally, you have no doubt noticed when working on a doc-



CALIBRE HELPS YOU to organize and annotate your e-book library so that you can always have your desired reading at your fingertips.

ument that the right font makes reading more enjoyable; a nifty font manager compares fonts side-by-side so you can find the one that best suits your own words. We'd call these files "bestsellers," but we can't: They're all free.

E Cullook	(Default) west Archive	ł
and Research 1 1 1	sonal Folders	I
	Conversation Action	Settings
-	Evan Hacks	1
have a	Hingenburg keep	
Rudord .	Inbax	
	Journal	
letection Action	ns for "Outlook"	
OLOGRAPHIC SOLIDI	(H	er in each account
all	Move to Spam fold	

YOU MAY FIND Cloudmark's DesktopOne to be better than any spam filter you have now.

Cloudmark DesktopOne

Tired of getting e-mail from Nigerian strangers offering to help you claim several million dollars? Try Cloudmark's DesktopOne, which does an excellent job of killing spam before you ever read it. Even if you have a spam filter on your e-mail software, you'll find it useful. It checks incoming e-mail, determines whether it's spam, and automatically routes suspect messages to a spam folder. I found that DesktopOne did a better job of handling spam than did Outlook's own spam filter. find.pcworld.com/70901

-Preston Gralla

Calibre

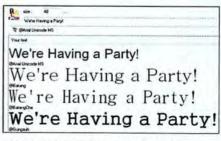
Calibre helps catalog your e-book collection. First, it surveys the e-books and other relevant files residing on either your hard drive or your e-reader, and then it inserts them into Calibre's main directory. Once that information is in the directory, you can use the app to organize, categorize, and save to disk. You can customize or delete any of the data fields Calibre fills in, and you can add your own. find.pcworld.com/70902

-Sally Wiener Grotta and Daniel Grotta

FontViewOK

Choosing a font can be more time-consuming than necessary, since most apps don't let you view fonts side-by-side. To compare your options, you must manually make the change and then remember what your previous options looked like, and what those fonts were called. A font manager such as FontViewOK can make this process a whole lot simpler. This free app lets you view and compare your text in various fonts, side-by-side, so you can see which one best fits your needs. find.pcworld.com/70903

-Liane Cassavoy •



FOR BETTER, FASTER font selection, compare text in several fonts at once with FontViewOK.



Supports an incredible variety of media formats

PBC

Full 1080p high-definition video via included HDMI cable

FF

SH

Internal 2.5" SATA HDD/SSD bay to store media in PBO Core

USB 2.0 and 10/100 Network ports to access media through external storage devices (USB Flash Drive, USB HDD, NAS)



The Box Office delivers an all-in-one media solution allowing you to enjoy your digital media in the comfort of your living room through your entertainment system.

CCC SCONSTANS & C

CORE

newegg Buy.com NCKam LL. xprei FU COMPUSA.com RICTO GENEET TigerDirect.com amazon.com (Care

m mory.

1

WWW.PATRIOTMEMORY.COM

Copyright @ 1985 - 2010, Patriot Memory, Patriot Memory is a trademark of PDP Systems, Inc. All Rights Reserved.

Plus: Real-world

Nice from advice from efficiency experts.

Do everything faster with these 55 indispensable productivity tricks. »

ILLUSTRATION BY ANDREW DEGRAFF



With an ever-growing

number of distractions that are fighting for your attention throughout the day, it's more important than ever to be as productive as possible when you're actually on the job. With that in mind, we've dug up the best Windows tricks in our arsenal and talked to some of the best minds in productivity to find 55 tips sure to help you get more work done with your PC in less time. (*Please note:* These tips apply primarily to Windows 7.) Let's get down to it.

Minimize all windows (except the one that you're working on). When your desktop becomes so cluttered that you can't find anything, this step is a good way to regain focus. Grab the title bar of the window you want, and shake your mouse a little. All other windows will vanish into the taskbar. Repeat to undo and restore all of your hidden windows.

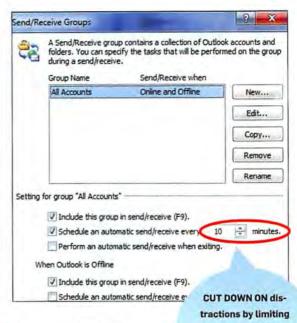
Use folders in your e-mail client. Letting your e-mail accumulate in a monolithic inbox makes it nearly impossible for you to find important messages without a laborious hunt, as well as greatly increasing the odds that you'll forget or simply overlook e-mail that requires urgent attention. Delete the junk, and file nonactionable e-mail messages into clearly defined folders. Getting into the habit of sorting incoming mail in this way is critical for most users looking to enhance their productivity.

Be judicious with e-mail folders. An

e-mail folder should not be so narrow of purpose that it's never used, but neither should it be so broad that it becomes overstuffed with messages, unless you use that folder strictly for archiving and don't need to refer to its contents regularly. Use a descriptive name for each folder and keep it short enough that it doesn't require scrolling within the Mail Folders pane. Remember that folders can usually be nested, too.

Use rules to route messages automatically. When your personal involvement isn't

tep 1: 5	m a template or from a blank rule Select a template	
Stay	Drganized	
1	Move messages from someone to a folder	
Na× ► Na	Move messages with specific words in the subject to a Move messages sent to a distribution list to a folder Delete a conversation Flag messages from someone for follow-up Move RSS items from a specific RSS Feed to a folder	USE E-MAIL RULES t
Start	Up to Date Display mail from someone in the New Item Alert V Play a sound when I get messages from someone Send an alert to my mobile device when I get mes from a blank rule Check messages when they arrive	automatically route incoming messages i specific folders, so yo can work through you e-mail inbox in a mor



necessary, the frequency with e-mail rules can which your e-mail save lots of client checks for time. For examnew messages. ple, do corporate newsletters from the same address arrive ten times a day? Stuff them into a folder for "later review." In Outlook, look for a simple rules wizard that walks you through creating your rules; to find it, select Tools . Rules and Alerts. Most other e-mail clients have a similar option for establishing automated rules.

Remap the Windows key. Don't ever use the Windows key? Or dislike where it's located and want to swap it with <Alt> or <Ctrl>? Download a keyboard remapper. Many cheap or free apps for this purpose are readily available, but Keyboard Remapper (find.pcworld.com/70883; \$10) works well. Remap to your heart's content, but keep in mind that there's no way to change or disable a laptop's <Fn> key, since it bypasses Windows. (You can also check your computer's BIOS for any potential tweakability.)

Customize your browser's default search engine. Your PC builder has likely preset Internet Explorer's default search engine to the one that's paying it the most. Otherwise, it'll be set to Microsoft's liking: Bing. Change this setting by clicking the drop-down arrow in the top right corner of the IE window (within the search box), and click Find More Providers. You won't find Google without a hunt, so type Google into the 'Find addons...' search box, and select the first result, Google Search Suggestions. Click Add to Internet Explorer, and at the pop-up, click Make this my default search provider.

Improve Windows Search. If Windows Search isn't finding everything that you know you've saved, check the Windows Indexing Options (type indexing options into the Windows 7 Start Menu search bar), and then check the locations that are included in the search index. Click Modify, and navigate through the C: drive to add more locations to index.

Rename files fast. Renaming lots of files in Windows Explorer? Select the first file in your list, press <F2>, and type the new name. When finished, press <Tab> instead of <Enter>. Explorer will jump you to the next file in the list and automatically select the entire file name so you can rename it without having to press the «Backspace» key. Continue pressing <Tab>, and you'll zip through the list one file at a time.

Drag in Outlook. In Outlook, you can drag any item to any other area of the program, and it will create a new item there, with the dragged information as part of the new item or event. Drag an e-mail to the Contacts button, and it will create a new contact for the sender, automatically populating the Name and E-mail fields, and putting the body of the message in the Notes field. Drag a contact to the Calendar, and you'll create a Meeting Invitation ready to be sent to that person, and so on.

Pro **DAVID ALLEN**

Tips from productivity expert David Allen, author of Making It All Work, now in paperback. **Find more advice at** www.davidco.com.

Making II All Work



Allen is a Lotus Notes enthusiast, through

and through, but he enhances the spartan Notes interface with the eProductivity addon, which adds next-generation features to the software. One of these features, for example, enables the user to drag an e-mail message to a "call" button in order to place an immediate phone call to the person who sent the message. eproductivity.com

Allen syncs his Notes database with his BlackBerry, which he considers the best 0 handheld for agenda mavens.

0 Though Notes is a great application for day-to-day activities, Allen uses Mindjet's MindManager to keep tabs on long-term projects and brainstorming notes. He refers to it as "kind of a weekly review of what's going on... the big things coming toward me that I need to keep at top of mind." mindjet.com

Keyboard shortcuts are critical for helping a busy person get through a queue of tasks quickly. Allen employs ActiveWords to create simple macros, to open frequently used documents, and even to insert the current date on command into any document or application. activewords.com

The professional and business versions of Pamela for Skype-a call management tool-make it easy to record VoIP phone calls of any length. pamela.biz/en

Don't constantly check your e-mail. Frequent checking breaks your concentration and interrupts what you're doing, wasting time as you return your focus to the task at hand. Reduce how often your e-mail client checks for new messages to something less distracting: Every 10 or 15 minutes should give you time enough to focus without keeping people waiting overly long for a response. In Outlook, click <Ctrl>-<Alt>-S and tweak the digits for 'Schedule an automatic send/receive every ___ minutes'.

Make important e-mail more findable.

Just change the subject lines. Few things are more annoying than receiving an important e-mail message that carries a clueless subject like "hey" (or worse, an empty subject line). A more meaningful subject line improves your search index and makes your e-mail thread more valuable in general. In Outlook, open the message (this tactic doesn't work with just a preview), select the subject line, and type over it with the more-useful text you want. >>

Select multiple files

easily. Using the «Ctrl» or «Shift» keys to select multiple files in Windows Explorer can be difficult and an invitation to commit errors. If. however, you frequently need to open or manipulate multiple files at once, turn on Windows' check-box system-it lets you select files more easily. In Windows Explorer, you can find this setting under Organize • Folder and search options . View. Scroll down and select Use check boxes to select items; then click OK.

Use Outlook's categorization system.

Outlook lets you color-code messages, task-list items, calendar entries, and even contacts into as many as six categories. Figure out a system and stick to it: red for business, for example, and blue for personal items. Or color-code items by level of urgency: green for "must do today," blue for "to do this week," and yellow for "to do this month."

Power up the 'Send To' feature. When right-clicking a file in Windows Explorer, hold down **<Shift>** before you click, and then select the *Send To* command. Windows will reveal a whole host of additional options, such as one to move the file to an often-used folder.

Use Outlook's Search Folders. Though it has somewhat less utility now that PC indexing and document search are commonplace, the Search Folders feature in Outlook still has a function. Essentially, these folders store copies of messages on the basis of predefined rules that you set—such as messages that have a keyword in the subject line or that are sent to or from a certain contact—and the folders update themselves as new messages arrive. If you need to constantly refer to a topic or to a particular person's messages (such as those from your boss or a key client),

Pro TIM FERRISS

Tips from Tim Ferriss, author of The 4-Hour Workweek. Go to www. fourhourworkweek. com/blog for his blog. The 4-Hour Workweek

TIPS

In Ferriss's words, "Self-discipline is overrated. Technology tools will help you focus and be productive where you yourself fail." Still, Ferriss is a "tool minimalist" who uses only a few applications every day to manage his workload, primarily focusing on e-mail and social media.

2 Ferriss says the trick with e-mail is to have data about who's messaging you so you don't waste time researching them to figure out if they're worth responding to. So Ferriss uses Rapportive, a Firefox plug-in that replaces the ads in Gmail with detailed, Web-sourced information about the sender of each message in your inbox. "I get a 15 to 20 percent time savings from this one plug-in alone," he says. rapportive.com

3 To force himself to focus on the tasks at hand, Ferriss uses RescueTime, a Webbased tool that lets the user shut off access to certain Websites—Facebook and Twitter, for example—after a set amount of use. "It's easier to use tools like this than to rely on discipline," he explains. rescuetime.com

4 Ferriss has gone virtually paperless through the use of Evernote, a free downloadable app that lets him clip to the cloud Web pages, photos, business cards, and even printed matter, which he scans into the system with a portable scanner that he takes with him just about everywhere. Evernote has enabled Ferriss to remove 90 percent of the paper in his house, he says, and since it's searchable, he no longer has to rely on folders and data management. evernote.com

5 Ferriss's one piece of advice for improving self-discipline: Spend the first two hours of every workday working on outstanding projects, *before* you check your e-mail.

but organizing them individually into folders doesn't work for you, Search Folders can be a great time-saver. You can set one up under *New-Search Folder*.

Alter Windows Explorer's 'Favorites'.

Drag folders to the top left of the screen from within Explorer and then organize them however you like. Right-click and select *Remove* to get rid of anything you don't want. (For more on folders in Explorer, see find.pcworld.com/70931.) Install a good spam filter. If your e-mail client doesn't already have one, you can find many spam filters in PCWorld.com's Downloads library (find.pcworld.com/70884).

Use the Windows 7 Calculator. You don't need to hunt for a special Website or a pocket gadget to do complicated math. The Calculator utility in Windows 7 is far more powerful than it appears at first glance. Click the *View* button to pull up Scientific, Programmer, and

X

Get your computer back if it's STOLEN!

Track your computer if stolen
Download and delete files from your computer
Take snapshots of the thief if your computer has a built-in camera
Record everything that the thief types using the key logger tool
Shut down your computer every time it is turned on
Send messages directly to your computer screen

www.LocatePC.net



COM.



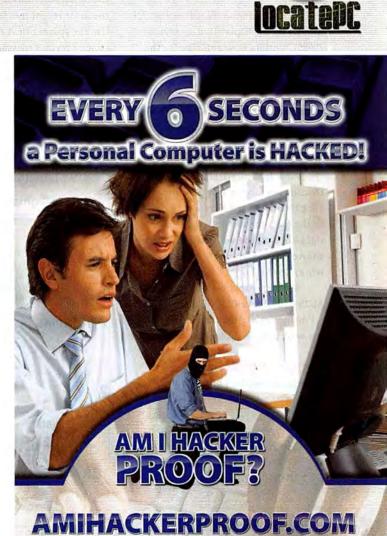
- >> Installing Spyware
- Cracking Wireless Networks
- Hacking into a Computer
- Hacking Web Servers
- Tapping VOIP Telephones
- Password Cracking
- Hacking Voicemail
- Cell Phone Spyware
- SQL Injection





- >> Resetting Windows Passwords
- Social Engineering
- >> Denial of Service
- How to Make Money as a Certified Ethical Hacker and Much More!

WWW.HOWTOBECOMETHEWORLDSNO1HACKER.COM



Statistics calculators as well as a date calculator, a unit converter, and even a mortgage calculator. Useful, *non*?

Ratchet down User Account Control's intru-

siveness. This is an Records instant way to save each step time. In the 'User lem as Accounts and Family Safety' control panel, first click User Accounts, followed by Change User Account Control settings. If you're paranoid (and a power user), you can probably safely turn UAC down either to Never notify me, or to the option that's one notch above that, Notify me only when programs try to make changes to my computer (do not dim my desktop).

Turn your iPad into a second monitor. All it takes is Air Display (find.pcworld.com/ 70885), a utility now available for the PC. It's \$10 from the iTunes Store.

Default to the Documents Library. In

Windows 7, when you launch Windows Explorer, the view automatically defaults to the Libraries Folder, which for many users is not very useful. Busy types will typically drill straight to the Documents Library from there. Save a click by instructing Explorer to default to the Documents Library. To do this, right-click on the Windows Explorer shortcut (the taskbar shortcut won't work). In the Target field, type or paste:

%windir%\explorer.exe ::[450D8FBA-AD25-11D0-98A8-0800361B1103]

Finally, replace the icon in the taskbar with your tweaked shortcut.

Liberally use Windows 7's Jump Lists.

You can access the Jump Lists by rightclicking on any icon in the taskbar. You'll find recently used documents, along with certain app-specific functions (such as setting your IM client to 'Away'). One little time-saver: You can pin a Web URL to your browser's Jump



SHORTEN YOUR TECH support calls by using Windows' Problem Steps Recorder to capture each step of a PC problem as it happens. List by dragging that URL to the browser icon in the taskbar (do this by clicking on the mini icon in the URL bar).

Use Outlook 2010's Con-

versations view. This view can

make your inbox much more manageable by compressing related messages into groups and showing only the most recent message in the thread—similar to the way that Gmail works. To give this view a try, click the *Arrange By* tab in the message list pane and then select *Conversation*. Outlook will display only the most recent message in a thread. Use the spinner next to each headline to see previous messages in the thread.

Use Outlook's Clean Up button. Is your inbox still out of control? In Outlook



2010, click the *Clean Up* button (it's in the ribbon), and Outlook will sweep the inbox's redundant messages into the trash for you with a single click.

Use Windows' Problem Steps Recorder.

Tech support calls are a pain. If you're having computer problems, don't get stuck on an endless phone call trying to explain the difficulty. Run Windows' Problem Steps Recorder to save a stepby-step history of what you're doing so you can share it with a friend or tech support pro. Type PSR in the Start menu search box to find and run the recorder. Then go through the steps that lead to your problem; PSR will record a screenshot of each step, logging everything you type and click. When you're finished, click the Stop button and save the file. E-mail the archive to someone who's better informed for a solution. (Note: This resource can also be used to make quick-and-dirty tutorials.)

Give yourself more screen real estate.

You can shrink Windows 7's oversize taskbar icons by right-clicking the taskbar, choosing *Properties*, and selecting *Use small icons*. This option shrinks the size of the taskbar by half, giving you a few extra millimeters of vertical screen space.

Turn off Aero Snap. By now you certainly know that in Windows 7, dragging a window to the side of the screen will autoresize it to fill exactly half of your available space, and dragging it to the top will cause it to fill the entire display. This is great for some people; but if you don't like Aero Snap, you're stuck with having to undo the resizing, often dozens of times per day. You can turn off this behavior with a Registry hack: Run *Regedit*, and



Day It anywhere.

FERE

SoundDock[®] Portable digital music system

Enjoy music where you enjoy everything else. Exclusive Bose® technologies and a rechargeable lithium-ion battery make it easy to bring your iPod® music to life and share it for up to 8 hours. Just about anywhere.

1-800-277-4901, ext. 4263 Bose.com/SoundDock

02016 Rose Corporation. The distinctive design of the SoundDack system is also a registered trademark of Rose Corporation. Pod is a registered trademark of Apple Inc. iPod not included. Delivery is subject to product availability

Manage Add-ons

Add-on Types

GNag

Scan

AntiVir Personal Edition Classic

Block

Name

Block

View and manage your Internet Explorer add-ons

USE THE MANAGE Addons menu in Internet **Explorer to eliminate** browser plug-ins that are slowing down your launch times.

then browse to HKEY_ CURRENT_USER\Control Panel Desktop; there, set

WindowArrangementActive to 0. After completing this step, you'll have to reboot.

Snap windows faster. But what if you like Aero Snap? Here is a faster way to snap windows right or left by using keyboard shortcuts instead of the mouse. <Windows Key><Left Arrow> snaps left, and <Windows Key><Right Arrow> snaps right. While we're at it, <Windows Key><Up Arrow> will maximize your window, while <Windows Key><Down Arrow> will minimize it. (Note, however, that if you have done the Registry hack described in the preceding tip to turn off Aero Snap, that hack will have disabled these particular shortcuts, too.)

Lowercase all-capitals text in a trice. In Microsoft Office apps, convert the text to lowercase by selecting it and pressing <Shift><F3>. Press <Shift><F3> a second time to convert the text to title case (Which Looks Like This).

Customize your system tray.

Windows 7 helpfully decreases the amount of space dedicated to the Notification Area by putting all but the most essential notifications within a drop-down (or, in this case, drop-up) box. It looks nice, but you can burn lots of time with wasted clicks as you hunt for what you need. If you want regular, click-free

change the default layout. It's easy to do. Just open the tray's spillover window and drag the icons you want to the taskbar area. You can rearrange icons within the added window, too.

Name

Pin almost anything to the taskbar. There is practically no limit to the things you can pin to the taskbar: often-used folders, the Control Panel, even a button to shut down your PC. (For the last option, find shutdown.exe in the System/Windows32 directory, create a shortcut to it, and then append this text to the target in Properties: /s/f/t00).

Definition Editor About

plorer load faster. When IE loads very slowly for no clear reason, it's usually due to an add-on clogging the pipes. Fortunately, one of IE's best features is that it allows you to see how long each add-on is taking to load. You can find this under Tools . Manage Addons. Check the 'Load time' column to see what has been weighing you down.

Status

File date

2/2/2009

6/19/2010

5/21/2009 5/21/2009

5/21/2009

5/21/2009

Work around a Jump List limitation.

Jump Lists are great, but Windows 7 no longer offers a way for you to open a new instance of an application-a new Word document or a new browser window, for example-by right-clicking on the

> application's icon in the taskbar. Instead of resorting to the File menu, hold down <Shift> and then left-click normally on the taskbar icon to open a new instance of the application, leaving your other open windows in place.

> > **Get a quick**

HATE STARING AT splash screens while your programs load? Use GNag to kill splash screens and other annoying pop-ups.

Unblock

- 0

Status

Blocked

Blocks the pop-up that appears during updating and the splash screen that appears when Windows boots. Based on the 4th method here: http://www.elitekiller.com/files/disable_antivir_nag.htm

peek at the desktop. Simply click <Windows Key><Spacebar> to hide all open windows. Keep the

<Windows Key> held down, and then release that key to return to your former environment with all its open windows in place. **>>**

	a second s		
Toolbars and Extensions	Adobe Systems Incorporated	CONTRACTOR DUCTOR	
P Search Providers	Shockwave Flash Object	Adobe Systems Incorpor	Enabled
Accelerators	Adobe Systems, Incorporated	Adaba Catana Income	Enabled
CINPrivate Filtering	Adobe PDF Link Helper Hewlett-Packard Company	Adobe Systems, Incorpo	Enabled
	HP Print Enhancer	Hewlett-Packard Comp	Enabled
	HP Smart BHO Class	Hewlett-Packard Comp	Enabled
	🖄 Show or hide HP Smart Web Pri	Hewlett-Packard Comp	Enabled
	HP Smart Web Printing	Hewlett-Packard Comp	Enabled
	Microsoft Corporation		

Publisher



Crucial has over 280,000 possible memory upgrades. There's one to meet your needs and your budget.

At Crucial, we're the Memory Experts[™]. A DRAM upgrade makes computing easier. We have guaranteed-compatible upgrades for nearly every system out there — desktop or notebook, PC or Mac[®].

For product information, online tools and more go to www.crucial.com/pcworld



*For a limited time, place an order over \$40 at www.crucial.com/pcworld and get free shipping (7-12 business days) within the contiguous U.S.
©2009 Lexar Media, Inc. All rights reserved. Information is subject to change without notice. Crucial and the Crucial logo are trademarks and The Memory Experts is a service mark of Micron Technology, Inc. All other trademarks are the property of their respective owners. Lexar Media, Inc. is a subsidiary of Micron Technology, Inc. Lexar Media, Inc. is not responsible for omissions or errors in typography or photography. Ad expires 30 days after publication.

Save downloads to a different directory.

The Windows 7 Downloads directory sounds convenient, but since few users ever go browsing there, downloaded files may be forgotten for days. Most browsers will default to downloading into this directory. Firefox and Chrome users can change this relatively easily, though, to something more convenient. In Firefox, click Tools • Options. Under the General tab. change the 'Save files to' setting to the directory of your choice. In Google Chrome, click the Tools icon (it looks like a wrench), then Options. Click the Minor Tweaks tab and change the 'Download location' setting there. IE users unfortunately have to hack the Registry to make this change (a step that only power users should consider taking).

Zoom faster. In Windows 7 and Vista, <Ctrl><Mouse Wheel> lets you zoom in and out in most applications. In Windows Explorer, this combo makes icons and thumbnails larger or smaller. In Web browsers and most graphics programs, it changes the font size or the zoom level up and down.

Control your postvacation time. Never schedule anything for the day after you come back from a long trip or vacation, since you'll need this day to catch up on everything you've missed while you were out. If you use a shared calendar system, book the entire day of your return with "meetings" before you leave.

Save time with VolP. You can save significant time—and possibly money, too by using a VolP system that allows you to click phone numbers in Web pages and in e-mail messages and dial them directly via your PC. Skype (skype.com) offers such an option, which works broadly in e-mail and on most Websites, and Google recently integrated its own VoIP offering, Google Voice,

ADAM PASH

Tips from Adam Pash, editorin-chief of the insanely useful Lifehacker.com.

TIPS

Pash's approach to computing is to "do everything in as few key-

strokes as possible, or have your computer do them automatically for you." One tool he uses is Launchy, which lets you type the first few letters of an application's name to launch it. While Windows 7's integrated search features make Launchy somewhat less critical, it's still a useful application. launchy.net

2 Pash himself developed Belvedere, an automated file manager for Windows that lets you apply rules to folders and take action on them as certain criteria are met. For example, you can specify that folders that go untouched for extended periods of time be deleted, or that files with a .jpg extension be automatically routed to a pictures folder. find.pcworld.com/70910 (download)

3 Dropbox is invaluable not just for backing up a PC but for syncing its data with multiple computers, which is key if you use more than one PC. It also works with the iPhone, the iPad, and Android devices. dropbox.com

4 Simplenote is a plain-text note-taking system that, like Dropbox, can sync among multiple desktops, the Web, and an iPhone. This no-frills alternative to Evernote ensures that notes never get lost. simplenoteapp.com

Instapaper is a similar tool that simplifies Web pages and lets users read them later. instapaper.com

5 Finally, Pash says that Gmail's new Priority Inbox feature is a "pretty good attempt at helping you deal with the glut of things that arrive in your Gmail inbox that you're faced with every day."

into Gmail (gmail.com). In addition, Google Voice saves call histories as they take place, integrating them into the Gmail contact management system.

Get rid of splash screens and daily nag pop-ups. Splash screens do nothing for productivity. GNag (gnag.sourceforge.net) will get rid of many of them for you with a simple install. The application focuses on eliminating the vanity videos that play when you launch many video games, but it also suppresses, for example, the annoying pop-up message that you get daily with the free version of the popular Avira AntiVir Personal Edition Classic antivirus software.

Don't get involved with FarmVille. This advice is obvious but crucial.





"25 Products We Can't Live Without" March 2008

Is This Your Password System? Ours is Better!

Amazingly fast and easy to use, RoboForm automatically:

- Remembers your usernames and passwords.
- Logs you into all your favorite websites.
- Reduces your many passwords to just one.
- Increases security and helps protect your identity.
- Fills long forms and so much more!

We've been saving you time and making your life easier since 1999. More than 26 million downloads, and **over 100 five star ratings** later we are by far the World's #1 Rated Password Manager. RoboForm has earned prestigious recognition including PC Magazine Editors' Choice, CNET's Best Software of the Year, and PC World's "25 Products We Can't Live Without."

PC World Readers Download RoboForm for FREE!



www.RoboForm.com/PCW

User Name Jsmith Dassword Johnny 45

RoboForm Enterprise is also available for your business - Learn more at RoboForm.com/Enterprise





Best Products

PCWorld's exclusive ranking of the most innovative, useful, and influential tech of the year. »

BY PCWORLD'S EDITORS





CIOECUD

Google Android 2.2 (smartphone operating system; included with phone) Mobility led the tech industry in innovation in 2010, and amid a flourishing array of great mobile products,

we found one consistent standout this year: Google Android. Expected to eclipse Apple's iOS in market share by year's end, Android brings powerful apps, a slick interface, and extreme customizability to a host of phones and tablets available across a multitude of carriers. This range of options with Android is the one thing that the iPhone can't promise. Add to that mix a flexible browser with Flash 10.1 support, OS-wide voice control and dictation features, and a rapidly expanding app ecosystem, and Android 2.2 (also known as "Froyo") is the OS to beat in the burgeoning mobile age. 2 Apple iPad (tablet; starts at \$499) We're in the midst of a revolution that's putting slates at the forefront, and the iPad deserves full credit for launching it. After years of false starts for tablets, Apple's 9.7-incher bucked the trend with a svelte look, a robust yet simple touch interface, and a phenomenal app collection. 3 Amazon Kindle, thirdgeneration (c-reader; \$139) Amazon rewrote the rules for e-readers with its



third-gen Kindle. The Wi-Fionly version delivers convenient e-book shopping along with a stellar E-Ink Pearl screen and a streamlined, lightweight design. Netflix (streaming video Service, video-by-mail plan; starts at \$9, Watch Instantly free with monthly plan) Netflix came on strong this year with Watch Instantly. Aside from the popularity of the service on desktop PCs, the Watch Instantly app made a splashy debut on other devices such as the iPad. iPhone, and iPod Touch. Samsung Galaxy Tab (tablet; price to be determined) This sleek little slate is the best Android tablet we've seen. It brings polished software and design finesse to a fun, multipur-

pose touchscreen device. It's

the iPad for the rest of us.

6 Sony Alpha NEX-5 (digital camera; \$650) This compact interchangeable-lens camera is the finest we've tested, thanks to excellent image and video quality, modes that make capturing panoramic and low-light images a breeze, and (with a firmware update) the ability to shoot 3D images.

7 (*laptop; starts at \$1149*) The Envy 14 is one of the slickest all-purpose laptops of the year. The Beats Edition turns it up to 11 with a black finish, red backlighting, dark chrome accents, and a pair of Beats headphones.

8 Samsung Epic 4G (smartphone; \$249 with Sprint contract) Of all the Android phones that launched this year, the Epic 4G is tops. The nicely designed physical keyboard, paired with

4G-network goodness and a front-facing camera, makes it hard to beat. Additionally, the gorgeous dis-



play and Samsung's Media-Hub make it the ultimate entertainment smartphone. **D** Instapaper (mobile app; free) Available for many platforms, Instapaper pulls



the words and images from a site and sends them to a mobile device for reading on the go. With its browser plug-in, you simply click 'Read Later' on an article to put the cleaned-up version on your phone or tablet.

10 Microsoft Security Essentials (antivirus software; free) When a product is this solid, it redefines the category. This tool offers malware detection in an easyto-use package with a welldesigned interface—and it doesn't nag unnecessarily. 11 Samsung UN55C8000 (I CD HDTV: 52000)

▲ ▲ (LCD HDTV; \$2900) This LED-backlit, 55-inch TV set has lots of features and great image quality. It's less than an inch thick, too.



13 Apple iPhone 4 (smartphone; starts at \$149 with ATGT contract) Despite initial con-

cerns, the latest iPhone is a stylish, attractive groundbreaker. This phone screams design elegance and has the software and gorgeous display to match, as well as the richness of the Apple App Store at its command.

14 Google Chrome (Web browser; free) The top pick in our tests is fast and well designed, has a clean and functional interface, supports plenty of add-ons, and provides strong security features. Chrome also offers

HP TouchSmart 600 Quad (*desktop*; \$1699) HP's latest TouchSmart all-in-one PC packs a punch, offering great performance and a vibrant 23-inch multitouch display. It won't replace your TV, but its connectivity options make it just as useful when you hook it up to your cable box or your game console.



extensive customization options for power users. HTCHD7 (smartphone; \$200 with T-Mobile contract) It's too early to determine the success of Microsoft's just-launched Windows Phone 7 OS, but the HTC HD7, which uses it, is one impressive handset with its 4.3-inch WVGA display, kickstand, and 16GB of memory. Throw in Netflix streaming, Xbox Live, and the Zune player, and you have a fantastic entertainment phone.

16 Crucial RealSSD C300 (solid-state drive; \$600) This is the first SSD we've tested to support 6-gigabits-



per-second SATA, which enables faster write speeds because it can push more data through the pipe. This 256GB drive delivered topflight overall performance and the best write times. **Blizzard Entertain**ment StarCraft II (game; \$60) Twelve years in the making, the highly anticipated sequel to the 1998 real-time strategy gaming classic does not disappoint. **O** Panasonic Lumix O DMC-LX5 (digital camera; \$500) The DMC-LX5 shines once you take it out of Auto mode and put it in Manual, offering instantaneous autofocus, great video quality, a macro mode that lets you practically touch the lens to your subject, a

Find More Online

Looking for additional information on the 100 products, apps, and services we selected as the best of the year? Point your browser to find. pcworld.com/70937 to see links to reviews and news coverage, as well as to post your comments.

bright f/2.0 aperture lens, and good low-light shooting.

19 Microsoft Office 2010 (office suite; starts at \$280) After years of ceding the online productivity world to Google Docs, Microsoft finally builds Web apps into the latest Office suite. Word, Excel, and PowerPoint all have new features for collaborating online. In addition, Power-

Office

Point gains built-in video editing and playback, smooth new transitions, and a tool for broadcasting slideshows across the Web. Samsung LN46C650 (LCD HDTV; \$1100) The LN46C650, an inexpensive set that lacks the LED backlighting and 240Hz refresh rates of rival models, nonetheless clobbers them in image quality. It's a better TV, yet it costs about \$2000 less than its nearest competitors. >>



library—including your home movies and iPhoto pictures—to your TV? This device handles all of that and streams Netflix, too, with typical Apple flair.

22 Western Digital WD TV Live Plus (media streamer; \$150) This network media player edges out the better-known Roku with its mix of online streaming services and its ability to stream your content via a network or a USB drive.

23 Canon Pixma MG8120 (color inkjet multifunction printer; \$300) Canon's good-looking MFP has a 3.5-inch, tiltable, color LCD screen and touch controls integrated into the top lid. It also produces smooth text output at a good clip, and its replacement ink costs are reasonable. 25 Motorola Droid X (smartphone; \$199 with Verizon contract) The Droid X, follow-up to Motorola's wildly successful Droid on Verizon, was one of the hottest phones of this summer, sporting a 4.3-inch display and an 8-megapixel camera. The Android 2.2 OS update made it even better, bringing Flash content to its speedy Web browser.

Adobe Creative Suite

sofiware; starts at \$1899) For design pros, this suite of applica-



tions remains a class act. Adobe's latest iteration introduces fresh refinements

Blizzard Entertainment World of Warcraft: Cata-

clysm (game; \$40) The third expansion—and a dramatic overhaul of the megapopular massively multiplayer online role-playing game demonstrates why WOW is still number one. We've played the beta version of the expansion enough to feel confident that it will absolutely be among the year's best titles. alongside Webfriendly features. **27** Canon EOS 7D (digital camera; \$1700) This 18-megapixel DSLR camera



has the features and shooting power of a pro model, but its price puts it within reach of enthusiasts. Of note are its high-resolution LCD screen, handy Live View functions, and 1080p video, as well as its impressive 8-frames-per-second continuous-capture speed. **28** Sony Handycam NEX-VGIO (camcorder;

\$2000) This interchangeablelens HD camcorder shoots 1080p AVCHD video and 14-megapixel stills—and it costs about \$4000 less than the only other swappablelens camcorder around, a model from Panasonic.

29 Alienware M11x, second revision *(laptop;* starts at \$949) Finally, an ultraportable notebook with enough power for real 3D gaming. This 11-inch system boasts a Core i5 or i7 CPU, plus nVidia's Optimus automatic graphicsswitching technology.

Coming Soon? • RIM BlackBerry PlayBook: With this iPad rival, tablets may get down to business. • Google Chrome OS: We still yearn for this promising open-source operating system.

• Firefox 4: Mozilla's update looks to have a cleaner interface; the mobile browser will get improvements, too. (Both were still in beta at this writing.)

• Android 3.0: We hope 'Gingerbread' delivers video chat, additional tablet OS functionality, and more features.

• 'Sandy Bridge': The new Intel microprocessor design might just make integrated graphics respectable.







More info: find.pcworld.com/70937



It doesn't take a rocket scientist to see the benefits of SSDs





OCZ SSDs not only deliver a more responsive PC experience, but provide a cooler, quieter, and more durable solution compared to mechanical hard drives. With our SSD expertise we've designed the fastest bang-for-the-buck drives on the market, making the choice an easy one when it comes to picking the ultimate storage solution.





30 Sonos ZonePlayer S5 (networked audio player; \$399) The S5—an affordable version of the impeccable Sonos audio system—can also play music from a hard drive and online services.

31 Sony Reader Pocket Edition PRS-350 (e-reader; \$180) With a 5-inch screen, the Pocket Edition is superlight. It also rocks a sharp, high-contrast

E-Ink Pearl screen and Sony's optical technology that turns the display



into the touchscreen that we've long been craving. **32** nVidia GeForce GTX 460 (graphics board; \$200) Seeking well-priced, high-caliber performance for work or play? nVidia may have been a little late to the Direct X 11 game, but this gem offers great graphics at a great price.

3 Origin Genesis Midtower (desktop: \$3600) Few can beat this overclocked sensation's blistering performance. Liquid cooling protects the CPU, and the case allows plenty of upgrades. Google Voice (phone service; free) You can have a single number that reaches multiple phones and text inboxes, along with free SMS texting and call conferencing. Voice transcriptions need work, however. C Logitech C910 (Web-JJ cam; \$100) You get crystal-clear 1080p video and a sleek design. Skype-HD video-calling support boosts this unit's appeal. Bump (mobile app; **JU** free) Need to send a song, a contact, or a PayPal payment between smartphones? Run this app and bump the two phones. It works between Android devices and iPhones, too. **Norton Antivirus** 2011 (antivirus software; \$40 one-year, single-PC license) In our tests, Norton had consistently high mal-

142mg1

Panasonic

HDC-SDT/50

EMOS

ware detection scores. Its interface is easy to use. **20** MOG (mobile app and service; \$10 a month after trial) MOG lets you stream the songs you want to hear, not those that it selects. For instance, you can make "artist stations" that play only songs by the person or band in question. 39 AMD Phenom II X6 1090T (processor: \$280) It may not be the fastest six-core CPU-but with a price that's \$700 lower than rivals, it brings hexacore performance to the masses.

40 Livescribe Echo Smartpen (input device; \$170 for 4GB, \$200 for \$CPD The audio

8GB) Tie audio recordings to your written notes, and play them by tapping your words with the pen tip. The USB port lets it act as an input device when it is connected to a computer. **41 Google Gmail** (*Web service; free*) We like the cool, new features such as the Priority Inbox, which arranges incoming

FULL

AVCHD SE

e-mail based on your reading and sorting habits. Also new is voice calling.

42 Western Digital 3TB My Book Essential (hard drive; \$250) Need tons of space? This four-platter USB 3.0 drive boasts speedy performance and blasts past previous capacity limits.

43 Clickfree Network CN2 (backup device; \$140 for 500GB) Clickfree's automated software for this drive permits easy backups of multiple networked PCs.

44 Flipboard (mobile app; free) This iPad app turns Facebook and Twitter feeds into a personalized magazine. Swipe through pages of photos and videos, or feeds from Web sources.





30



GT3 N N EVER THEY'LL N EVER KN GVV WHAT HT EM

673JW-XN1

Save an additional \$25 with promo code G73JW25

INTEL* CORET IT PROCESSOR

GENUINE WINDOWS® 7 HOME PREMIUM

Search Newegg: 34-220-834

ARE

NVIDIA® GEFORCE® GTX 460M GRAPHICS WITH 1.5GB GDDR5 VRAM

OBLITERATE THE COMPETITION WITH THE OVERWHELMING POWER OF THE ROG G73JW-XN1

FEATURING ALL-NEW NVIDIA® GEFORCE® GTX 460M GRAPHICS, THIS STEALTH FIGHTER-INSPIRED GAMING POWERHOUSE IS JAM-PACKED WITH THE LEADING-EDGE TECHNOLOGY TO PROPEL MOBILE GAMING TO UNSEEN LEVELS. LEARN MORE AT: WWW.NEWEGG.COM/ASUS

FOR OUR ONLINE GAMING TOURNAMENTS, GO TO: WANFEST.NEWEGG.COM

ONCE YOU KNOW, YOU NEWEGG.® PRICE + SERVICE + SELECTION Followuson:

52000-2910 Newsgy Inc. All rights reserved. Pricing and Availability. Promo Code good from 11/07/10 (through 12/24/10 or while supplies last. Promo code valid with Invide are exhausted. Prices, availability and terms of effects may change without notice. Takes and wipping changes, if applicable, are not shown. Newegg is no exposuble for pricing or other entries on reserve. The notion is carried online entries. All third party loops are the emergination events of entries on the mapacity events of the mapacity events.

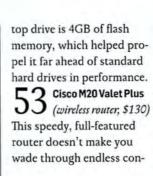




PCWorld

46 Handcent SMS (mobile app; fire) This simpleto-use Android app sports features that put other SMS clients to shame.

47 HTC Droid Incredible (smartphone; \$200 with Verizon contract) With its AMOLED display, excellent camera, and slick design, the Incredible is one of the best Android phones on Verizon. 48 SlingPlayer Mobile (mobile app; \$30 per month) Play live cable TV from home on your mobile device using this app. It runs on cell and Wi-Fi networks. At Bat 2010 for iPad (mobile app; \$7) Monitor every big-league game, watch highlights, and listen to games live. Subscribe to MLB.tv, and you can watch nonlocal games. XMind (productivity software; free and \$49 versions) If you're interested in trying mind mapping to record ideas, use the free edition of XMind. It works in Windows, Mac, or Linux. 51 **PC**Tools Internet Security 2011 (security suite; \$50 one-year, three-PC license) This suite's pricing makes it a great value, and it earned strong malware detection scores in our tests. Seagate Momentus XT (hard drive; \$120 for 500GB) Inside this 7200rpm, 2.5-inch internal lap-





figuration menus. Competitors may be cheaper, but the Valet Plus is idiot-proof. **Rovio Angry Birds** (game; \$1) Catapult peeved birds into the fortress of a gang of pigs. Physics combines with luck in a game that uses iPhone 4 multitouch controls well. C C MyInnergie mCube Mini (power adapter; \$70) Skip the power brick. This lightweight auto/air adapter is barely bigger than two thumbs. It powers any laptop requiring up to 65 watts at 15 to 21 volts. Lookout Mobile Secu-**30** rity (mobile app; free) This triple-threat protector for Android phones runs virus scans, tracks a lost handset, and backs up data.

Maingear F131

(desktop; \$2000) This PC focuses

roomy, laser-etched chassis are an

overclocked processor and a pair

of beefy nVidia graphics cards. It

we've seen at its price point to date.

delivered the best performance

on one thing: speed. Inside the

58 (graphics board; \$400) This ATI/AMD card offers some of the best performance you'll find in a GPU, at a decent price. Rivals may set the mark on graphics performance, but the 5870 is still the board to beat.

59 iVina BulletScan S300 (scanner; \$299) Versatility and performance are the highlights of this two-inone, 600-dpi duplex scanner. Take the USB-powered mobile scan module on the road to input forms, receipts, photos, and business cards.

60 DimDim (online service; free, more than ten users starts at \$25 per month) An online meeting tool that needs no installation, Dim-Dim enables polls, four-way video chat, and document sharing and storage. You can embed videos and Picasa photo albums, as well.

61 Smartfish ErgoMotion Mouse (input device; \$50) Resting on a pivot, this unique mouse adjusts position to match your motions. The result is surprisingly comfortable mousing.

62 Lenovo ThinkPad x100e (laptop; starts at \$449) AMD Athlon and Turion processors make this ultraport-



able snappier than Atom-based netbooks. You also get Lenovo's great keyboard and touchpad quality.

63 Second Rotation Gazelle (Web service; commission on sale) Find price quotes for old tech, plus recycling options for gear no longer worth money.



More info: find.pcworld.com/70937



NeatDeski DESKTOP SCANNER + DIGITAL FILING SYSTEM

This high-speed, duplex scanner lets you scan multiple paper types all at once, or even insert up to 50 pages for lightning-fast batch scanning.



NeatReceipts

MOBILE SCANNER + DIGITAL FILING SYSTEM

At less than one pound, the USB-powered scanner fits easily in your laptop bag and is perfect for the road, home, or office.

FOR MAC OR PC

WILL YOUR OFFICE BE NAUGHTY OR NEAT FOR THE HOLIDAYS?

Paper Monsters love the holidays. Year-end expense reports, gift receipts—even cookie recipes—can quickly grow to beastly proportions. But Neat helps you stay merry and clutter-free at work, at home, or on the go. Whether it's the portable NeatReceipts* or the lightning-fast NeatDesk*, our patented software extracts key details from your paper and organizes it all in a digital filing cabinet. Good for productivity. Great for gift giving. Bad for Paper Monsters.

- Scan and organize receipts, business cards and documents in a digital filing cabinet
- Create expense reports, IRS-accepted tax reports, digital contacts and searchable PDF files
- Export data to Excel," Outlook," QuickBooks," Quicken," TurboTax* and more



TO ORDER VISIT neatco.com/PWFREE OR CALL 866-395-3540





64 Facebook (social networking site; free) The addition of the Places geolocation service and revamped privacy controls keep Facebook on our list for the second year in a row.

65 Plantronics K100 (Bluctooth speakerphone; \$80) Clip this gizmo



to your car's visor to manage phone calls. It also lets you listen to streaming audio through your car speakers. 666 -

(mobile app; \$8) This painting app for the iPhone and iPad has layers, brush types, and more. One artist used the iPhone version to make a New Yorker cover.

67 Alphonso Labs Pulse News Reader (mobile app; \$4) Rather than using an e-mail inbox-style layout, Pulse is more visual, promoting leisurely reading. It's an attractive—and enjoyable—alternative to traditional RSS apps.

68 Corsair 800D (*PC case; \$270*) It's no surprise that several top performance desktops use this case. The sides pop off easily, and hot-swappable bays are built onto its face. A compartment for cables keeps the interior neat.

69 Charlen interior neat. Gnap TS-259 Pro Turbo NAS (storage device; \$600) This startlingly fast Intel Atom-powered, two-bay network-attached storage box offers business features and media software, plus the QMobile iPhone app for remote access. 70 Fuze Box Fuze Meeting (Web service; \$29 to \$69 per month) Make a presentation or share your screen with far-flung colleagues. In our experience, the service has little lag time. 71 Evernote (Web service;

The eventue (web scrute, free, or \$5-per-month premium service) We've long touted Evernote's cloudbased note-taking functions. This year's innovation is its open ecosystem of plug-ins. This pear a Go Super-Speed USB 3.0 (hard

drive; \$140 for 1TB) This pocketable USB 3.0 drive boasts speedy performance.

Iomega's software suite, 256-bit AES hardware encryption, and increased drop



tolerance are key features. **73** Gateway SX2840-01 (desktop; \$560) Small, svelte, and packed with stellar components, this budget PC delivers great performance and a large hard drive.



Jabra Clipper (Bluctooth headset; \$50) This stereo headset attaches earbuds to a unit that clips onto your shirt and allows you to switch easily between phone calls and music. Or, if you prefer, you can use your own headphones with it.

75 Lenovo ThinkPad w701ds (laptop; starts at \$3299) This dual-screen monster is outrageously fast. It also has display color calibration, an integrated Wacom drawing tablet, USB 3.0, and the kitchen sink.

76 FitNow Lose It (mobile app; free) When you want to lose weight, recording what you're eating is a big help. This app lets you enter your food intake on your iPhone or iPod Touch.

Cisco Flip UltraHD 8GB with FlipPort (camcorder; \$200) This gamechanger shoots smoother video than its predecessors did, thanks to the addition of digital image stabilization and a faster, 60-frames-persecond rate when capturing 720p video. But the big draw is the FlipPort, which allows you to attach accessories such as microphones and battery extenders. 78 Samsung BD-C6500 (Blu-ray player; \$225) Its picture is among the best we've seen, and it can bring Netflix, Pandora, Vudu, and YouTube to your TV.

79 PopCap Games Plants vs. Zombies HD (game; \$10) The iPad version of this zombie-bashing defense title is arguably the best.

80 Asus Eee PC 1201n (netbook; \$450) You get a 12-inch screen, nVidia Ion graphics, Windows 7 Home Premium, and 2GB of RAM—all of which are above the norm for a netbook.

81 Genieo (browser addon; free) This add-on for Firefox or Internet Explorer keeps track of where you go on the Web, and creates a newsy home page.

82 Jabra Extreme (Bluctooth headset; \$80) Jabra's excellent headset overcomes the clatter of the big city or a busy household. 83 Virgin Mobile Beyond Talk Plans (prepaid service; \$25 to \$60 per month) Get unlimited messaging and broadband, and tiers of voice service, contract-free.

Are You in Sync?



GoodSync is Easy, Fast, Automatic and Completely Reliable...

Let's face it...you have a lot of important data on your computer such as emails, contacts, precious family photos, extensive music collections, sensitive financial documents, etc. Losing those files would be a nightmare. Everybody knows they should backup their files, but few ever do, until now...

GoodSync will:

- Automatically backup your data
- Easily synchronize between multiple locations
- Effortlessly transfer files between devices
- Seamlessly work with FTP, SFTP, and WebDAV
- Help you achieve complete peace of mind!

Backing up or keeping multiple computers and devices in sync has never been easier. Available on both Windows and Mac, GoodSync's leading technology also powers Government, Fortune 500 and many small business' backup and disaster recovery solutions. What are you waiting for?

PCWorld Readers Download GoodSync Today Free Trial

GoodSync.com/PCW



GoodSync Enterprise is also available for your business - Learn more at GoodSync.com/Enterprise



84 Dell UltraSharp U2711 (LCD monitor; \$1099) Having 27 inches' worth of

pixels is a nice luxury. This



2560-by-1440 panel's quick response time addresses ghosting and blur in games and movies.

85 Grooveshark for Android (streaming audio service; \$3 per month) Stream any song you want right to your Android phone.

86 Epson PictureMate Show PM 300

(printer, \$300) This snapshot printer—with 270MB of memory and a 7-inch, 480-by-800-pixel, 15:9-aspectratio color LCD—also serves as a digital photo frame. You can incorporate effects into a slideshow, too.

You can even download songs for offline mode. **87** Polar WearLink+ Transmitter Nike+ (fitness gadget; \$70) This chest strap transmits your heartrate data to Nike+ devices for tracking over time.

OO (mobile app; free) Request a cab, see how far away it is, and pay for it on your Android, BlackBerry, iPhone, or PalmOS handset. **89** Belkin Conserve Smart AV (power strip; \$39) Display energy usage in dollars. Plug in devices and see how much it costs to keep them powered. **90** Bitalpha Taska (mobile app; \$5) Drag-and-drop operation

O O RideCharge Taxi Magic

makes task tracking simple. Tagging, search, and sorting features keep you organized. **91** ^{3M MPro120} (projector; \$350) Use this pocket-size model for presentations to small groups under low light, or to display a 60-inch-diagonal image. **92** B&WP5 Mobile Hi-Fi Headphones (headphones; \$300) If you want »

More info: find.pcworld.com/70937

The Flops of 2010

- Google Wave: Nobody surfed it.
- · Microsoft Kin: Died before the family reunion.
- Palm WebOS: Only HP bought into this.

A Remarkable Solution for Preserving and Sharing Memories



mobile

Stores scans on SD memory card Battery powered

versatile

Scan small to large originals Stitching software included

Accurate High quality digital images 300 and 600 dpi

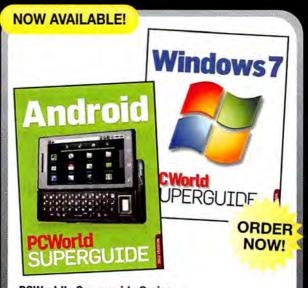
easy and quick Push one button to scan No computer required to scan

keep your memories safe

Scan album photos in place using the patented flip-and-scan technology

www.flip-pal.com/best-gift

Great Gift for Scrapbookers, Photo Hobbyists and Memory Keepers



PCWorld's Superguide Series

These handy collections are produced by the editors of PCWorld. Packed with in-depth features, practical how-to tips, troubleshooting advice, the best time-saving tricks, and more.

pcworld.com/superguide

PCWorld Superguides are available in two convenient formats for \$12.95 each: Downloadable PDF: Get immediate access to our superguide content PDF on CD-ROM: Order the disc and always have a backup

Ultimate Speed Breakthrough

S599 2.5" Solid State Drive



Low power consumption Black anodized aluminum casing with brushed hairline finishing.

Performance

The latest SF-1222 SandForce controller facilitates transfer speed up to 280/270 MB/s in R/W.

Endurance

Static Wear-Leveling algorithm prevents Flash cell degradation, and the built-in ECC function supports the ECC Recovery.

Reliability

Shock-proof, vibration-proof, and compact, S599 consumes little energy, creates zero noise and is more reliable when compared to conventional hard drives.

- SATA II interface
- Ultra-fast Seq R/W up to 280/270 MB/s
- Metal case with better heat-spreading
- Support WIN 7 TRIM command
- Reach the limit performance of SATA II
- Built-in ECC circuits ensuring data transfer integrity
- No seek time and no latency time
- Low power consumption
- No noise and low working temperature
- Shock resistance and anti-vibration



Where to buy:





www.adatausa.com

ADATA RBB

rece or co



full-size sound quality and outstanding passive noise isolation, look no further. **93** Apple iPod Touch, 2010 version (multimedia player; \$229 for 8GB, \$399 for 64GB) Adopting features from the iPhone 4, such as a front-facing camera for video chat, the Touch is great for media, Web surfing, and pocket gaming. **94** TheFind.com (Website; free) This shopping engine outdoes Google and Bing, allowing you to filter products. It has coupons and reviews, too.

Adobe Photoshop O Lightroom 3 (image software: \$300) In addition to tools that sort, organize, develop, and publish photos, version 3 has a new noise-reduction engine and improved RAW processing. Astro A30 Headset (headset; \$130) Paired with the company's MixAmp (\$200 for the set), the A30 is one of the best investments a PC gamer can make for comfortable, great-sounding audio. Q Prezi (Web service; O basic version free) This PowerPoint alternative enables remote meetings and offers a virtual whiteboard to doodle (or plot a

world takeover) with others.



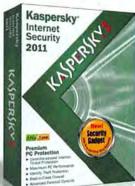
99 (GPS; \$200) Boasting a larger-than-average 5-inch screen, this navigation device includes lifetime traffic alerts and map updates.

100 Ubuntu 10.10 (operating system; free) Ubuntu is a great way to breathe new life into a PC or break free from commercial software. And Linux is arguably the most secure PC platform you can find.

More info: find.pcworld.com/70937

Y S S Microsoft Arc Touch Mouse (*input device*; \$70) Pack it flat to store it; for use, it becomes a comfortable arch. The touch strip replaces a scrollwheel.

Kaspersky Internet Security 2011. The Fastest, Smartest Kaspersky Yet.

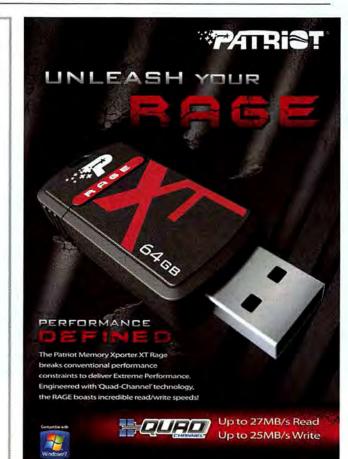


Innovative technologies keep you safer.

An intuitive interface makes it easier.

Our most advanced security software, Kaspersky[®] Internet Security 2011, combines essential anti-virus protection with additional layers of defense, such as firewall, anti-spam, parental controls and more.



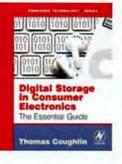


STORAGE VISIONS²01

AN ENTERTAINMENT STORAGE ALLIANCETH EVENT STORAG ALLIANCE January 4-5, 2011 Riviera Hotel-Casino, Las Vegas, NV, USA



Dr. Tom Coughlin is the Distinguished Author of the New Book "Digital Storage in Consumer Electronics" and the Founder and Chairman of the Storage Visions™ Conferences.



3D Impact!



Come and Learn about The Force of 3D and Higher Resolution Images on Storage!

The Storage Visions[®] 2011 Conference Theme:



Increasing content resolution and stereoscopic content drive demand for content and storage devices that support making, distributing, using and saving that content

BE Where Digital Storage Converges with Content Creation and Delivery!

FIND HOW Digital Content will be Created, Protected and Stored from the executives, analysts and professionals at the forefront of Digital Technology!

JOIN CEO's, Industry Leaders, manufacturers and end users for our 10TH ANNIVERSARY at Storage Visions 2011!

Don't go to the 2011 CES until you know about the convergence of technologies that are revolutionizing the creation of digital content, its distribution and consumer electronics. The pre-CES 2011 Storage Visions Conference brings together technologists, vendors, retailers and users to explore the pod-, web-, life-casting consumer revolution and how you will preserve, protect, and search your life on Digital Storage. Conference sessions explore key infrastructure supporting the growth of richer media experiences including storage technologies, privacy protection, power creation and management, search and indexing technologies, home and mobile storage, next generation user needs and business opportunities.

What industry leaders say ...

"The Conference paid for itself 5 times over!" —David Kreft, NSA

"Storage Visions is a great opportunity to hear from industry leaders on market trends, speak with customers about their needs, and meet potential partners for targeted solutions, all in a setting that fosters one on one business conversations."

- Dean Neumann, Director, Product Marketing, Bycast Inc.

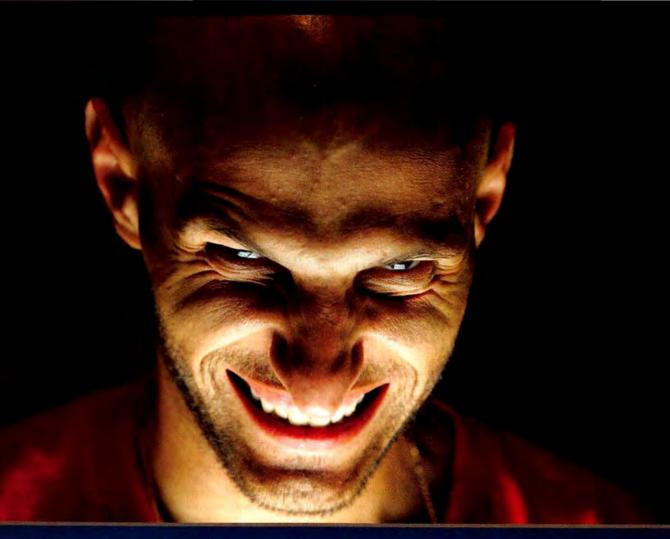
"Storage Visions brought together key decision makers in storage, computing and IT and offered a number of valuable and timely presentations. Armed with knowledge from the sessions and the many great demo's and exhibits, attendees can return to their organizations to investigate and deploy effective storage solutions."

- Brian Berger, Chair, Trusted Computing Group, Marketing Work Group and Executive Vice President, Wave Systems.

Sign up at www.StorageVisions.com

If you are a user, manufacturer or reseller of digital content solutions, learn how you can speak, exhibit or sponsor at Storage Visions 2008. Call us at 408 871-8808

WWW.STORAGEVISIONS.COM



This is 24 year old Tim. He's been texting your 12 year old daughter.

But luckily you know about the latest smartphone app for parents and bosses. You can silently monitor activities online.

Mobile Spy allows you to view the following in real time: Text messages, call info, photos, emails, GPS locations and more.

Compatible with Android, BlackBerry, Windows Mobile, Symbian OS and iPhone smartphones.

Call us toll-free at: 1.888.475.5345

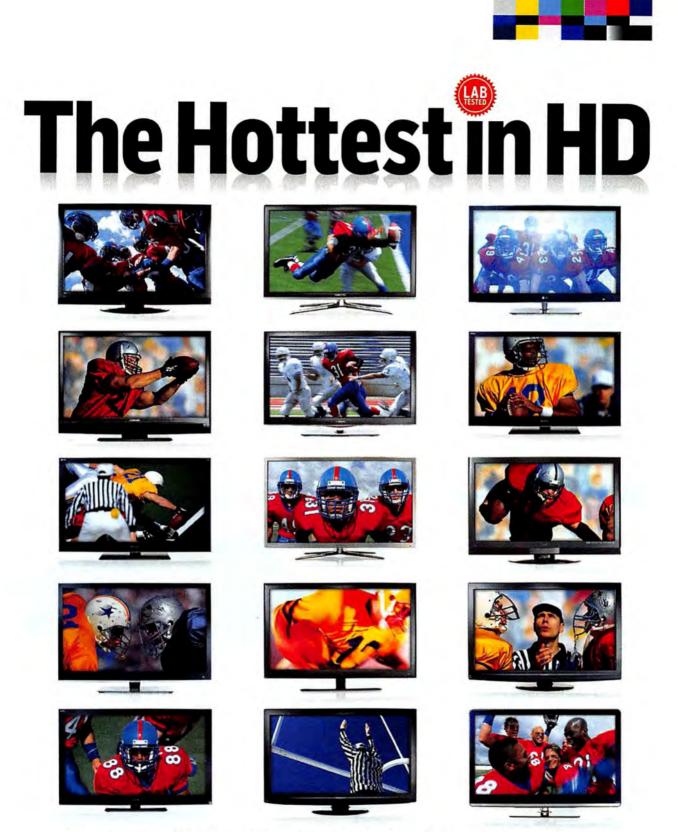
© 2010 Retina-X Studios, LLC. All Rights Reserved. Mentioned trademarks are prope

Or visit us online at: StopTim.com



Over 250 Million Logs Served

Retina Studios



The specs that matter, the hype that doesn't, and why 3D isn't ready for prime time. We review the top 15 HDTVs. >>

BY PATRICK MILLER • TESTING BY TONY K. LEUNG PHOTOGRAPHS BY ROBERT CARDIN



HDTVs are big, shiny, slim, and sexy-

everything people love in their electronics. But when it's time to buy a new TV, finding the right one isn't easy. Should you go with plasma or LCD? What's an LED TV? Do you need 3D support? What's the big deal about refresh rates?

To make things easier for you, we've tested, evaluated, and ranked 15 of the top new TVs currently on the market. Whether you're a big spender or a thrifty TV watcher, we'll help you choose a set that fits your living room and your budget.

The State of the Set

Although lots of technology goes into making a good HDTV, buying one isn't like buying a PC: Newer isn't necessarily better, a pricey set doesn't always show a better image, and you can't safely buy a TV strictly on the basis of its specs.

Every year, manufacturers release new high-definition television sets outfitted with all kinds of innovations designed to make the images clearer, the colors more vibrant, and the motion smoother; but many of the new features attempt to fix things that aren't broken—and end up failing in spectacular ways. For practical buying tips, see "10 Things You Need to Know Before Buying an HDTV" (find.pcworld.com/70939).

What's more, in many instances even different models from the same manufacturer have their own individual quirks, so you can't rely on the brand name as a guarantee of consistent quality. For example, even though the three Samsung TVs we tested were the best in their respective size categories, the 40-inch model had a number of image-quality quirks that the 46-inch and 55-inch models did not. The key lies in finding the set that does best with the kind of television shows, movies, and games that you want to view on it.

Before you gear up to start shopping for an HDTV, make sure that you're up-to-date on the specs and features that distinguish this year's lineup from last year's cutting edge.

INTERNET APPS: The masses (and the TV manufacturers) have spoken, and the Internet is now a part of your TV. The relevant Internet apps can take the form of add-ons like Yahoo Widgets that complement your TV viewing with Twitter, or news and weather feeds, or sources of streamed content through services such as Amazon Video on Demand, Netflix, and YouTube. The array of services offered varies greatly among different manufacturers, but the core features are here

3D TVs Are Here, but Nothing's On

WHEN YOU SHOP for a new TV, every salesperson in your zip code will try to sell you a 3D TV. But 3D TVs can cost up to \$700 more than similar 2D-only models from the same vendor, not counting the \$150 glasses and the 3D Blu-ray player. Is 3D TV worth it? Here's what you should know before you buy.

What will you watch? Imagine this: You set up your brand-new 3D television in your living room, pull out the glasses, press the power button...and then what? The Depending on your cable provider, you may have two or three 3D channels. DirecTV has ESPN 3D, a channel for videos shot to demonstrate 3D capability, a 3D movie channel, and a 3D video-on-demand channel. Comcast whi carries only ESPN 3D and a special channel for events broadcast in 3D. Because 3D broadcasts are uncommon and 3D movies are scarce, your broadcast TV options are pretty slim.

3D Blu-ray movies are rare: Maybe you don't mind the paucity of broadcast 3D programming because you just want to watch *Avatar* or *Monsters vs. Aliens* over and over on your 3D Blu-ray player. Well, doing that may not be so easy, either. At least for now, 3D Blu-ray movies are sufficiently rare that TV manufacturers try to get them exclusively bundled with their "3D Starter Kits"—*Monsters vs. Aliens 3D*, for example, is available only as part of a Samsung pack that includes two pairs of Samsung 3D glasses for about \$300; and *Avatar 3D* will be a Panasonic exclusive for a while after its release.

The active-shutter glasses necessary for viewing 3D TV are pricey and inconvenient. They feel uncomfortable when worn for long, too.

3D glasses are a nuisance: The devices cost about \$150 apiece; they're heavier than regular glasses; and if you already wear corrective lenses, you'll have to put the 3D glasses over the normal glasses.

Within 10 minutes, you'll be acutely aware that something heavy, awkward, and uncomfortable is resting on the bridge of your nose.

3D just isn't that cool: Were you wowed the first time you ever watched a 3D movie in theaters? Great—but don't expect the same experience in your living room. Overall, today's 3D TV images look blurry, the active-shutter glasses make any other light sources in the room seem as though they're flickering, and more often than not the 3D effect takes the form of making the image appear to recede into the television (producing an effect kind of like a diorama) rather than pop out at you. The image may look somewhat different from the way it would on a 2D set, but it's not that impressive.





to stay—and they could make cutting your cable TV subscription a much more appealing option (see page 10). At this point, we're seeing Internet streaming services added to everything that plugs into your television, from Blu-ray players and game consoles to external set-top boxes that specialize in streaming video, like the Apple TV and the Roku XDS. As a result, if you find a cheaper set that

doesn't offer support for streaming Netflix, you can buy a Roku or an Xbox 360 and stream Netflix through that instead of shelling out several hundred dollars extra for a pricier TV.

REFRESH RATE: The refresh rate is a measure of how quickly a TV can refresh its on-screen image. Lower refresh rates typically make for choppier, blurrier motion, which is especially noticeable on LCD TVs during long, slow panning shots. Last year the industry focused its attention on the significant difference between 60Hz and 120Hz, with only a few 240Hz TVs in the mix. This year 120Hz is the norm and 240Hz is the highend alternative, but the overall difference in video quality between the two is not always immediately apparent. In fact, a 240Hz set sometimes produces odd glitches in the image that a 120Hz set doesn't. The bottom line: Don't rely on the numbers alone. See the set and decide for yourself.

Samsung UN40C7000

The 40-inch UN40C700 is a very thin and attractive set with smooth image panning and (for the most part) good picture quality, but it also suffers from oversaturated colors and oddly pulsating backgrounds and fine details.

LED-BACKLITLCDs: In early matchups between LCD and plasma HDTV screens, plasmas often looked better because they offered deeper, brighter colors than their LCD counterparts. As LCD manufacturers sought ways to solve the refresh rate/ motion blur problem, the brightness problem became more apparent—the technology used to drive a screen's refresh rate past 60Hz often made the

display even dimmer. Enter the LED-backlit LCD TV, which got rid of the fluorescent lamps that HDTV manufacturers formerly used to light displays in favor of light-emitting diodes that can produce a brighter, higher-contrast image while using less space and electricity. The end result: brighter, thinner, more-energy-efficient TVs. No wonder almost all of the big TV manufacturers have come out with several LEDbacklit LCDs. In fact, the HDTVs in our roundup include just one fluorescent-backlit LCD set and three plasma sets.

In the continuing competition to produce ever-slimmer televisions, some manufacturers have moved from backlit sets to "edge-lit" models. This means that the LEDs are positioned around the edges of the set, instead of being fully arrayed in the rear. A well-designed edge-lit display looks just as good as a backlit one, but several edge-lit models we



examined suffered from slight shadows and uneven lighting.

PLASMA TV LIMITATIONS: Plasma screens are less expensive to manufacture, and they look okay, but even plasma sets from veteran TV manufacturers like LG and Panasonic fall short in comparison to LCD screens. Stick to plasmas if you want a big TV at a relatively low price, but don't expect the set to deliver color or motion nearly as well as a good LCD would.

TWEAKING OPTIONS AND PRESETS: If you like to fine-tune your TV's image quality, you'll welcome the new tweaking options that recent HDTVs offer. Chief among the enhanced controls is ten-point white balance, which lets you adjust the red, green, and blue color values of your set to ten different levels of brightness, thereby ensuring that the colors balance properly across the brightness spectrum.

Of course, having more-precise controls means that calibrating your TV can take quite a lot longer, and there's more room for mistakes if you're trying to eyeball the adjustments. To help, some TV makers supply built-in THX-certified color presets or a 'THX Mode' that loads a configuration certified by THX technicians to meet a certain level of image quality. (THX is a cinema audio/video certification company responsible for, among other things, the chest-shaking crescendo you sometimes hear in movie theaters after the previews.)

3D TVs: As discussed on page 104, the glasses look dorky, the prices are high, and not a whole lot is available to watch yet, but 3D is unmistakably the new It feature for midrange and high-end HDTVs. Nevertheless, though *Cloudy With a Chance of Meatballs* in 3D makes for an interesting in-store demo, 3D TV hasn't matured enough to be worth the money yet. We have high hopes for improved 3D in the year to come, but the 3D TVs of 2010 simply fail to seal the deal.

40- to 42-Inch HDTVs

IMAGE QUALITY: Each model of television is a unique and special flower, with its own distinctive qualities—and nowhere is that phenomenon more noticeable than among HDTVs that fall in the 40- to 42-inch category. The top three sets on our chart earned equal overall performance scores for image quality, but they received those scores for very different reasons.

The Samsung UN40C7000 (\$1600) shows off the company's bold image-processing functions; however, that technology can be a double-edged sword. Though the Samsung set



40- to 42-Inch HDTVs

The top three sets had close overall marks but different strengths and weaknesses.

MODEL		Rating	Performance	Features and specifications
1	Samsung UN40C7000 \$1600 find.pcworld.com/70940 • Samsung's UN40C7000 is a solid, fu	VERY GOOD	Image quality: Very Good Features: Perfect Design: Very Good spite its high ranking it has some	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, two USB Refresh rate: 240Hz image-quality quirks.
2	Sony Bravia KDL-40HX800 51600 find.pcworld.com/70941 • The Sony Bravia KDL-40HX800 prov	VERY GOOD	Image quality: Very Good Features: Very Good Design: Very Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, one USB Refresh rate: 240Hz
3	Vizio XVT423SV si150 find.pcworld.com/70942 • The Vizio XVT423SV is by no means	VERY GOOD	Image quality: Very Good Features: Good Design: Very Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: five HDMI, three USB Refresh rate: 240Hz
4	LG 42LE5500 \$1250 find.pcworld.com/70943 • The 42LE5500 is rather expensive for	VERY GOOD	Image quality: Very Good Features: Fair Design: Very Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, two USB Refresh rate: 120Hz d touch buttons are undeniably cool.
5	Panasonic Viera TC-P42G25 s850 find.pcworld.com/70944 • Spend your money elsewhere, unles	VERY GOOD	Image quality: Very Good Features: Good Design: Very Good creen HDTV that's inexpensive for	Display type:plasma 1920-by-1080-pixel screen Inputs: three HDMI, two USB Refresh rate: 600Hz

CHART NOTES: Ratings are as of 10/14/10. Street prices are as of 10/20/10.

Your music never sounded so good.

QuietComfort[®] 15

Acoustic Noise Cancelling[®] headphones

Welcome to a better sounding world, where your music comes alive as never before. The QC®15 headphones are our best, with Bose® technologies that deliver sound more naturally than conventional headphones. And a significant improvement in the noise reduction helps you focus on each nuance of your music, as distractions fade into the background. Seth Porges reports in Popular Mechanics that "Compared to the competition...the QC15s are vastly superior." It's a difference you need to hear to believe. We're so sure you'll be delighted, we'll even pay to ship them to your door.

To learn more: 1-800-760-2749, ext. Q8053 Bose.com/headphones

©2010 Bose Corporation. Patent rights issued and/or pending. The distinctive design of the headphone oval ring is a trademark of Bose Corporation. Quote reprinted with permission.





often produces an excellent image, it's also more likely than competing sets to produce odd glitches. In scenes from *The Dark Knight* and *Mission: Impossible 3*, for example, we noticed that the floors of far-off office buildings appeared to shift and change position; and finely detailed patterns such as those on a man's tie would sometimes pulse as if they were animated GIFs. In addition, our panel of image-quality judges observed that the UN40C7000's colors were slightly oversaturated compared with those on the other HDTVs in the same category, especially in tests of the set's ability to upscale DVDs.

The Sony Bravia KDL-40HX800 (\$1600) doesn't attempt to improve the image as much as the Samsung does. Nevertheless, it achieved a high overall ranking by displaying consistently above-average scores in all of our tests. If you're looking for a set that doesn't make any mistakes, opt for the

KDL-40HX800 over the UN40C7000. For its part, the Vizio XVT423SV (\$1150) earned image scores on a par with both the Samsung and Sony sets on every measure except motion tests. That makes it a nice choice for value-minded consumers, considering that it's 2 inches larger than the Samsung and Sony, and yet costs about \$450 less.

The other 40- to 42-inch HDTVs that we tested couldn't hang with the top

quality, marred primarily by some light movement during a panning shot over a brick wall. Panasonic's Viera TC-P42G25 plasma (\$850) and Hitachi's UltraVision LE42S704 LCD (\$900), meanwhile, demonstrate that you get what you pay for. The Panasonic flunked every motion test: Brick walls seemed to vibrate, and panning shots suggested a seizure. The Hitachi, which missed our chart, received average scores in color and brightness tests but suffered from multiple motion problems.

three. The LG 42LE5500 (\$1250) delivered average image

FEATURES AND DESIGN: Aside from the Hitachi LE42S704, each of these HDTVs comes with a selection of Internet apps designed chiefly to feed your TV more content. Virtually all of the sets support Amazon Video On Demand, Netflix, Vudu, and YouTube, as well as access to Pandora, Picasa, Twitter,

> and a collection of mini-apps via Yahoo Widgets. Oddly, though Samsung makes an app store available for its connected TV applications, at this writing the store holds little more than a few paid games.

> The TVs' designs were a bit of a mixed bag. The LG, Samsung, and Sony models all had attractive designs, but our judges dinged the latter two for their awkward remote controls. The Vizio featured a cool Bluetooth remote with a slider



Samsung LN46C650

Though it lacks LED back-

delivers strong audio and

lighting, this 46-inch HDTV

video and excellent Internet

features. Its remarkably low

price enabled it to finish as

our Best Buy as well as the

top-ranked set in its category.

Windows. Life without Walls., CyberPower recommends Windows 7



marks of W/DIA Corporation or its subscheries in the Linited States and other countries. OpenPhoner PO2 use persu marke, Intel, Heal Loop, Intel Core, Intel Assoc, Intel Inside Loop, Intel Vier, Intel Viero, Harvani, Itaniam Inside, Perthura, marke of Intel Corporation in the U.S. and other countries. All proces are subject to change without markes or disigne tt[®] Windows[®] • www.microsoft.com/piracy/howtotell is not responsible for any two on philod and photometric errors. Convricts (\$2008 CyberPower Altabric).



LAB

46-to 47-Inch HDTVs

Samsung's LN46C650 is a cut above a strong field of contenders in this category

MODEL		Rating	Performance	Features and specifications
1	Samsung LN46C650 s1050 find.pcworld.com/70945 • Samsung's LN46C650 is a dream co	VERY GOOD	Image quality: Very Good Features: Good Design: Superior ed buyers seeking solid image qu	Display type: LCD 1920-by-1080-pixel screen Inputs: four HDMI, two USB Refresh rate: 240Hz ality and advanced features in an HDTV
2	Sony Bravia XBR-46HX909 \$3150 find.pcworld.com/70946 • Though this set represents a substa	***** VERY GOOD	Image quality: Very Good Features: Very Good Design: Very Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, one USB Refresh rate: 240Hz
3	LG Infinia 47LE8500 \$1800 find.peworld.com/70947	VERY GOOD	• Image quality: Very Good • Features: Fair • Design: Very Good	Display type: LCD (LED-backlit) Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, two USB Refresh rate: 240Hz the image quality isn't great for the price
4	Mitsubishi Unisen LT-46265 s2500 find.pcworld.com/70948 • The Unisen LT-46265 provides Wi-Fi	***** GOOD	• Image quality: Very Good • Features: Fair • Design: Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, one USB Refresh rate: 240Hz
5	Panasonic Viera TC-P48G25 \$1100 find.pcworld.com/70949	**** GOOD	• Image quality: Good • Features: Fair • Design: Very Good	Display type: plasma 1920-by-1080-pixel screen Inputs: three HDMI, two USB Refresh rate: 600Hz y, however, just doesn't measure up.

CHART NOTES: Ratings are as of 10/14/10. Street prices are as of 10/20/10.

keyboard (similar to a cell phone's), which is practically necessary if you intend to use the television's extensive Internet connectivity apps. The Sony model supports Qriocity, the company's in-house video rental service, giving users some extra options for (paid) on-demand movies.

If you want fine control over your TV's image, pick up the Samsung UN40C7000 or the LG 42LE5500. Both televisions are equipped with ten-point white balance, so you can tweak the picture to your heart's content. The Sony and the Vizio occupy the middle tier for tweaking options, while the Hitachi and the Panasonic offer rather anemic image options overall. The Panasonic does, however, have a THX Mode preset.

46- to 47-Inch HDTVs

IMAGE QUALITY: In this category, too, Samsung takes the top spot, with its 120Hz LCD LN46C650 (\$1050), a midrange set that outperforms rivals priced much higher. On paper, the LN46C650 (one of the best products of the year; see page 86) looks as though it shouldn't have been able to outscore the 240Hz, LED-backlit TVs we tested, but it did—unmistakably. True, it exhibited mild imperfections with motion in *The Dark* *Knight*, and skin colors occasionally looked somewhat oversaturated, but overall the set's performance in our motion, contrast, and backlighting tests was very impressive.

The Sony Bravia XBR-46HX909 (\$3150) and the Mitsubishi Unisen LT-46265 (\$2500) tie for second place on image quality, while the LG Infinia 47LE8500 (\$1800) falls only slightly behind them. The Sony delivered perhaps the most consistent image quality across the board, displaying reasonably good color and handling motion well, though it showed a little too much contrast in some scenes and botched skin tones in others. The Mitsubishi handled motion exceptionally well, but couldn't beat the Sony on color, contrast, or brightness. The LG HDTV posted roughly equal scores across the board but made a few mistakes in motion and details.

The Panasonic Viera TC-P46G25 (\$1100) and the Hitachi UltraVision LE46S704 (\$1300) struggled with every motion test. Despite the multitude of jaggies (one judge said that a diagonal panning shot was vibrating so much it could have been filmed in an earthquake), the nonranking Hitachi displayed passable color, brightness, and contrast. The Panasonic received the lowest image-quality marks across the board.





Going beyond today's PC standard to decrease power consumption, CO2 emissions, and energy costs with every use

SONAMU PC



Automatic Electricity Block Function

Patented built-in standby power control system automatically shuts off power to all connected peripheral devices, enabling the same effect as unplugging all peripherals.

Energy and Cost Savings

Tests show that should all desktop.PCs in the US be switched to the SONAMU G100, an estimated 22 billion kWh of energy can be saved annually, with up to 30 billion pounds of CO2 emission reduction. This significant decrease in energy expenditure and CO2 emissions will serve to effectively reduce long-term energy expenses as well.

· Environmentally Friendly Technology

By using the SONAMU PC, you too can take part in helping to provide cleaner and healthier lives not only for present day, but for future generations to come so our children can inherit a safe and healthy planet to thrive in.

· Quality Products with Purpose

At Moneual we are passionate about using expertise from what we do best –produce high quality entertainment units and PC Systems – and channeling it into a cause we care deeply about: the environment. The brand SONAMU is Korean for the Pine Tree, one of the most CO2 emission absorbing trees on the planet.





FEATURES AND DESIGN: At just over 1 inch
thick, the LG Infinia 47LE8500 is the sex-
iest HDTV of the bunch; and despite
being so remarkably slim, it keeps most
of its ports easily accessible. None of the
other sets had a particularly remarkable
physical design, aside from a few quirks
here and there: The Hitachi and Mitsu-
bishi TVs have a few ports that can be a
little tricky to access, and the Mitsubishi
doesn't swivel at all, which is unusual for a TV these days.Samsung
It isn't che
UN55C800
contrast, I
and audio
energy-eff
also come
media pla

As for image-tweaking options, the LG and the Samsung were the only two sets in this category to feature ten-point white balance. Both the LG and the Panasonic have a THX Mode, but the Panasonic wouldn't let us change the green levels at all, which made it difficult to calibrate.

Available streaming services and Internet options for this middle-tier category of HDTVs were much the same as for the 40- to 42-inch models: Amazon Video on Demand, Hulu Plus, Pandora, Picasa, Vudu, and YouTube are offered on most of the sets. Again, the LG television's options are relatively limited, and the Hitachi set lacks networking features altogether. The Mitsubishi HDTV comes with no Netflix support—a truly

Samsung UN55C8000

It isn't cheap, but the 55-inch UN55C8000 delivers superb contrast, brightness, color, and audio in a superslim, energy-efficient design. It also comes with an excellent media player and supports numerous media formats. staggering omission—but since you can access Netflix on several different set-top boxes and game consoles, you may not miss it too much on the TV itself.

50- to 55-Inch HDTVs

IMAGE QUALITY: With the UN55C8000 (\$2900), Samsung completes its hat trick, capturing the top spot in all three screen-size categories. The UN55C8000—

which also ranks as one of the best products of the year (page 86)—blew away the other 50- to 55-inch TVs in color, brightness, contrast, and skin tones. Despite getting penalized for some of the same image-processing quirks (such as animated ties and moving windows) that we saw elsewhere, this TV garnered the highest overall image-quality scores of any set we've tested in the past year. It may be pricey, but it's worth it.

Vizio's XVT553SV (\$1700) does give the Samsung a run for its money despite costing approximately \$1200 less. Though the Vizio never quite managed to match the Samsung on image quality, it earned high marks across the board, particularly for brightness, contrast, and color. Nipping at the Vizio's heels was the Sharp Aquos LC-52LE820UN (\$2000), thanks »



CamCard



CamScanner

.

Abc O CamDictionary

For details, please visit www.intsig.com



to impressive color and good motion handling; but this set's display was a bit dimmer and less detailed than the others'.

LG's Infinia 50PK950 (\$1500) and Sony's Bravia KDL-52NX800 (\$1900) trailed the other three HDTVs in this category by a fairly slim margin. The LG matched the Vizio in assessments of color fidelity but came up short in the remaining tests, especially those for motion and detail. Unfortunately, the LG's image texture was unusually grainy across all of our tests, too. Imagine watching TV through a subtle filter of translucent sandpaper, and you'll have an idea of the texture problem. The Sony won plaudits for its above-average color but didn't do as well with motion, contrast, or detail; and its edge-lit LED backlighting produced subtle localized shadows in certain areas near the bottom of the screen.

FEATURES AND DESIGN: Most of the televisions in this screen range looked very similar—big, black, and sleek. The silver sheep in this flock is the Samsung UN55C8000, which is far thinner than the others (just under 1 inch thick) and has the slick silvery look characteristic of the company's high-end TVs.

The LG and Samsung HDTVs share the tweak-friendliness

award. The LG Infinia 50PK950 comes with 20-point whitebalance controls, and the Samsung counters with 10-point white-balance controls (if you don't want to calibrate the LG set at each of the 20 points, you can skip every other point on the scale, for the equivalent of a 10-point white-balance TV). The LG also features a THX Mode in case you don't feel like spending several hours fine-tuning your HDTV's image.

Bizarrely, neither the Samsung nor the Sharp set includes Wi-Fi. If you've already invested this much money in a television, having to pay \$50 extra for Wi-Fi so you don't have to see a \$3 ethernet cable sticking out of your \$3000 HDTV is like having to shell out for power windows on a Porsche—it should be included in the sticker price.

We also had a few problems getting the Sony set's Internet video services working; ultimately, we called tech support to walk us through the process of manually updating the firmware via flash drive, which was a pain. We ran into other glitches with the Vizio set—as it turns out, you can plug whatever you want into one of its three USB ports, but the company won't be adding support for actually playing media from USB drives until a future firmware update arrives.



50-to 55-Inch HDTVs

At this screen size, the various contenders all deliver very strong image quality.

MODEL		Rating	Performance	Features and specifications
	Samsung UN55C8000 \$2900 find.pcworld.com/70950 • The Samsung UN55C8000 delivers of	VERY GOOD	Image quality: Superior Features: Very Good Design: Very Good dio, plus a ton of useful Internet :	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, two USB Refresh rate: 240Hz and media player features—for a hefty fe
2	Vizio XVT553SV s1700 find.pcworld.com/70951 • The Vizio XVT553SV provides solid in	VERY GOOD	• Image quality: Very Good • Features: Fair • Design: Very Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: five HDMI, three USB Refresh rate: 240Hz
3	LG Infinia 50PK950 \$1500 find.pcworld.com/70952	VERY GOOD	 Image quality: Very Good Features: Good Design: Very Good 	Display type: plasma 1920-by-1080-pixel screen Inputs: four HDMI, two USB Refresh rate: 600Hz consistently grainy image disappoints.
	Sony Bravia KDL-52NX800 \$1900 find.pcworld.com/70953	***** 600D	• Image quality: Very Good • Features: Fair • Design: Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, one USB Refresh rate: 240Hz ers from annoying design issues, though
5	Sharp Aquos LC-52LE820UN s2000 find.pcworld.com/70954 + Sharp's Aquos LC-52LE820UN offers	**** 600D	Image quality: Very Good Features: Unacceptable Design: Good	Display type: LCD (LED-backlit) 1920-by-1080-pixel screen Inputs: four HDMI, one USB Refresh rate: 600Hz

CHART NOTES: Ratings are as of 10/14/10. Street prices are as of 10/20/10.

ACWORE San Francisco

Expo: January 27-29 **Conference:** January 26-29 Moscone Center San Francisco, CA

originality

EBGUIUIEA SHOW SPECIALS photography = apps

originality

CREATIVITY ^{≣ cutting edge} :

inspiration

training

üoiteriqu

≣ Guiddous INSPIRATION

Register Now. Jse priority code: MWMAG1

www.macworldexpo.com/register



POWER INJECTED

Case color shown in Cobalt Blue exterior and Rootbeer interior



MAINGEAR SHIFT with Super Stock Options Pushes the Limits

Every MAINGEAR Super Stock upgrade is hand-picked and specifically tuned to push the award winning SHIFT desktop into top gear. Pow Injected with MAINGEAR's RedlineTM overclocked Intel[®] CoreTM i7 processor Extreme Edition up to 4.5GHz, NVIDIA[®] GeForce[®] GTX 480 graph cards in 3 way SLI[®], and MAINGEAR's LiquidX 2700 or 2900 Super Cooler package in our exclusive patent pending vertical heat dissipati chassis, you'll have one hell of a beast running silent, cool, and powerful. Throw in NVIDIA's 3D Vision bundle for the absolute best 3D gaming and entertainment experience. With nearly 200 car quality, hand painted color options, for both the interior and exterior of t chassis, the look will speak for itself. Experience the MAINGEAR difference with Super Stock Options.

Visit: WWW.MAINGEAR.COM/PCWORLD to learn more about the Super Stock options

MAINGEAR

Become a fan F facebook.com/maingear or follow us 唐 twitter.com/maingear

person of the second second

Update the Firmware on Your HDTV, Camera, Smartphone, PC, and More

BY LOYD CASE

THESE DAYS, home-theater gear, handheld devices, phones, and even appliances have embedded smarts in the form of a microprocessor, memory, and software. And like computer programs, firmware—the software that runs on your gadgets needs periodic updating.

Many new gadgets aren't 100 percent complete when you buy them: Some promised features may be absent or incomplete at that point. And older hardware may require software enhancements to gain new features.

As a result, manufacturers design much of their gear to allow updates. You won't get every great new feature via downloadable updates, but firmware revisions can make your old equipment run faster and crash less often.

Firmware is software code stored in persistent memory (usually either in flash memory or in programmable, rewritable read-only memory) that is built into the device. Unlike apps loaded into a PC's RAM, firmware doesn't get erased when the system powers down. Firmware may hold basic software needed to start up a system—like a Software updates aren't just for PCs any more. Here's how to fix bugs and add new features to your existing hardware with a few easy patches.



PC's BIOS—or it may store the entire operating system and application suites, as is the case with smartphones.

Should I Update?

Many PC and motherboard makers advise users not to upgrade a system's BIOS, for example, unless a problem arises or the user installs an unsupported CPU.

On the other hand, a Bluray player needs frequent updating, because new features on the discs may render them unplayable on old firmware. But before you rush out to update the firmware in a piece of electronic equipment, check the manufacturer's recommendation.

Let's start with a few simple, crucial rules of thumb.

Confirm that you have reliable power: For standard PCs and other electronics that you plug into a wall, power is no big deal. If you're worried, you can connect an uninterruptible power supply to the device before proceeding.

Plug in the hardware: Never rely on battery power when updating your laptop's BIOS or your phone's firmware.

Create a backup of your current firmware: Not all devices allow you to do this, but if you can, you should. If the new firmware introduces a bug, you may need to revert to an older version.

Log your changes: Some firmware updates reset your device's settings to their default values, so document any adjustments you may have made before updating. That way, you can restore them properly. If the device allows it, save 'off' settings to a file (this is common in routers, for example).

Warn other users before updating your router: If you're updating a network device, »

be sure to let all users know in advance that the network may go down briefly.

Now let's move on to the updating process itself.

PCs and Laptops

Today's PC firmware falls into two categories: the traditional BIOS (Basic Input-Output System), and the newer EFI (Extensible Firmware Interface). EFI is much more capable than the old 16-bit BIOS routines. On the Windows PC side, most systems still use BIOS, while servers generally use EFI. Recent Apple computers use EFI too, though earlier Intelbased Macs used a firmware architecture built around the SMC (system management controller).

Most current PCs let you update firmware through the BIOS setup screen. Copy the BIOS update file to a USB flash memory stick, and plug the USB stick into the system that you want to update. At startup, press the key that launches the BIOS update application. Alternatively, press a keyboard key (usually **<Delete**>, but sometimes another key such as **<F2>** or **<F10>**) to enter the BIOS setup program.

Navigate to the device that contains the firmware update: Select the file name and press **<Enter>** to launch the update process.

Updating the BIOS from an executable file is even easier. All Intel-built motherboards are updatable via a Windows-based app. Some other motherboard makers offer the same feature, in which case you download the BIOS update app and

	Blos Flash Update
Store 'n' Go Pro	
WDC WD1002FBYS-01A6B0	- Partition 1
WDC WD1002FBYS-01A6B0	- Partition 2
Optiarc DVD RW AD-7240S	- ATAPI
Refresh Media List	
Exit Flash Update Tool	

INTEL'S VERSION OF updating the BIOS from a flash memory key.

launch it from the desktop.

A few motherboard makers include apps for updating the BIOS over the Internet. Usually the site downloads the entire update before the updating process starts.

PCs with very old motherboards may require you to use a bootable floppy disk containing the BIOS update. The update may start as soon as you boot, or you may have to type a command at the command-line prompt; for details, print the readme file for the update before you boot from the floppy.

To update a Mac, download the firmware update for your system and launch it from the Finder. The update takes a few minutes, and uninterrupted power is crucial.

Network Routers and Peripherals

PC peripherals such as hard drives, network-attached storage, and high-end monitors may have updatable firmware. The instructions for installing updates vary, so pay attention to the manufacturer's documentation.

Wi-Fi routers are perhaps the easiest peripherals to update; most have the capability built into their router management interface. Here we will use the update screen from a Netgear WNDR3700.

The interface of the Netgear router identifies what the update may fix when installed, and it gives you the option of backing out if you don't think you need the update. Network-attached storage devices use a similar interface for firmware updates.

Monitors rarely need such updates, and most monitors don't even allow them.

We see more firmware updates for hard drives—and especially solid-state drives which can be tricky to install. Before making any changes to a critical storage device,

BELKI		Home (Help Logout
LAN Solup	Utilities > Firmware Update	
Directoren Las Tales Roce Internet WAN	From time to time. Belkin may release new Firmware updates contain improvements a	versions of the Router's firmware and lives to problems that may have existed
Concernant Prints	Click the link below to see if there is a new	a service as even and a service of the service of t
NAC Access	NOTE Please backup your current settings Click Here to go to the Save/Backup current	i béfole updating to a new version of firmwale. It settings page
and the second	Firmware >	1 00 18 (Mar 12 2010)
(12 Maryot e Spill Inc. Access	Check for New Firmware Version >	Check Femware
Play Features	Update Firmware >	Crocke File No Ne cricken
dati meneti Traffic Sociologi		Update

YOU CAN CHECK for router updates over the Internet via the router's interface, and apply an update only if you think you need it. back it up! In at least two instances I'm aware of, SSD firmware updates could result in permanent loss of the drives' data. The firmware updating process can be arcane, so study the documentation before proceeding.

As an example, updating an Intel X25-E solid-state drive involves downloading an ISO image, burning it to a CD, and then booting from the CD to install the firmware update. So you must be comfortable with burning the CD and booting from it before you get to the firmware update process.

Sometimes even expansion cards require firmware updates. I've had to update both graphics card firmware and network interface card firmware. In both instances, running the updates entailed working from a commandline prompt, but I did it all from within Windows.

One last rule of thumb: Whenever you update a system peripheral, you should reboot the peripheral after you install the update (assuming that the device does not restart automatically).

Home-Theater Gear

In the consumer electronics category, the two primary candidates for upgrades are Blu-ray players and HDTVs; but as other types of gear (such as A/V receivers) become networkable devices, vendors make firmware updates available for them, too.

Such updates sometimes even fix problems you might have assumed were just a quirk of your HDTV set.

You update most consumer electronics gear in one >>

Limited Availability

Less Than 400 290 Ounces of Tanzanite Remain in This Special Purchase.

2 carats of Genuine Tanzanite Save \$700!

African Gem Cutter Makes \$2,689,000 Mistake...Will You?

This story breaks my heart every time. Allegedly, just two years after the discovery of tanzanite in 1967, a Maasai tribesman knocked on the door of a gem cutter's office in Nairobi. The Maasai had brought along an enormous chunk of tanzanite and he was looking to sell. His asking price? Fifty dollars. But the gem cutter was suspicious and assumed that a stone so large could only be glass. The cutter told the tribesman, no thanks, and sent him on his way. Huge mistake. It turns out that the gem was genuine and would have easily dwarfed the world's largest cut tanzanite at the time. Based on common pricing, that "chunk" could have been worth close to \$3,000,000!

The tanzanite gem cutter missed his chance to hit the jeweler's jackpot...and make history. Would you have made the same mistake then? Will you make it today?

In the decades since its discovery, tanzanite has become one of the world's most coveted gemstones. Found in only one remote place on Earth (in Tanzania's Merelani Hills, in the shadow of Mount Kilimanjaro), the precious purple stone is 1,000 times rarer than diamonds. Luxury retailers have been quick to sound the alarm, warning that supplies of tanzanite will not last forever. And in this case, they're right. Once the last purple gem is pulled from the Earth, that's it. No more tanzanite. Most believe that we only have a few years supply left, which is why it's so amazing for us to offer this incredible price break. Some retailers along Fifth Avenue are more than happy to charge you outrageous prices for this rarity. Not Stauer. Staying true to our contrarian nature, we've decided to *lower the price of one of the world's rarest and most popular gemstones*. Our 2-Carat *Sunburst Tanzanite Ring* features marquise-cut gems set dramatically in gorgeous sterling silver. Each facet sparkles with the distinct violet-blue hue of the precious stones. Behind the shine you'll find that the exquisite silverwork of the setting calls to mind the detailed treasures being produced by Europe's finest jewelers. This is a ring designed to impress and it does not disappoint.

Now is the point where opportunity knocks. If you open that door today, you can own this spectacular ring for less than \$100. If you wait? We can't say for sure.

Your satisfaction is completely guaranteed. For our client-friendly approach, Stauer has earned a rare <u>A+ rating</u> from the Better Business Bureau, a rating we wish to keep. So, of course, your satisfaction is 100% guaranteed. If you are not completely aglow with the *Sunburst Tanzanite Ring*, send it back within 30 days for a prompt and courteous refund. But, please don't wait, our supply is dropping rapidly. IEWELRY SPECS:

- 2 ctw genuine tanzanite - .925 sterling silver setting - Ring sizes 5-10

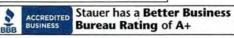
stauer.com

Sunburst Genuine Tanzanite Ring (2 ctw)—\$795 <u>Now</u> \$95 +S&P Save \$700

Call now to take advantage of this limited offer.



Promotional Code TZR187-01 Please mention this code when you call.



ALLEY 14101 Southcross Drive W., Dept. TZR187-01 Burnsville, Minnesota 55337

- Smart Luxuries—Surprising Prices

of the three following ways.

ISO file burned to CD: Some older Blu-ray players didn't have a network capability and lacked USB ports. To update them, users had to burn the downloaded firmware file to a CD and then install it via either a menu selection or a combination of remotecontrol button presses. Even some premium DVD players required this type of updating a few years ago.

Firmware copied to USB flash drive: This updating method is most common in situations where a network connection is unavailable or unreliable. I have updated several HDTVs in this way.

Firmware directly downloaded from the Internet: This is an increasingly prevalent method for updating firmware. For example, you can set up a Panasonic DMP-BD85 Bluray player to automatically inform you of new firmware updates, if you keep it connected to the Internet. The actual update screen is bur-

Others
Off Timer
Remote Control Code
Quick Start
Easy Setting
Restore Default Settings
DivX Registration
System Information
Firmware Update
• OK • RETURN

FINDING THE RIGHT menu item for installing a firmware update on the Panasonic DMP-BD85 Blu-ray player can be tricky because it's buried as an option in the Others submenu. ied in the menus inside the Others main menu selection, however, not in the Network menu selection.

Game Consoles

Updating the firmware on current-generation game consoles is simple—and nonvoluntary. For example, the Xbox 360 requires an always-on connection to the Internet to make most of its services available, though you can play single-player games without a connection. When the console detects a new system update, a dialog box warns you that you'll be logged off the network if you don't install it.

Smartphones

Mobile phone updates may include critical security fixes, performance enhancements, and new features.

To update your iPhone, plug it into your Mac or PC, and make sure iTunes is running. If a firmware update is available, click *Yes* when asked if you want to update.

For Windows Mobile devices, start by syncing (via USB) to back up your contact, calendar, and other phone data. Some models use ActiveSync for updating; others rely on a dedicated app. Read and follow all instructions carefully.

Update processes for Android phones vary widely. You can manually download and update the firmware, but waiting for your cellular network to roll out the update may make more sense. If you want to download and manually update the phone, start by downloading the latest version and copying it onto an SD card or to the phone's storage via USB. Depending on the phone, performing the update will involve pressing some combination of phone buttons.

BlackBerry owners looking for an update should go to RIM's BlackBerry Device Software page (find.pcworld. com/70882) and follow the inNintendo DS and Sony PSP update automatically over their network as needed, as long as you have Wi-Fi. You can update the devices wirelessly, but attaching them to wall power is preferable.

Digital cameras occasionally need firmware updates. In most cases, to update a camera's firmware, you



RIM'S BLACKBERRY DEVICE Software page provides detailed instructions for updating the firmware on BlackBerry phones.

structions there; Mac users must install the BlackBerry Desktop Software first.

Other Handheld Electronic Devices

Most off-the-shelf GPS devices come with free updates for a set period of time; after that, you may have to pay for each update.

You can download a Web browser plug-in to gauge whether your device needs an update (the GPS unit must be plugged into your PC via USB), or you can enter your device's serial number. If an update is available, you will download it as a very large file that is both a Windows app and mapping data. Attach your GPS unit via USB, run the app, and let it update your firmware.

Gaming devices like the

download the update, copy it to a flash memory card, and insert the card into the camera. Then you select an entry from the camera's built-in menu or press some combination of buttons to load the update. Usually, you'll have to copy the firmware file to the top level (root) of the memory card, not to a subfolder.

To update a media player like Apple's iPod or Microsoft's Zune, attach the player to your PC and run the relevant app (iTunes or Zune software). Updates occur almost automatically; click *Yes* if prompted to update.

Many other music players copy the downloaded firmware file to the device over a USB connection; you then disconnect it, and the update occurs automatically.

DISCOVER WHAT'S NE Use your mobile device to scan this code.

1

CAPTURE IMAGINATION AND MARKET SHARE.

With 2,500 exhibitors, attendees from more than 130 countries and 2,000 VCs and financial executives, the International CES® is the one event that links innovation and business on a global scale. Register with priority code M1 by 5 p.m. EST December 31 to save \$100 off the on-site registration fee. Exhibitors: Reach an international audience in one trip. Reserve space at Exhibit@CESweb.org. Register Now at CESweb.org | January 6-9, 2011 | Las Vegas, Nevada



PRODUCED BY

CEA.

THE GLOBAL STAGE FOR INNOVATIO

Eight Tips for Better Android Phone Photos

Capture stunning pictures despite the limitations of your cell phone's camera hardware and software.

THE CAMERA IN your Android phone likely packs at least 6 megapixels, but you still need a little know-how to produce attractive images with your photography.

This article offers Android camera phone tips for taking better shots at night, blurring backgrounds artistically, keeping subjects sharp, using timer apps, and more.

I shot the images for this article with a Motorola Droid X from Verizon; of course your phone may not have the same camera hardware and software features.

Your version of Android can be a huge factor, too. Depending on your phone hardware, the Froyo (Android 2.2) software update may unlock more manual controls that can help with advanced photography. Be sure to keep your phone updated, and poke around the in-camera settings to see what features are available.

Use the Flash for Daytime Details

Why use a flash during the day? In bright settings, your camera phone's flash isn't the main light source; instead, it serves as your secret weapon—a fill flash. The burst of light it provides diminishes sharp shadows and compensates for underexposure, which are common problems with photo-



CONSECUTIVE SHOTS TAKEN outdoors in broad daylight without a fill flash (left) and with a fill flash to make the scene's lighting more even.

graphs taken on sunny days.

Though the Droid X's flash isn't powerful enough to fill every shadow, activating the flash for daytime portraits improves exposure in blownout areas such as the subject's cheeks and forehead.

Camera phones are especially susceptible to setting exposure on the bright areas, which leads to overdarkened shadows. You can turn on the flash by toggling through the modes (On, Auto, and Off). The flash punches up details when you're within a few feet, so stay close to your subject.

Experiment with using the fill flash on backlit subjects, too. For example, avoid the cliché of a sunset photo featuring a bland, dark subject in front of the colorful sky. Fire the flash to light up the foreground, instead.

Adjust ISO Settings for Better Night Shots

I'm much more sparing with the flash at night. Harsh, flat light can blow out cameraphone images, and weaker flashes might not counteract this problem adequately.

So I prefer to use whatever moderate light is available, disable the flash, and ask subjects to hold still. You'll also have to hold the camera steady, and turn on the stabilizer in your phone's camera app settings (if available). Admittedly, parts of the image might blur anyway, but you still have other tools to improve night photos taken without the flash.

A camera phone's ISO setting mimics film speed on standard cameras; a higher number is supposed to be more sensitive to light. But in reality, cranking up the



TAP THE ISO setting to rein in an automatic setting that may be too high (causing noise) or too low (lacking sensitivity). ISO can cause your images to fill with noise—pixelated bits of color that don't belong where they appear. To find an ISO equivalent that yields good results, experiment with the setting on your camera phone; on the Droid X, look under *Settings*• *ISO equivalent sensitivity*. I like to turn it up manually to about 400 in dark situations.

Don't Use Digital Zoom

Your camera phone has fixed optics; it can't magnify the image—and zoom—by moving its lens. Instead, you have a digital zoom, which you should almost never use.

A digital zoom blows up the pixels instead of capturing finer details. You can produce the same effect on your PC with Photoshop or another image editor later. And that's what you should do; you can't un-digitalzoom a captured photo, but you can zoom in to an image later on your PC, cropping out unneeded edges.

Want to fill the frame? Walk closer to your subject. If you absolutely can't get closer, such as when you're taking a shot of a reclusive celebrity in the wild, I'd still recommend avoiding the digital zoom; instead, consider blowing up the area you want on your PC later.

Great Lighting Makes Great Photos

Even the cheapest camera phone can capture terrific pictures in ideal lighting. Since you won't be toting your own lights, pay attention to what's available as »



GRAB YOUR GEAR

TURPOLL

(intel) Faster. Smarter.

NZXT Pha

www.ibuypower.com

BUPPOWER

Image: State Stat	 Concernition Conce	 Intel[®] Genuia Gigaby NVIDI/ Direct NZXT Power 1TB Sr High D 	Warrior II-55 Core ^M i3-540 Processor he Windows' 7 Home Premium 64-Bit Edition tre HSSM-USB3 Motherboard A Geforce ^M GTX460 1GB Video Card - X11 Support Wickan Gaming Case + 700W Certified Support Yutan Gaming Case + 700W Certified Support A Hard Drive Densistant March 14 and Drive Densistant Densistant March 14 and Drive Densistant Densistant	
Toll Free: 888-462-3899	POWER		www.ibuvpower.com	

ZXT

Toll Free: 888-462-3899

THD.

Intel, the Intel logs, Intel Core and Core Inside are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. All content and prices are subject to change without notice.

you compose your shots.

In most cases, you'll want the light to be at your back. Reposition yourself or ask subjects to move if you are shooting into the sun.

Think about multiple light sources for the best photos. Studios often use a combination of three light sources a key light, a fill light, and a back light—to illuminate scenes. The key light is the brightest, coming from near the camera; meanwhile, a fill light is set off to the side to soften shadows, and a back light sits far to the side or behind the subject to add a sense of depth.

Follow similar conventions when you can. Maybe an indoor, afternoon shot could use windows as the key and fill lights, and a lamp as a back light. But avoid having bright light sources in the image, since the camera phone will end up setting exposure on that point.

Take Sharper Photos

Taking too many blurry photos? Either your camera is moving too much or your subject is. The former produces a picture that's completely blurred, while the latter creates a picture with some sharp elements but a blurred subject. Here's how to fix the problem.

To reduce camera movement, stay still when firing the lens. Hold the camera phone with both hands, and keep your elbows tucked in to the sides of your body for support. Press the shutter button, but make no other movements—such as lifting your finger—until you're sure the image has been taken. On the Droid X, I hold the shutter button down partway to set the focus; then I press it down the rest of the way to capture the shot. I don't lift my finger from the button until after the image is processed. Remove your finger early, and you might shake the camera.

If you are shooting with ample light, you can prevent subjects from blurring by increasing the shutter speed. In most cases—such as on the Droid X—you'll do this by selecting *Scenes*•*Sport*, since a camera phone typically doesn't include manual shutter-speed settings.

Use Blur to Draw Focus

Use camera-phone blur to your advantage, bringing attention to your subject while blurring the background. A short depth of field (the distance in focus) is the classic way people create such an effect.

You'll need ample light and an Android phone with manual exposure settings for the best results. Set the aperture as low as it can go in your camera app settings' manual mode. If you don't have that manual setting, try putting your camera phone in the Portrait auto-mode if available. (I picked Scenes-



TOGGLE TO THE Sport setting to increase the shutter speed.



THE PORTRAIT SETTING can help reduce the depth of field.

Portrait on the Droid X.) Regardless of how you choose to proceed, the effect will be more prominent if you position yourself within a few feet of your subject and stay far from the background.

Motion blur can create a different sort of feel, causing blur if either the subject or the camera moves. If they're moving together, however, only the background will blur. Try focusing on a friend as you walk together, keeping the subject in the same position in the frame.

Since the two of you are in roughly the same relative position, your friend will remain sharp but the background will blur. This effect works best in darker situations such as at dusk—when the camera has to extend its shutter speed. Alternatively, create a lot of background movement, for instance by shooting from a moving car.

Use Timer Apps

You can capture great photos with your Android phone's built-in camera app, but add-on apps can enable even more features. In choosing such an app, I looked past the filters and other gimmick apps to tools that add timer functions, which the default Droid X camera lacks.

Camera Zoom FX offers several effects, but right now you want the timer tool. For a group shot, prop up your phone where it can see everyone; then go to Quick Settings-Settings 3-Timer to enable the timer. Add the burst mode to take a series of shots at once; it's easier than walking back and forth to repeat. Just go to Quick Settings-Settings 3-Burst Mode.

Do Something Fresh

Many photos have an undesirable camera-phone look not because of inadequate hardware but because the photographer used a typical camera-phone angle: eye level, far from the subject. To get better photos, shoot from unique perspectives. Try getting down to kidheight to record children playing, or try capturing a



CAMERA ZOOM FX lets you set several timer options so that everyone stays in the picture.

group shot from a low angle after your team conquers a mountain. Most important, get close to your subject.

Experiment with all of these tips to get familiar with your Android camera phone. With a bit of practice, you can develop the technical and artistic skills to snap great photos in spite of the fixed, cheap lens. —Zack Stern





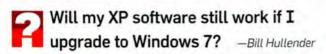
Call for a free PC Diagnosis Available 24/7 (800) 519-6304

Virus and Spyware Removal Troubleshoot System Errors Optimize a Slow Computer Establish a Home Network
 Connect With Wireless Devices
 Solve Printer Issues

2010 CyberDefender* Corp. All rights reserved.

www.CyberDefender.com

ANSWER LINE



ALMOST CERTAINLY. Most programs that work in Windows XP and Windows Vista will have no trouble in Windows 7, though there are a few exceptions, of course. To confirm that a particular program works in the new environment, look it up at the Windows 7 Compatibility Center (find.pcworld.com/70878). Once there, you can browse through program types or search by the program's name. Or visit the program's Website and see what it says on the matter.

If you discover that a program you want to keep and continue to use does have a problem, you have four options.

1. Run the program in XP Compatibility Mode. Right-click the program file or a shortcut to the program on the Start menu, and select *Properties*. Click the *Compatibility* tab. Check *Run this program in compatibility mode for* and select one of the XP options from the pull-down menu. Then hope it works.

Upgrade to a more recent version of the XP-compatible program, or replace it with a competitor's program.

Install Windows 7 on a separate partition so you can choose
 XP or Windows 7 when you boot up (see find.pcworld.com/70879).

4. If you're upgrading to Windows 7 Professional or Ultimate, download and install the Windows Virtual PC and Windows XP Mode (find.pcworld.com/70880). These applications will allow you, in effect, to run XP inside Windows 7.

There's one other issue to keep in mind: If you're moving from an older XP computer to a new Windows 7 one, you're probably also moving from a 32-bit version of Windows to a 64-bit version. (XP

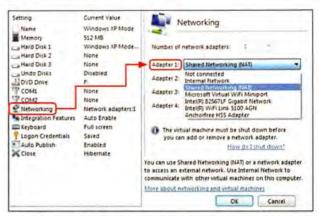


WINDOWS VIRTUAL PC lets you open older apps in Windows XP Mode with a single click from within your PC's Win 7 operating system.

and Windows 7 come in both flavors, but 64-bit is significantly more common now than it was when new PCs came with XP.) The 16-bit Windows programs from the early 1990s run just fine in 32-bit environments, but they don't work in 64-bit Windows. Consequently, some of your older apps may not work on the new computer.

-Lincoln Spector

ASK YOUR QUESTION AT FORUMS.PCWORLD.COM



IN THE SETTINGS for Windows XP Mode, choose 'Networking' in the left pane and select your network adapter (as 'Adapter 1') in the right.

Why can't Windows 7's XP Mode see other computers on my network? It can access the Internet. —RonE

WINDOWS 7'S XP Mode (part of the Windows Virtual PC) lets you run a separate version of XP inside the newer OS. The Virtual PC is a free but very large download (it contains a complete copy of XP) that works in the Professional and Ultimate editions of Windows 7.

If you have Windows 7 running nicely on your network, with access to the Internet, networked printers, and shared folders on other computers, XP Mode is likely to disappoint you initially. You'll probably get the Internet just fine, but not your local network. So you'll have to set up XP for the network separately.

First, however, you have to tell Windows 7 how XP should access the network. If you are currently running XP Mode, exit it before moving on to this step of the process.

In Windows 7, click *Start*, type **virtual**, select *Windows Virtual PC*, and press **<Enter>**. This opens a Windows Explorer window to the Virtual Machines folder. Right-click the Windows XP Mode file and select *Settings* (not 'Properties'—which is an easy mistake to make). In the left pane, select *Networking*. In the right pane, for Adapter 1, select your network adapter. Click *OK*.

When the dialog box is gone, load XP Mode. To do this from the same Explorer window, double-click the Windows XP Mode file.

In your virtual XP environment, select Start-Run, type netsetup and press <Enter>. Click Yes at the 'want to continue' dialog box.

In the resulting wizard, answer its questions as if your system were a stand-alone XP PC. Follow these tips as you do so:

I. Make sure that the Computer Name you enter differs from the one you use for the same PC's normal, Windows 7 environment.

Use the same Workgroup name that the other network PCs use.
 Turn on file and printer sharing.

If the PC still can't access the network, you likely have other network problems. See find.pcworld.com/70881 for additional advice.

-Lincoln Spector

THE ULTIMATE IN PHOTO SHOPPING: adorama.com



Cation /545 SONY 2 Nikon 1 PENTAX CO Panasonic On





Force a Stubborn System Clock to Remain in Your Time Zone

THIS MONTH WE look at how to straighten out a laptop clock that always wakes up late (or early); how to select a new user-account picture in Windows XP, Vista, or 7; and how to get your hands on a hotfix designed to correct random system lockups in Windows 7.

Fix a Computer Clock That Forgets the Time

Reader Dan loves his Asus netbook—but not its clock. Every time he turns the machine off, it seems to lose a couple of hours, even though the minutes remain accurate.

A computer can fail to keep good time for a number of reasons. It could be the result of Windows failing to connect to its timesync server, or it could be due to a dead CMOS battery.

In this case, however, it's something much simpler: Dan's netbook is set to the wrong time zone. Readjusting the clock fixes the problem for his current session, but every time he reboots, the clock automatically readjusts itself based on the time-zone setting.

Fortunately, this is a super-easy problem to fix:

 Right-click the clock in the System Tray (bottom-right corner) and click Adjust date/time.

2. In the 'Date and Time' tab of the resulting dialog box, click *Change time zone*. Choose the proper time zone for your location.

3. Click OK, then click OK again.

That should do the trick, Dan!

Date and Time Additional Clocks

Additional clocks can display the time in other time zones. You can view them by clicking on or hovering over the taskbar clock.

Show this clock

Select time zone:

(UTC-08:00) Pacific Time (US & Canada) =

Enter display name:

Clock1

CHANGING THE APPROPRIATE setting in Windows' Time Zone Settings box cures your system of displaying the wrong time at startup.

Change Your Windows User-Account Picture

When you click the Start menu (or visit the Windows log-on screen), you see an arbitrary thumbnail image of a flower, a soccer ball, a rubber ducky, or one of a handful of other stock Windows images.

Though you don't get many choices when you initially set up your PC (and in some cases you don't get a choice at all), you can easily change the image that's assigned to your user account. Here's how (in Windows 7; the procedure may vary slightly in earlier versions):

1. Open the Control Panel and choose User Accounts. (Windows

Also: Replace your assigned user-account image; and put an end to random system freezes that are driving you to distraction in Windows 7.



IF YOU DON'T like the thumbnail images that Windows' User Accounts offers in its first group of options, click 'Browse for more pictures'.

Vista and 7 users can follow an alternative route to User Accounts if they like: Click *Start*, type **User Accounts**, and press **<Enter>**.)

2. Click Change your picture.

3. If you don't want any of the available thumbnails, click *Browse for more pictures*.

 Navigate to the desired folder and choose the BMP, GIF, JPEG, or PNG image you want.

That's all there is to it. Now you can customize Windows to be just a little more the way you want it.

Fix a Windows System That Randomly Freezes

Of all the hassles that can plague a PC user (and trust me, there are many), few are as infuriating as random lockups.

There you are, typing along, when suddenly everything freezes. No error message, no blue screen, just a locked-up system. Argh.

If you're a Windows 7 (or Windows Server 2008 R2) user, you may be in luck: Microsoft recently issued a hotfix for systems that stop responding randomly.

What causes the problem? Microsoft says it's "a deadlock condition between the Lsass.exe process, the Redirected Drive Buffering Subsystem (Rdbss.sys) driver, and the Winsock kernel." Well, duh! That was going to be my first guess.

The hotfix is available for both 32- and 64-bit versions of Windows 7. (Fun fact: you'll often see these versions represented as "x86" and "x64," respectively.) To get it, click *View and request hotfix downloads*, accept Microsoft's terms, choose the hotfix compatible with your system, and provide your e-mail address.

Click Request hotfix and then check your inbox for an e-mail containing a link to the download. (I'm not sure why Microsoft makes you jump through these hoops, but, then again, I'm not sure why Microsoft does half the things it does.)

If you've encountered a random-lockup problem recently, let me know whether this hotfix fixes it.

Brazil Expedition Uncovers Thousands of Carats of Exquisite Natural Emeralds

Brandish a whopping 50 carats of genuine South American emeralds in a bandcrafted new necklace design for less than \$200..... and get a \$100 Stauer Gift Coupon!

Alfway into our ambitious trek through the rain forest I had to remind myself that "Nothing good comes easy." These days it seems that every business trip to Brazil includes a sweltering hike through overgrown jungles, around cascading waterfalls and down steep rock cliffs. But our gem broker insisted it was worth the trouble. To tell you the truth, for the dazzling emeralds he delivered, I'd gladly go back to stomping through jaguar country.

Now our good fortune is your great reward. Don't miss this rare opportunity to own an impressive 50 carat strand of genuine South American emeralds for under \$200. And for a limited time, we'll sweeten every necklace order with a **\$100 Stauer Gift Coupon!**

Faced with this embarrassment of riches, our designer transformed this spectacular cache of large stones (each is over 8 carats average weight) into a stunning 50 ctw necklace of faceted emeralds set into .925 sterling silver. Each emerald is surrounded by delicate sterling silver rope work and filigree in the Bali-style. The 18" necklace dangles from a sterling silver chain that fastens with a secure double-sided shepherd's hook clasp.

What is the source of our emerald's timeless appeal?

The enchanting color of the Stauer *Carnaval* Faceted Emerald Necklace comes from nature's chemistry. Our polished and faceted, well-formed natural emeralds are immediately recognized as something special. Indeed, when we evaluated these emeralds, color was the most important quality factor. Today, scientists tell us that the human eye is more sensitive to the color green than to any other. Perhaps that is why green is so soothing to the eye, and why the color green complements every other color in your wardrobe.

Emeralds are, by weight, the most valuable gemstone in the world.

Now you can wear genuine emeralds and feel great about knowing that you were able to treat yourself to precious gems without paying a precious price. A 100+ carat emerald necklace found on Rodeo Drive or 5th Avenue could cost well over \$250,000...but not from Stauer. Wear and admire the exquisite Stauer *Carnaval* Faceted Emerald Necklace for 30 days. <u>Special Offer</u> Receive a \$100 Stauer Gift Coupon with the purchase of this necklace. Yes, You read that right.

"You will rarely find an emerald necklace with 50 carats and certainly not at this price!"

— JAMES T. FENT, Stauer GIA Graduate Gemologist

If for any reason you are not dancing the Samba with pure satisfaction after receiving your faceted emerald necklace, simply return it to us for a full refund of the purchase price. But we're confident that when you examine this stunning jewelry, you'll be reminded of the raw beauty of the Amazon rain forests mixed with the flash and dazzle of the exotic Carnaval in Rio de Janeiro. Call Today. This cache of genuine emeralds is extremely limited.

A. Carnaval Necklace (50 ctw) \$195 +S&P B. Carnaval Ring (13 ctw) \$125 +S&P C. Carnaval Earrings (20 ctw) \$125 +S&P D. Carnaval Bracelet (50 ctw) \$175 +S&P Carnaval Collection (83 ctw) \$445 Includes necklace, ring and earrings. Now only \$295 +S&P Save \$150! *Special Offer—Receive a \$100 Stauer Gift Coupon with the purchase of each individual Carnaval. 1-8888-306-7179 Promotional Code FEN341-02 Please mention this code when you call.

Stauer Stauer Stauer Stauer.com 50 ctw of genuine emeralds. Enlarged to show details.







Smart Luxuries—Surprising Prices

PCW Marketplace





We can save it! Want proof? www.drivesavers.com 800.440.1904

Shown: Ruby Velour Lounge Set

HER this Christmas!



Choose from hundreds of great styles. Each PajamaGram comes with lavender bath confetti, a gift card, and a do not disturb sign, delivered in a beautiful hatbox. ALL FREE!

It's a gift you'll both love! 1.800.GIVE.PJS PajamaGram.com

SWAY COUPLE

An excuse to get cozy with her over the holidays.

www.sumolounge.com

CLEAN-ROOM DATA RECOVERY FAST. RELIABLE. SECURE.

- RAID/HDDs/Tape •
- DOD-Level Security •
- Affordable, Up-front Pricing (no hidden charges)
 - High Recovery Success •
- Class-100 Clean Room Lab Standards •
- **Complete Computer Forensic Services** •
- Downloadable Data Recovery Software •

datarecovery.com ess data recovery labs 800.237.4200

USA: 110 N. Research Drive, Edwardsville, Illinois | 1241 Quarry Lane, Pleasanton, California 6043 Hudson Road, Woodbury, Minnesota CANADA: 7300 Warden Ave., Toronto, Ontario

PHONE: 415/243-0500

FAX: 415/442-1891

E-MAIL: letters@pcworld.com

WEB: www.pcwarld.com

MAIL PC World Editorial 501 Second St. #600 San Francisco, CA 94107



PRESIDENT, CEO Mike Kisseberth SENIOR EXECUTIVE ADMINISTRATOR Caroline Ward

ADVERTISING SALES

SENTOR VP. SALES & MARKETING Stacey Levy (415/978-3255) DIRECTOR OF SALES Gabe Rogol (415/974-7373) EAST

ACCOUNT DIRECTORS Amy Singer (201/634-2317) Kathy Rebello (508/820-0440) ACCOUNT EXECUTIVE

Paul Moretti (415/243-3575) SALES ASSOCIATE Shari Redan (207/899-2099)

SOUTHWEST ACCOUNT DIRECTOR Cindy Hamilton (949/442-4005) SENIOR ACCOUNT EXECUTIVE

Duane Hampson (415/978-3133) SALES ASSOCIATE Chrissy Schneider (415/978-3269)

NORTHWEST ACCOUNT DIRECTORS Elaine Ebner (415/267-4578) David White (415/243-3664)

ACCOUNT EXECUTIVE Carol Johnstone (415/978-3390) SALES ASSOCIATE Nelson Hong (415/978-3266)

MARKETING MARKETING MANAGER

Jim Hopkins MARKETING INTERN Kelly Winterhalter

PC WORLD REPRINTS permissions@pcworld.com

PRODUCT DEVELOPMENT

SENIOR DIRECTOR, PRODUCT DEVELOPMENT Brian Buizer PROJECT MANAGER, SALES Leilani Lopez SALES ASSOCIATES Shari Redan, Chrissy Schneider, Nelson Hong

PCWORLD.COM AD

DIRECTOR, AD OPERATIONS Kevin Barden AD OPERATIONS SPECIALIST Keri Campbell

AD OPERATIONS COORDINATOR Lauren Martinell

PCWORLD | MACWORLD CONTENT WORKS

CONTENT DIRECTOR Ted Greenwald

CONSUMER MARKETING

PROCIRC, SUBSCRIPTION MANAGEMENT Shawne Burke Pecar PROCIRC, SUBSCRIPTION MANAGEMENT Megan Guard PROCIRC, RETAIL SOLUTIONS

PRODUCTION

DIRECTOR, PRODUCTION Nancy Jonathans PREPRESS MANAGER Tamara Gargus PRODUCTION SPECIALIST Jerry Wandel

Mark Peterson, Scott Hill

ONLINE MANAGEMENT EXECUTIVE VP/GENERAL MANAGER. **ONLINE** Stephan Scherzer VP, BUSINESS DEVELOPMENT Ulla McGee SENIOR DIRECTOR, AUDIENCE DEVELOPMENT & ANALYTICS Alexa Wriggins DIRECTOR, PROGRAM MANAGEMENT David Lake PRODUCT MANAGER, MOBILE Jacky Lee SENIOR MANAGER, AUDIENCE DEVELOPMENT DW Malouf NEWSLETTER SERVICES MANAGER Michael E. England RESEARCH MANAGER Miguel Beteta Rodrigo RESEARCH ANALYST Kyle Flick E-COMMERCE MANAGER Alisha Billingsley SOCIAL MEDIA COORDINATOR Toni Panayotov

WEB DESIGN

SENIOR MANAGER, USER EXPERIENCE Sky Collins SENIOR USER INTERFACE DESIGNER Johnathan Andersen INTERACTIVE DESIGNER Eliza Wee SENIOR VIDEO PRODUCER Chris Manners

TECHNOLOGY

CHIEF TECHNOLOGY OFFICER Aaron Jones SENIOR DIRECTOR, IT & WEB OPERATIONS Sean Greathouse IT MANAGER Walter Clegg SYSTEMS ANALYST Eileen Quan IT TECHNICIAN Dan Dudziak

SENIOR SYSTEM/NETWORKS ADMINISTRATOR Wil Schultz

SENIOR WEB OPERATIONS ADMINISTRATOR Andrew Trice

DIRECTOR, SOFTWARE DEVELOPMENT Jim Hutson

SOFTWARE DEVELOPMENT MANAGER Kieran Fitzpatrick SENIOR SOFTWARE DEVELOPERS

Wei Ming Xu, Bill Cappel, Alexis Barrera, Justin Counts, James Motch, Christian McKeegan

OA & RELEASE MANAGER Bhramara Thallapragada

HUMAN RESOURCES

VP. HUMAN RESOURCES Kate Coldwell HUMAN RESOURCES REPRESENTATIVE Ellen Cobb

FINANCE

SENIOR VP. COO/CFO Vick Peilen DIRECTOR, FINANCE Diane Ryczek DIRECTOR, ACCOUNTING Michelle Reyes

DIRECTOR, FINANCIAL AD **OPERATIONS** Diane Hacker DIRECTOR, ADVERTISING ACCOUNT **SERVICES** Kevin Greene STAFF ACCOUNTANT Scott Lum-Duenas ACCOUNTING ASSISTANT Jose Rodas

Volume 28, number 12, PC World" (ISSN 0737-8939) is published monthly at \$24.95 for TIDMAL DATA CALOUP by PC World Communications, Inc. 501 Second Street #600, San Francisco, C494107. Foreign orders must be prepaid in U.S. funds with additional postage. Add S12 per year for Canada: add S30 per year for airmail for all other countries. Canadian GST Registration #R124669680, Periodicals Postage Paid at San Francisco, California, and at additional mailing offices. Canada Post Publications Mail Agreement #40612508, Return undeliverable Canadian addresses to: Bleuchip Intl., P. O. Box 25542, London, ON N6C 682, POSTMASTER: Send address changes to PC World, Subscription Dept. P.O. Box 37571. Boone. IA \$0037-0571. Editorial and business offices 501 Second St #600, San Francisco, CA 94107, 415/243-0500. Copyright © 2009. PC World Communications. Inc. All rights reserved. The trademark PC World is owned by International Data Group and used under license by PC World Communications, Inc. Technology Advice You Can Trust", PC World Top 10", PC World Top 100", PC World World Communications, Inc. Printed in the United States-

ADVERTISER'S INDEX

Type find.pcworld.com/ plus the five digit number below, to go directly to any advertiser in this list.

Advertiser Page Find	l-lt#
1&1 Internet Inc. 165	70577
Acer America Corp. 33	70579
A-Data 99	70578
Adorama I 127	70542
American Express I 31	70580
APC 57	70569
B&W Group 59	70543
BluePoint 71	70505
Bose Bl	70581
Bose 107	70539
Buffalo Technology 55	70582
Canon USA (12-13, 15	70575
CDW 28	70583
CMS Products, Inc. 153	70550
Comodo 164	70551
Crucial Technology 183	70584
CyberDefender 125	70585
CyberPower Inc. 109	70586
DSolution 6	70574
Eset (NOD32) 45	70587
Fujitsu America 19	70588
G7 Productivity Sys 66	70552
BM13	70589
BMIST	70590
BMICI	70591
BuyPower 1123	70592
Intsig Information 113	70608
Prolog, Inc. 161	70553
RIS Inc. 120	70593
Kaspersky Lab 17, 19, 21, 100	70594
KVC Hosting 126	70554
Ligatt Security 79	70544

Advertiser Page Find	lt#
MAINGEAR 115	70545
Microsoft Office 25	70567
Microsoft Office 27	70566
Miller Legal I 8	70546
Moneual Lab 111	70573
Newegg.com 93	70551
OCZ Technology 191	70597
Patriot Memory 73	70572
Patriot Memory 100	70559
PC Tools 18	70562
Phiaton 69	70607
QNAP 152	70555
Qwest 43	70590
Retina-X Studios 102	70568
Rocky MTN Ventures. 198	70550
Rosetta Stone I 70	70547
Samsung Americas 4	70600
Samsung Americas 22	70601
Samsung Americas I C4	70599
Siber System, Inc. 185	70564
Siber System. Inc. 197	78563
SpectorSoft Corp 167	70502
Sprint 2	70557
Stauer 119	70548
Stauer 129	70549
The Neat Company Inc 195	70570
Trend Micro I C2	70565
TRENDnet 63	70503
USB Implementers Forum I	4970571
Western Gov. Univ. 168	70560
Wondershare Software 60	7055R

STATEMENT OF OWNERSHIP MANAGEMENT, AND CIRCLEATENE 1. PC World 2. Police ton No. 07:393-39. The of foling. September 27, 20161 how Enegancy, Monthy 5. Nonher of issues pdilobed anomaly: 12. h. Annud sitis-pupties proce 52:697. Complex multips of Policy Benefactor 12. https://www.complex.com/policy/article/policy/arti

The Back Page

FROM OUR READERS

CADEGIO	<u>urworld</u> •	Advanced Search (Search Tips	
pend an addition	\$9,999,998.37 o qualif	y for free ship	ping on your (order.
A	Your Shopping Cart			_
Adapters	· · · · · · · · · · · · · · · · · · ·			
Analog Consumer Telephone Product	1 Spand an addition (1 \$9,999,998.3)	a quality for free ship	oping on your order.	
Audio Conferencing Installed Voice	4			
Audie Conferencing Table Top	Cart Items	Qty	Item Price	Item
Audio Video Cables	× Black Wall Mount Ships in 24 -72 hours	2	\$1.63	
	and a set of the second	Remark		
Bulk Cable			Items	
Bulk Cable Cable Ties				

The Cost of Free Shipping

For a little under \$10 million, reader James Jameison could have avoided those pesky shipping charges. And to think, he was so close!

Adobe Reader	
0	

Should I Press OK? 1

Rich Ackerman's new iPod Touch came with a user manual in a PDF file. When Ackerman launched it, however, the resulting Adobe Reader dialog box yielded more questions than answers.

e bet you ward to remove fram your compart	n		6.4.
	C.e. MA		
		and the second se	_
			-
this installation pack		stad by your a	unto
uns installauon packa	sge is not suppo	ried by your s	yste
			T
		1	
ne and Student 2007	Microsoft Corporation	12.0.6425.1000	
Adda 1.5	Mcrosoft Corporation	2.0.4024.1	
	et Card Cryptographic Service Provider Pack ion Client Pack 1.0 for Windows XP in Encoder 3	rt Card Chybrogrephic Service Provider Package Microsoft Corporation ion Elent Pack 1.0 for Windows XP Microsoft Corporation Introder 3 Microsoft Corporation	Ion Clent Pack 1.0 for Weadows XP Microsoft Corporation 1 In Encoder 3 Microsoft Corporation 3.0.1332.0

No Habla Microsoft Steven Wallace wanted to clear out disk space by deleting some unused programs. It never occurred to him that Microsoft Office's installation package didn't support English.

Plugged In

Want to see more Plugged In? Follow us on Twitter (@PCWPluggedIn).



On the Small Screen

The Social Network, aka the Facebook movie, is a surprise hit. We've now started working on a script based on Twitter-140 characters at a time.

1	C	3
	1	2

Off the Beaten Track

Google Street View extends its reach into Antarctica. Already three penguins have complained about an invasion of privacy.



Game On A huge Tetris game on display in a Madrid plaza lets two

people control the action with their bodies. The event was preceded by the traditional Running of the Blocks.



I Remember Ewe

Facebook now lets you download and save your status updates. Finally, a way to

hang onto those precious FarmVille memories forever.

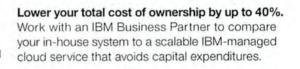


Net Newbies A recent survey shows that 92 percent of kids in the United States have an "online presence" by age two. Our proposed new acronym: LMDO, for "laughing my diaper off." • -IR Raphael and Steve Fox

Have an idea for The Back Page? Send us your suggestions at TheBackPage@pcworld.com. We'll print our favorites here and on our Facebook page at www.facebook.com/PCWorld.

How midsize businesses can get ahead by backing up.

As the engines of a Smarter Planet, midsize companies are faced with exponential data growth in their business operations. Losing information isn't an option. Yet with tighter budgets and fewer resources, midsize companies find it difficult to maintain a reliable in-house data backup and recovery system. That's why IBM and its Business Partners are using the power of the cloud to offer enterprise-level data protection designed to reduce your risk and meet your budget. Introducing cloud-based backup from IBM. A smarter infrastructure should help ensure that your data is continuously backed up in one of IBM's 150 data centers worldwide — so the moment files are saved, they're protected. Anywhere. Anytime, Just go on with your business, and IBM will take care of the rest. Here's how it works:



Enjoy security-rich, automated backup. Data is backed up the moment files are saved.

Get what you need, when you need it. In the cloud, your data is readily available so you can make smarter business decisions and increase productivity.

Free up valuable resources. 95% of your savings are derived from focusing IT staff on more strategic initiatives instead of routine maintenance, as well as reducing backup hardware, software, and tape media.

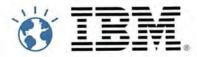
IBM Information Protection Services managed backup cloud is designed and priced with midsize companies in mind. Services start at

52.95 per 5 GB seat per month.

Try cloud-based backup from IBM free for 60 days.

Midsize businesses are the engines of a Smarter Planet.

To learn more about services like Information Protection, connect with a Business Partner, or get set up now, call **1-877-IBM-ACCESS** or visit **ibm.com**/engines/informationprotection



Prices subject to change and selds in the U.S. only. Actual costs will vary depending on individual outcomer configurations and environment IBM togit bor com, Smartar Planet and the planet icon are trademarks of International Business Machines Corp. registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other openpanes. A current last of IBM trademarks is available on the Web at wowlencomelegatiopytradect trill O International Business Machines Corporation 2010.

Innovation #1,574 40% More Efficient LED-Backlit Monitors

Greater impact. Smaller footprint.

As a world leader in R&D Samsung develops groundbreaking products that deliver bottom-line results. Products like our eco-friendly PX2370 LED-backlit monitors that consume 40% less power than conventional CCFL monitors. Go green and reduce costs in style with our complete line of innovative LED products and experience more vivid displays and longer product lifespans. Because at Samsung, it's not just business. It's business, innovated.

Discover our future-forward line of LED products at samsung.com/proLED.











ED.Backlit M

© 2010 Samsung Electronics America, Inc, All rights reserved. Samsung is a registered trademark of Samsung Electronics Co., Ltd. All products and brand names are trademarks or registered trademarks of their respective companies. Screen images simulated.