

ATPM

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About This Particular Macintosh: About the **personal** computing experience™

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Welcome

by Robert Paul Leitao, rleitao@atpm.com

Welcome to the May issue of *About This Particular Macintosh!* Apple has done it again! What you ask? The new iTunes music service? Yes. But more on the new music service a bit later. We're talking about releasing new products at the end of the month and on the same day as our publication deadline. Let's call this the most timely May issue in ATPM history!



© Grant Osborne

iTunes, iPods, and International Ire

That's right. On April 28th Apple announced the iTunes Music Store. The stores requires a half dozen or so things:

1. A Mac with Mac OS X 10.1.5 or later

2. A credit card
3. iTunes 4
4. QuickTime 6.2 (recommended)
5. Broadband Internet access
6. Residency in the USA

OK, really only five things. But try the new service on dialup at your own risk. The 30-second song demos on dialup take about 20 minutes to play (not really that long, but they *do* take awhile). For the lucky millions who do have the recommended equipment and meet the all-important residency requirement, there are now 200,000 songs available for download at a cost of only \$.99 each.

Of course many of the most vocal Mac users to comment on the service (or lack thereof) live overseas where the iTunes Music Store has yet to open its digital doors. This has raised the ire of Apple's international user community more quickly than US users can download a couple dollars' worth of songs.

Accompanying the new music service are new iPods boasting larger drives, smaller forms, and better buttons. The new 30 GB iPod can hold up to 7,500 songs. For the penultimate Mac user digital music experience the cost is only \$7,924 (\$7,425 for 7,500 songs at \$.99 each and \$499.00 for the 30 GB iPod). Most users might get by with a less expensive iPod and perhaps a few thousand fewer songs in AAC format. For people not familiar with the new AAC format, it's richer than MP3, provides for easier anti-piracy protection, and gives a new reason for people to buy a Mac for their music pleasure. At least that's Apple's plan; let's see how consumers respond.

Bottom Line It, Baby

At \$.99 per song (Apple will reportedly keep on average \$.34 from each song purchase with the balance remitted to the music labels), it will take millions of song downloads for the new music service to appreciably impact Apple's earnings. It's still hardware sales that drive Apple's revenue.

In April Apple announced a net profit of \$.04 per share for the three months ended March 29, 2003. Apple's second fiscal quarter is traditionally the company's weakest for sales and earnings. During the quarter Apple shipped 711,000 Macintosh units of which more than 40% of were laptops. Due to late shipments of the new 17" PowerBooks, Apple ended the quarter with about 4.5 weeks of channel inventory. Apple's channel inventory level is

among the lowest in the PC industry. This was good news for Apple but a lesson in patience for buyers waiting on delivery of what some call the “TowerBook” because of its size.

Apple ended the quarter with more than \$4.5 billion in cash and equivalents. Despite the somewhat tepid earnings report, Apple has increased its cash holding by about \$190 million since the beginning of the fiscal year. Apple ended yet another quarter with big cash, small market share, and an anxious Mac community speculating about even more products to come. This might lead a Mac user to say...

So What Else is New?

We’re glad you asked! Final Cut Pro 4 will soon be released, and the ubiquitous iBook received a speed bump and larger hard drive. For digital artists and engineers, the forthcoming Shake 3 has new features and unlimited licenses for distributing work over multiple Macs. For those of us with only \$.99 songs available for purchase with our limited technology budgets, Safari Public Beta 2 is available for free download on the Apple site and via Mac OS X’s software update service. There’s more news and information about Mac-related products inside this issue.

The ATPM Staff

Our May issue includes:

The Candy Apple: This Month’s Candy Apple Is Golden (the Golden Rule, That Is)

Ellyn explains why we should pay for what we use.

Report: National Association of Broadcasters Convention 2003

Lee Bennett gets indoctrinated to the NAB experience and describes what it was like.

Interview: Jonathan Gales

Lee Bennett sits down to chat with Jonathan Gales about his latest endeavor: MobileTracker.net.

What's Under The Hood: Got Vinyl? Converting LPs to CDs—Part 3

Robert C. Lewis concludes his series on converting LPs to CDs by discussing how to split recordings into tracks and then burn them to CD.

How To: Mac OS X's Acrobat Moves

New ATPM writer Matthew Coates likes PDFs. He discusses the Acrobat-like features built into Mac OS X and then shows how to use Adobe's Web site to create PDFs from many different types of files. You don't have to buy Distiller!

Cartoon: Cortland

This month's *Cortland* pokes fun at consultants. Who do they really serve?

Desktop Pictures: Flowers—Part 3

Jens Grabenstein travelled to California and brought back some pictures of flowers.

Review: Google Hacks (book)

If you're seeking information about the Web's best search engine, look no further. Kirk McElhearn reviews *Google Hacks*, a great book whose 300+ pages will tell you everything you ever needed to know about using and programming the site.

Review: Pocket Tanks 1.00b

Fans of Scorched Earth will be interested in reading about Pocket Tanks, reviewed in this issue by Daniel Boland. Pick your weapons and start fighting.

Review: SPSS 11.0

If you're in need of a heavy-duty statistical analysis program, we've got one for you: David A. Zatz reviews the latest version of SPSS, a Mac OS X-only port of the program.

Review: Ten Thumbs Typing Tutor 2.2.2

Knowing how to type is pretty much a necessity, and Ten Thumbs Typing Tutor is one way to learn, offering a way to practice your most troublesome keys, and a few games to reinforce what you've learned. Reviewer Gregory Tetrault also suggests several alternative programs to consider.

Review: TiVo Home Media Option

TiVo has been popular for a long time, but you may not know about the TiVo Home Media Option. Eric Blair introduces you to a way to link your Mac and your TiVo together, allowing basic sharing of music and photos between the two platforms.

Review: World War 2 Online Blitzkrieg

Joe Kudrna reviews World War 2 Online Blitzkrieg, a highly detailed online combat simulation game that "spawns" you into WW2. Teamwork is highly important: unlike many shoot 'em up style games, this game doesn't expect you to win the war alone.



E-Mail

Back Issues

I just received my first online edition of ATPM; thank you for the best publication of its type I've ever seen.

How can I retrieve previous issues of ATPM?

—*Charles G. Lynch*

All the [back issues](#) are available on our Web site. —*Michael Tsai*

Mac OS X

A couple of months ago, feeling desperate, I sent an e-mail to ATPM explaining how, at 82 years, I was appalled to be confronted by Mac OS X; that I didn't know how to use it or to learn it especially as I was suffering from loss of memory. Step forward the readers of ATPM. John Petty, Matthew Coates, and Jack Schachtebeck all offered help, and I don't mind confessing that I used them shamelessly. But each one helped me to solve a puzzle or two. Now I'm feeling much happier with the new system and beginning to have a suspicion that it's better than OS9. Thank you ATPM.

—*Marius Pope*

Kudos

Hi there. I stumbled across your site while looking for FireWire info about my new (for me) Power Mac G3/300. It's a pleasure to find such a clean and well-run site with clear, concise, and helpful, to-the-point articles. Thanks again.

—*Richard Woodruff*

Converting LPs to CDs

Using an old turntable, a pre-amp, and an iMic, in addition to LP signals I receive a radio broadcast. Has anyone encountered this? Could a new, good turntable be the answer? Any ideas? Much thanks for any help.

—Robert Frye



Usually the phono pre-amp has a Radio Frequency (RF) filter to block the FM.

I just contacted a radio engineer friend and here's his help to find where the RF is leaking in. At each step, listen for the RF to go away.

1. All devices need to be grounded to the same power plug. If they're plugged into the same wall outlet with a power bar, that will do it.
2. Connect everything up and listen for the RF.
3. Disconnect the turntable from the pre-amp.
4. Connect a cable to the pre-amp to mimic the turntable cables. If you hear RF, then you may have bad turntable cables. This is where your problem is.
5. Disconnect the pre-amp from the iMic. If you hear RF here, you have a bad RF filter in the pre-amp. This is the most likely the source—a pre-amp with a cheap RF filter.
6. Disconnect the iMic (highly unlikely since this is an analogue problem). If you hear RF, you've got bad sockets on the iMic, I guess.

In each step, disconnect and reconnect a few times to be sure you are hearing the RF.

Hope this helps.

—Brian L. Reimer



I believe I have determined that the Radio Shack pre-amp I was using leaks. I have located a better one. As far as I can tell, the radio signal is gone. Should it fail, I still have the other tests you said to try. Meanwhile, I want to thank you and your engineer friend for your outstanding assistance. It's spared me further anguish and the cost of a new turntable. Please know that it is greatly appreciated.

—Robert Frye

Virtual PC

I can't seem to get Internet Explorer in Virtual PC 2.1.2 to work with the internal modem in my iBook. Could you please tell me how to get this to work?

—Jobby Wan Kenobi

I am assuming that you have an older iBook and are running OS 9. Upgrading to a newer version of VPC makes it easier to connect to the Internet (because VPC will share your Mac connection), but it isn't required. The trick is to create two different TCP/IP connection sets (TCP/IP, Modem, and AppleTalk settings) for your iBook. One set is for connecting to the Internet via OS 9, the other for VPC 2.1. I used Location Manager to make switching back and forth easier. I do not remember all the details on how to do this, but they are described in the VPC manual. If I recall correctly, you will need to set AppleTalk to "remote only." You also will have to properly configure your network, modem, and Internet settings in Windows to work with your iBook's internal modem. —Gregory Tetrault

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The Candy Apple

by Elyn Ritterskamp, eritterskamp@atpm.com

This Month's Candy Apple Is Golden (the Golden Rule, That Is)

I just wrapped up a unit on ethics with an introductory philosophy class and thought some of the stuff we learned might be applicable to the rest of us. We often face decisions about how to participate in a technological society; maybe some of these ideas will help simplify those choices. We'll talk about the ideas first, then try some sample problems.

Idea 1—Behave toward other people in ways you believe they should behave toward you. It doesn't matter what we think or feel, as long as our actions are grounded in respect for others. If we behave well toward others, eventually the thoughts and feelings of benevolence follow. Maybe. But that almost doesn't matter. What really matters is that we don't harm others.

Idea 2—Behave so as to maximize happiness for everyone. This one is difficult to quantify, but certain actions are recognized as being generally contributory to many people's happiness. The definition of "happiness" here is not giddiness or ecstasy, just a general feeling of well-being that lasts and is not constantly under attack.

Idea 3—Behave properly out of a state of character that makes it obvious what you should do.

Idea 1 is duty ethics, Idea 2 is utilitarianism, and Idea 3 is virtue ethics. Grossly oversimplified, all of them, but clear enough for our purpose, which is to apply them to real-life choices many of us make or have already made.

Problem 1—Whether to download an MP3 from someone else's computer. The issue is whether the music is copyrighted and ought to be paid for rather than shared. This does not include instances in which explicit permission is given to copy a file. If an artist is losing money by my copying the file rather than purchasing it, then the artist is being harmed.

Using duty ethics, we ask, “Would it be OK if I were trying to sell music and people didn’t pay for it but instead copied it for each other?” If the answer is No, then we will commit an unethical act if we download the file.

Using the principle of utility (utilitarianism), we ask, “Is it good for society for me to copy this file without paying for it?” If the answer is No, because it introduces an erosion of trust that will reduce future good for the society, then we commit an unethical act when we download the file.

Using virtue ethics, we never have to ask the question. We spend a lifetime cultivating a virtuous state of soul. If the virtues of courage, justice, moderation, and wisdom are sufficiently nurtured, when we arrive at moments of choice, we know what to do. We have a sense of what is just, and how that means that things belong in their proper places. We are sufficiently savvy in the subtleties of when to make exceptions and under what circumstances. We are courageous about doing the right thing even if it is not easy (*especially* when it is not easy!). We temper our desires with the knowledge that we are doing the right thing.

Problem 2—Whether to send in the shareware fee on an application. If the creator is not properly rewarded for her hard work and ideas, then we harm her. A reasonable trial period is understood as part of the demonstration. My hypothetical problem is concerned with what happens once that trial period has resulted in a decision to keep the software.

Using duty ethics, we ask, “Would it be OK if I were trying to make a living by making my program inexpensively available on the honor system, and nobody sent in the 10 bucks?” If the answer is No, then we will commit an unethical act if we use the program without paying for it.

Using the principle of utility (utilitarianism), we ask, “Is it good for society for me to continue using this program without paying for it?” If the answer is No, because it means that eventually shareware writers and artists will stop producing their work because they are not being fairly compensated for it, then we commit an unethical act when we use the program without paying for it.

Using virtue ethics, just like on Problem 1, we never have to ask the question. We are such great people that we know what to do. We test the software for a while, decide we want to keep it, and then we send in the money. Easy.



So there you have it. Three different ways to tackle life's toughest ethical problems. And all you have to do is decide whether to download some tunes, or whether to fork over that \$10 you've been meaning to send in for that nifty piece of software you use every other day.

Onward.

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Report

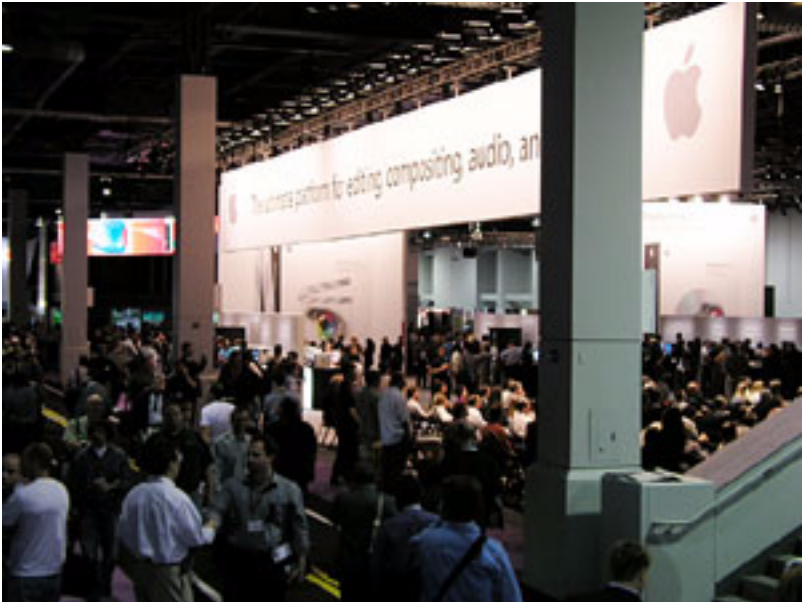
by Lee Bennett, lbennett@atpm.com

National Association of Broadcasters Convention 2003

Can You Say “Newbie?”

Let's be totally truthful. What you've got here is a first-time NAB attendee who has only started doing digital video (DV) work in the past two years or so and is just finally beginning to learn to use Apple's Final Cut Pro instead of Adobe Premiere. But since it seems I'm the only ATPM staff member who went, I was nominated to come back with the scoop! Luckily, I had an NAB veteran with me. My good friend and former college roommate, Andy McConnell, took me under his wing and helped me to have a really good time. Andy has attended eight of the last nine NAB conventions.

I could easily go on about what it felt like to be one of about 90,000 people wandering around the two-million-square-foot Las Vegas Convention Center that housed some 1,200 exhibitors. However, since this publication is about the Macintosh experience, I'll stay focused.



The spectators around Apple's pavilion at NAB were never sparse.

Apple's Video Editing Powerhouse

Probably the biggest announcement pertaining to Macintosh users was the announcement of [Final Cut Pro 4](#) to be released between June and August. I think the only complaint I have is self-imposed. I'll be editing several short videos to be shown at an annual week-long convocation that always begins on Memorial Day weekend, and it just seems too bad I won't quite be able to use the new version for this round of videos.



Apple announced Final Cut Pro 4 on Sunday, April 6. These banners were hung outside the South Hall shortly afterward.

The new Final Cut Pro 4 features were met with enthusiastic applause at each moment and venue I heard them. The new features total more than 300—the most significant being [RT Extreme](#), support for 8- and 10-bit uncompressed video, 32-bit processing, and [enhanced interface customization](#).

Bundles of Joy

Final Cut Pro 4 will also come bundled with three brand-new applications. [LiveType](#) provides powerful animation tools to your titling, including templates to make letters appear to digitally draw themselves on the screen. [Compressor](#) incorporates media encoding directly within Final Cut Pro. The first time I heard Compressor being mentioned,

I overheard someone in the crowd say, “Bye bye, [Cleaner!](#)” Last, but absolutely not least, is [Soundtrack](#), an integrated application providing access to thousands of royalty-free music samples and 30 professional effects. All the sounds loop and automatically match each other in adjustable pitch and tempo, allowing you to “compose” an infinite number of musical arrangements for your videos. If this sounds familiar to composing with [Sonic Foundry’s Acid](#) on the PC, it may be no wonder. While I have not been able to find a solid source for this fact, my understanding is that one of the people Apple recruited to develop Soundtrack also helped write Acid.

...And That’s Not All...

In addition to these new applications, [Cinema Tools](#)—previously available separately—will also be bundled with Final Cut Pro 4. The utility, which originally sold for nearly \$1,000, has been updated to support ink numbers and change lists for both 35mm and 16mm film.

Final Cut Pro 4's price for a new purchase will remain unchanged at \$999. Upgrades are \$399.



Yours truly sat in on a 30-minute introduction to Final Cut Pro 4. Apple set up a mini classroom within their pavilion and conducted these introductions—as well as several in-depth topic-specific tutorials—all day long throughout the convention. 20–30 workstations were set up, complete with [Bose QuietComfort\(R\) Acoustic Noise Cancelling\(R\) headsets](#). Getting to try out these headphones for a half hour clinched my decision to buy a set the next day!

It's Not Over 'til Apple Says It's Over

Apple also announced [Shake 3](#) and [DVD Studio Pro 2](#) at NAB. Shake is a digital compositing and visual effects package for use with HD and film projects and uses [Shake Qmaster](#) network render management software. DVD Studio Pro 2 brings an updated interface, time line track editing, and professional templates, styles, buttons, and backgrounds.



Your new production team is here.

Can You Say "Growing Market Share?"

Andy informed me that, for a while, Apple's presence at NAB seemed to be dwindling. That is absolutely not the case any longer. Practically every time I turned to a new exhibitor, I saw Apple equipment driving what they had to show. Numerous exhibitors had even gotten their hands on the new [17" PowerBook](#).

I spent a little too much energy just taking everything in and not getting as many photographs as I should have. Not to worry, though. Apple reps took care of that job for me. Apple's Web site has a [full section devoted to NAB 2003](#), complete with photo galleries.

Award-winning Wonders

One additional bit of major news for Apple is that Final Cut Pro 4 won [two best of show awards](#). MacCentral reports that FCP was the recipient of a Vidy Award and a Government Video Salute, presented by [United Entertainment Media](#).

Final Thought

I'm going to wrap up with props to Crywolf and whoever came up with the slogan for their [CoolMac Silencer](#). The slogan, "Hear Yourself Think Different," is something we can all take to heart. Granted, it's for a product that I'll probably never directly use any time soon, but the words left a considerable impression—especially when you consider the numerous complaints at how loud the Mirrored Drive Door G4s are. This company makes some great-looking equipment silencing and cooling cases. Some marketing brain was on the ball with this slogan.

But beyond this product, think about the slogan. How much psychological clutter is present in your life that prevents you from being able to, well, think different?

Anyway, I hope to see you at NAB 2004!

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Interview

by Lee Bennett, lbennett@atpm.com

Jonathan Gales, MobileTracker.net

Advances in mobile communication technology lately have picked up such a pace, one can hardly stay abreast of what is current—that is, until MobileTracker.net came along. ATPM decided to dig into the mind of MobileTracker’s kingpin, Jonathan Gales.

During one of my numerous weekend trips to Tampa, Florida, I met up with Jon at the [Apple Store at International Plaza](#). We spent a few moments drooling over the current line of PowerBooks, then made our way to the outdoor portion of the mall, sat down, and started to talk about MobileTracker.



ATPM: Start by telling us what you currently do. You’re in school, right?

Jonathan Gales: Shhh. You aren’t supposed to know I’m in school! But, if you must know, in a few years I will be a degree-carrying computer scientist. Currently, my time is divided among [MacMerc](#), MobileTracker, and school.

ATPM: What did you do that first got you into Web programming?

JG: I started out about six years ago learning HTML through GeoCities. It was about the only thing back then and, at that time, it didn’t have any fancy templating. Just HTML, baby.

ATPM: At what point did you start learning the level of HTML and PHP you program in today?

JG: I got a book on Perl a few years back and then quickly moved on to PHP because CGI just plain sucks. I got a few books on the subject, but what helped the most was [PHP.net](#) (the best site for a programming language, ever). I quickly learned a few things and then started writing stuff for other people.

ATPM: Before MobileTracker, MacMerc was where much of your online time was spent. What is your role there and how did you get involved?

JG: I'm technically the "Webmaster," but most of my time is spent writing articles and news—not code. Rick Yaeger, the founder, started the site probably close to four years ago and asked me to come on board in June 2001. We took the site from a Blogger.com-powered weeny to a PHP/MySQL powerhouse. It was a big transition, but it's been fun. Along the way, we've picked up a few other people—Greg Maddux and Brian Burnham.

ATPM: And then, after a time of working with MacMerc and [your blog](#), you started MobileTracker. Tell us exactly what MobileTracker is all about and your motivation for starting it.

JG: I love [Gizmodo](#), but it doesn't cover much of the phone market—it's all about gadgets. I figured I could scoop him on most stories and just cover the market much better. I also thought the economics would pay off and, so far, they have. MobileTracker is the relaunch of n3rd.net Cell Station—a site that lasted about two weeks. I thought it was great, but then the editor over at MacMinute said, "Hey, you need a domain name." It never crossed my mind before, but I instantly felt the need. In about 10 minutes, I had the debit card out and owned MobileTracker.net. The site's purpose is simply to track the latest and greatest in the mobile world. MobileTracker is never pushy about buying anything, but when someone does, we get a kickback. Not big, usually 15 percent, but it keeps the server running. As the site grows, economies of scale start to kick in.

ATPM: And the site's tag line is dead on. You *can't* trust the salesperson! Do you report on all things in mobile communications or is there a niche that you tend to focus on?

JG: MobileTracker definitely focuses on cell phones, but since the market changes so fast, who knows what's going to be next? Gotta keep the future open.

ATPM: Do you have access to particular sources or any insider information about upcoming technology, or do you simply report on what you find on your own?

JG: Can I plead the fifth? We go into rumors as much as possible, but our sources aren't, at this time, mission critical. However, if anyone wants to be a snoop, they can e-mail us.

ATPM: Hah, yeah, you're allowed to plead the fifth! So what are some of the coolest and most innovative things you've reported on to date?

JG: I'd say the satellite-powered phones that are being used all over Iraq by essentially every cable news station. They are actually quite cheap and readily available. Some of the other cool stuff in the news is video recording on phones (MPEG-4) and the color [HipTop](#) that's coming this fall.

ATPM: MobileTracker's coverage includes combination PDA/phone devices. Is there any other type of related technology you'd like to include as part of MobileTracker someday?

JG: The [PowerPage](#) does a great job with some of the other mobile technology (laptops, for instance). The goal is really to just focus on phones. It's a big market, and the site can always do even better than it is right now (everyone can always improve).

ATPM: We were just looking at the latest version of PowerBook G4s at the Apple Store before doing this interview. I suppose you're itching to buy one pretty soon?

JG: Totally. I use Macs exclusively and, since I update a few sites daily, I spend a lot of time on my aging 400 MHz G4 tower. As I mentioned, I go to school and, in between classes, it would be great to be able to bypass the computer lab and hop online in style. I have PowerBook envy so bad, it hurts.

ATPM: Should I be worried that you're typing on *my* PowerBook with your responses? (smirk)

JG: Um (scouts out escape path), no, not at all...

ATPM: I'm suddenly reminded of the Lay's potato chips commercial. Get your own PowerBook! Anyway, how do Macs figure into MobileTracker and your own life?

JG: MobileTracker isn't a Mac site but, because most Mac users like nice things, a good bit of our traffic is Mac users. Also, most of my contacts are at Mac sites thanks to my stint at MacMerc, so when I beg for the almighty link, it's usually on a Mac site (it's no coincidence we're doing this interview). I use a Mac because I'm not an IT guy. When I'm working on something, I want the computer to be a tool to accomplish the task—not just a tool. Windows-powered computers just don't do this.

ATPM: Is there anything else about MobileTracker you want potential visitors to know? What can a newcomer expect when he clicks to MobileTracker.net?

JG: We update all the time Monday through Friday and as warranted on the weekends. If you don't want to be a compulsive clicker, subscribe to our [RSS feed](#). It includes full posts and pictures. If it's your first time at MobileTracker, take some time to look around and, hopefully, you'll like what you see. Also, if you have a lead on a hot news story that hasn't yet been featured, let us know—news@mobiletracker.net.

ATPM: Thanks, Jon. It was totally my pleasure to meet you in person and I wish you success with MobileTracker.

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What's Under the Hood

by Robert C. Lewis, rlewis@atpm.com

Got Vinyl? LPs to CDs Part 3: The Playlist and Burning to CD

The Story So Far

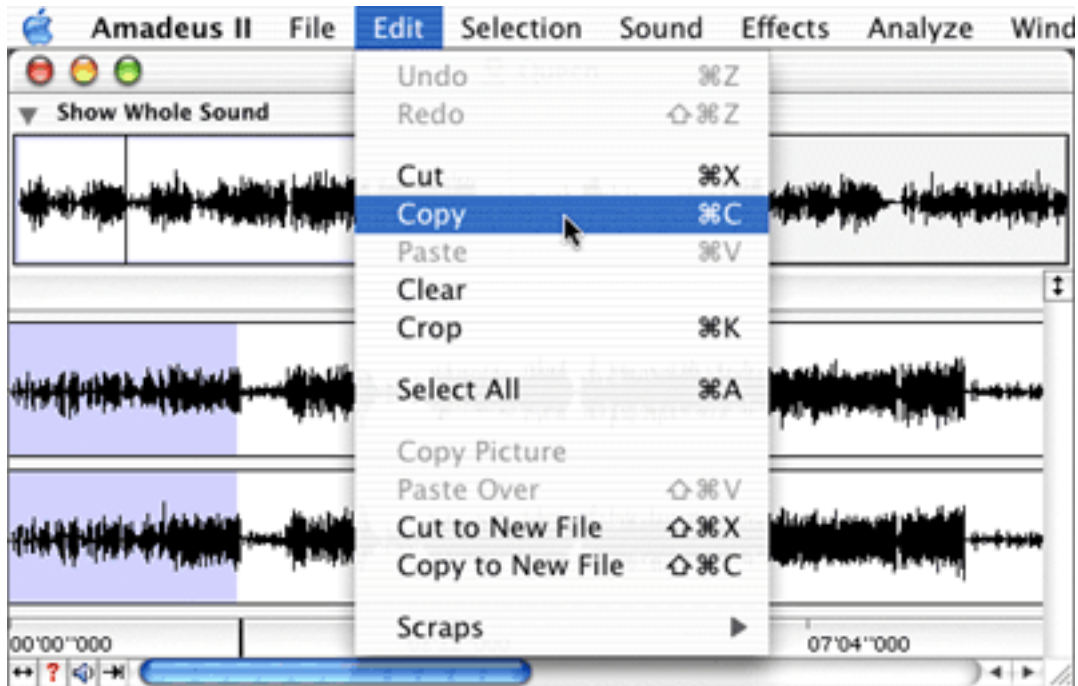
In the [first part](#) of this series I discussed the relevant terminology and went over the required hardware. [Last month](#), I looked at how to record and how to filter your recording.

When you copied your original recording onto your Mac and filtered it to your liking, you did it as one continuous piece of audio. In this form, there is nothing separating each song or track; if you were to burn your music to CD at this point, you would not be able to switch between individual tracks at will. The next step, therefore, is to break your music into individual tracks. This article, the last in the series, will show how to break up your recording into individual tracks, arrange those tracks into a playlist, and burn that playlist to CD.

Amadeus II

Doing this in Amadeus II is straightforward. Highlight the first song in your recording. Make sure you check the beginning and end of your selection so you don't clip either end of the song. From the Edit menu, select Copy, and from the File menu, select New. You will then be presented with a new sound window. Select Paste from the Edit menu and that track will be pasted into the sound window. To be on the safe side, play back both

the beginning and end of this track. If the music starts or ends abruptly, discard the new file and re-try selecting the track in your original recording, copying and pasting it into a new file.



Amadeus II: Copying a Track

You might also want to play back the track in its entirety to make sure all unwanted noise has been eliminated. If not, go back to part two of this series and apply the various filters as I described. Once you are satisfied with that track, choose Save As... from the File menu, name the file, and click Save. Then, go back to your original recording and repeat this process with each of the rest of the tracks. I suggest that you save all of your tracks in a new folder.

Final Vinyl

Last month, I reported that Final Vinyl (which, as you will recall, comes bundled with Griffin Technology's iMic) lacked the filters required to restore your recordings. Sadly, I have also found it to be weak when it comes to cutting your music into tracks. Although the instructions did explain how to place "cue marks" between each cut, they did not explain how to save each track.



Final Vinyl: Adding a Cue Mark

The instructions tell you that for each break between two songs found while playing back your recording, you should select Pause from the Control window and then click on "Cue+" in the Control window. This will then put a marker between the two tracks. At this point, the instructions leave you hanging on what to do next. I tried to save, thinking it might save the tracks individually, to no avail.

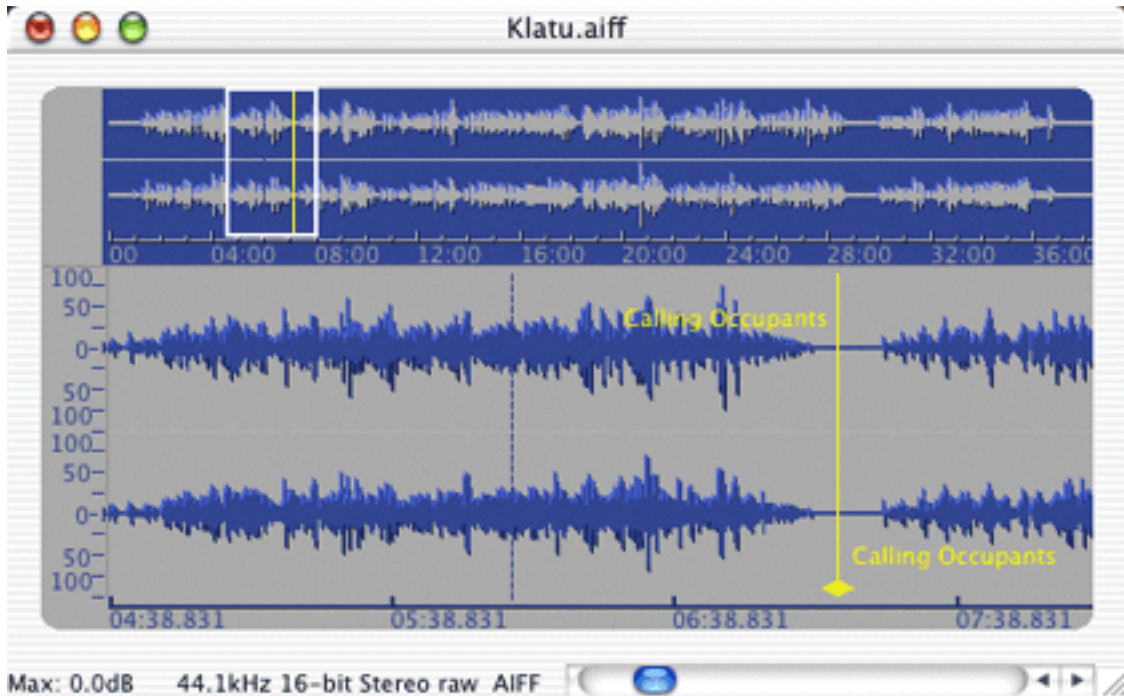
Worse, Final Vinyl saves its audio files without type and creator codes. The type code must be set to AIFF (all caps) so that other editing applications can read them. There are many utilities available that let you change a file's type and creator codes, one example being [Super Get Info](#), but that is beyond the scope of this article.

I could go on about Final Vinyl's weaknesses, but there are alternatives to Final Vinyl. I have already tested the iMic with Amadeus II, Peak LE, Spin Doctor, and Montage. Of these four, Amadeus II and Peak LE worked with the iMic because they support Apple's Sound Manager, for which the iMic acts as an input source.

There may be other audio software available that is also compatible with the iMic; if you know of such software, please let me know by e-mail and I will try to compile a list for next month's column. If you plan to use the iMic, I recommend that you use Amadeus II to record and edit your music; I don't think it's worth using Final Vinyl, even though it's free.

Peak LE

Separating recordings into individual tracks works very well in Peak LE, and it is done by breaking your music into regions. A region is a segment of audio bounded by markers that signify the start and end.



Peak LE: Marking the End of Track One

To create a region, click at the beginning of a song. Then find the end of the cut and Shift-click there to highlight that song. From the Action menu, select New Region. A dialog box will appear asking you to name that section of music. Choose a name, click OK, and that section will automatically be marked off as a region, with start and end markers designated by two yellow lines.

The thing I like most about this method is the fact that these lines are not set in stone. If you listen to the end of the region and find it cuts off prematurely, you can click on the region marker and move it to the correct position. Once you have created your first region, repeat the process for the other songs in your recording.

After you have separated your recording into regions, you will be ready to create your playlist from within Peak LE. In the File menu, select New > Playlist and a blank Playlist window will appear. Next, go to the Window menu and select Contents. This will open a content window that displays all of the regions you marked off in your recording. Now all you have to do is drag your titles over to the Playlist window. If they are not in the right order, simply drag a title to another position.

Once you have the playlist the way you like it, go to the File menu, select Save As..., and give your playlist a name. Then you are ready to burn to CD. Peak LE is designed to work with Toast 5 and higher, and a copy of Toast Light is bundled accordingly.

At the top of the playlist window is a set of buttons. On the left side next to the trash can you will see a button with a small icon of a CD and a letter B within it. Click it, and Peak LE will automatically launch Toast and copy the playlist over. Unfortunately, the track titles do not carry over. You will have to rename the tracks in Toast by double-clicking on each title and retyping its correct name.

CD Spin Doctor

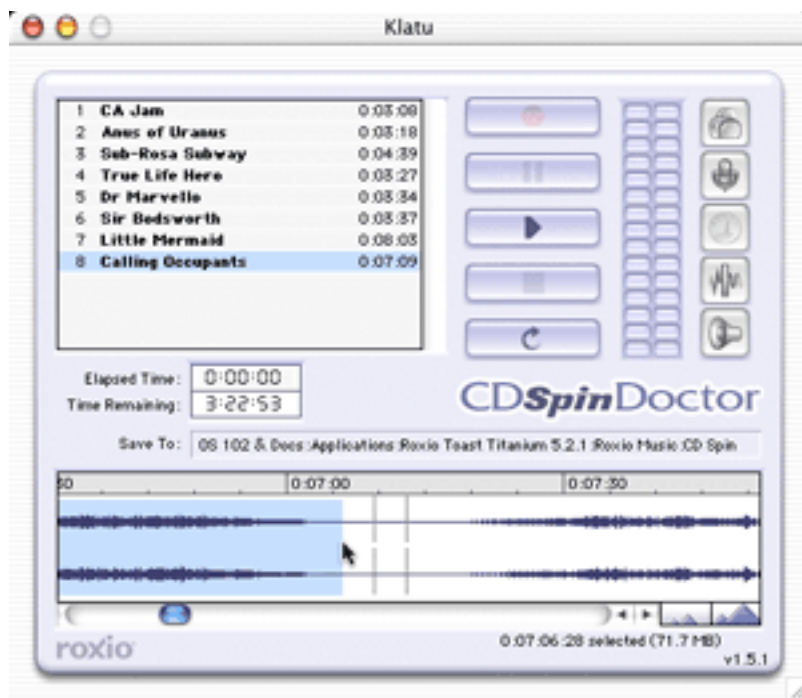
There are three different ways to separate your recording into tracks using CD Spin Doctor. Auto-Define Tracks (ADT), found in the Tracks menu, will automatically go through your recording looking for points of silence. Each time it finds such a point, it places a marker there.

The problem with this method is that if there is a false ending or sudden drop in sound, ADT will place a marker there causing one track to become two or even three tracks. ADT does an even worse job with classical music, and removing unneeded tracks can become very tedious especially when eight tracks become 20, or more. Roxio recommends that you only use this function when you are sure that all tracks in a recording are continuous, with no false audio drops.

The Define Track function, also in the Tracks menu, works in almost the same way as the New Region command does in Peak LE. Before you start this process, expand the window to fill your screen; this will help you find the gaps between each track with more ease. For some reason the zoom button at the top left of the window is grayed out, so use the drag handle on the bottom right corner instead.

Now, find the beginning of the first track. Click where the music begins and drag to the right, keeping your eye open to when that track ends. Once you find that point, let go. That section will be highlighted. Select Define Track from the Track menu; that track will now have markers set at the beginning and end of it and a generic title will appear in the Playlist window. Repeat this process for your other tracks.

A mistake in the start or end time of a track can also be easily corrected. Select the track you wish to modify from the playlist to highlight it. Go to where you wish to make the correction. Shift-click in the blue area next to the marker and drag in the direction needed to correct the mistake. As you drag, the area you move over will turn white. Once done, release the mouse, and the marker will move to the new point. Although this procedure is described in the manual, it neglects to say that you need to Shift-click when you drag. The book says to just click and drag. If you do that, you will de-select the entire track.



Adjusting a Marker in CD Spin Doctor

One thing I do not like about this method is that you cannot Shift-click when choosing a track. That is why expanding the window to the full size of your screen is so important, as it will greatly reduce the amount of scrolling.

Once you are done breaking your music into tracks, you can double-click on each track and name it. Spin Doctor comes packaged with Toast Titanium, which means that once you are done with your playlist you can transfer it directly to Toast and burn your CD (but not before setting the pauses, as described below).



Tracks Defined in CD Spin Doctor

Unfortunately, each time I clicked on the Toast icon button in Spin Doctor things did not seem to work right. Yes, clicking on the button did launch Toast, but the audio tracks did not transfer once Toast was fully open. This turns out to be a bug in Spin Doctor under Mac OS X 10.2. If for some reason the tracks are not automatically transferred to Toast upon clicking the button, simply select all the tracks in Spin Doctor and drag them onto the Toast window. This workaround is not mentioned in the manual or on the Web site.

There is a third, also undocumented way to section your recording. First, create a new folder on your desktop. Give that folder the name of your recording. Now, go back to Spin Doctor and highlight the first track. Then drag that section of audio to the folder on your desktop. That track will be copied into a new file in the folder, which you can rename. Follow these steps for the remaining tracks.

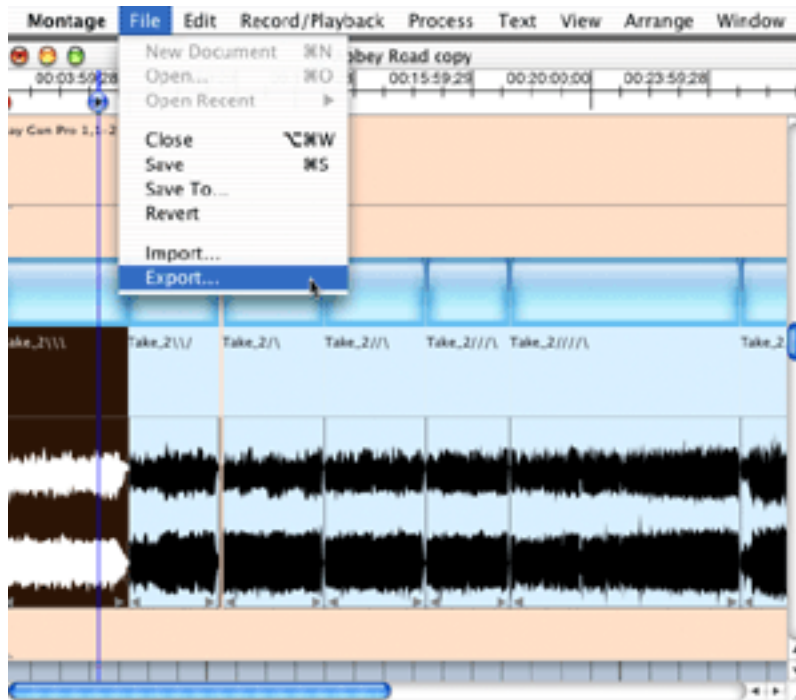
Montage With Ray Gun Pro

Last month I discussed how to use Ray Gun Pro (RGP) in conjunction with Montage. In doing so, I left you in limbo as to what to do after setting RGP to your liking. That's because before you can actually apply your changes in RGP, you must first section your recording into tracks and then export them. I should note at this point, in case the following instructions are hard to follow, that Arboretum plans to release an update to Montage+RGP in about a month, and the documents are being re-written in areas to make using Montage and RGP easier to understand and use.

With your recording still encapsulated in RGP, click the dark blue bar area in the music window. This will turn the music section black. Then, find the first break between track one and two. At the very top of the music window is a time line bar; click once in the bottom half of the time line bar, and a blue playback marker will appear. At the top of that marker is a small blue disk with an arrow within it; clicking and holding on the disk will let you move the marker to the left or right.

When you have the marker where you want it, select Split from the Edit menu and Montage will set the first track. Then move to the next break between tracks two and three, set the marker, select Split, and Montage will create the next break. Repeat this process for the rest of your recording.

The thing I like most about this method is that you do not have to set markers up at each end of a track; Montage remembers where you left off each time. This is very useful when one track runs into another without a natural break between the two.



Montage: Exporting a Selected Track

It is now time to export the tracks. I suggest that you now take a moment and double-check that the settings you have applied by RGP are how you want them, because these settings will be applied to your tracks as you export them.

Go to each track and click in the dark blue bar, which will highlight that track, then select Export... from the File menu. A small dialog will pop up; use the default settings and click OK. Montage will then render that track as an audio file, applying all your settings. Once this is done, the standard Save window will appear. Create a new folder, name the file, click Save, and move on to the next track.

Correction: last month I said you had to buy Montage and Ray Gun Pro together for \$250. It has come to my attention that you can buy Ray Gun Pro by itself with a free limited copy of Montage for \$149. Arboretum did this intentionally so that people who want to work only with audio do not have to buy the full version of Montage.

Toast: Importing

The next step is to import the individual files you just created into a disc burning program. I found Toast to be by far the most flexible and user-friendly pieces of software for this task, although you may prefer to use iTunes. I will discuss how to use iTunes to burn audio CDs at the end of this article.

In Toast's main window, select Audio. In the Finder, navigate to the folder you saved your tracks in, then select and drag all of the files to the Toast window, or drag one file at a time. If, in Toast, the tracks show up in the wrong order, you can click and drag each track to another position in the list.

Toast: Burning

To the left of the Title column is the Pause column. Set all the pauses except the first one to zero. If you do not do this, there will be an extra gap of silence between each track. This silence will be very different from the transition made going from one track to the next. I made that mistake on my first attempt, and the result just did not sound right.

Once you have adjusted the pauses, all you have to do is insert a blank CD, click Record, and let your Mac do the rest.

iTunes

iTunes does not yet offer the means to separate a single recording into tracks, but if you prefer iTunes to Toast when it comes to burning your CD this is the section for you.

Before you import your tracks into iTunes, open the iTunes Preferences window and click the Burning icon. Set the Disk Format to either Audio or MP3 CD, with a Gap Between Songs of None.

Now, click the Advanced icon. This is very important. Deselect “Copy file to iTunes music folder when adding to library.” If you do not do this, all of your tracks will be copied into iTunes’ Music folder, eating up another 500 to 700 MB of space on your hard drive. Click OK to dismiss the Preferences window.

To import your tracks, first select New Playlist from the File menu. Name your playlist by clicking on the “untitled playlist” title in the Source column. Then, drag all your tracks over to the iTunes window. Order the tunes the way you want them, click the Burn CD button in the main iTunes window, insert a blank CD, and iTunes does the rest.

And the Winner Is

Most of the material I have discussed in the past three months does the job. When it comes to hardware, do your homework.

I could not be happier with my Stanton ST8–80 turntable. M-Audio makes some great audio processing cards, and now it has an external version of the Audiophile 2496 retailing as the Audiophile USB, for \$249. I hope to have a look at it sometime in the future. The iMic is a great economical way to record audio on your Mac if it lacks PCI slots.

For \$25, I would be crazy not to say that Amadeus II is a great entry-level program for those who want to test the waters of recording and editing. Spin Doctor is also useful, and it comes bundled with Toast. Peak LE is great for breaking your music into tracks, but it will have to wait for Arboretum to release Ray Gun Pro as a plug-in to make it whole. Montage with Ray Gun Pro is in its early stages, and according to Arboretum the next update will bring major changes and improvements. If you are serious about your audio and want to use Montage with Ray Gun Pro, I recommend that you wait till the update comes out.

Last Words (For Now)

What started out as a one-off article has, to my surprise, mutated into a three-part series. Before I close—gosh, did I actually say *close*?—I’d like to make some final points.

First, take your time. Do not try to rush through the whole process. Clean your albums before recording. The cleaner the album, the less noise will be picked up. Next, be careful with your filters. Listen to your music often as you apply the filters. If possible, use

headphones to get a better handle on how your music sounds. Check and double check as you break your music into tracks. Nothing can be more infuriating than to find out that you wasted a whole CD by cutting a single track short.

Lastly, I will stress again what I mentioned last month: avoid using the microphone port when recording onto your Mac. If you use it you run a much greater risk of picking up all the nice electrical noises created by your Mac's internal fan, hard drive, CD drive, and other components.

Next month, I will either do a utility roundup or publish an article that I have been slowly piecing together on the latest technology in input devices. That is it for now. By the time you read my next article, another year in my life cycle will have passed. (Yes, I'm a stubborn Taurus.) Until then...End of Line.

Copyright © 2003 Robert C. Lewis, rlewis@atpm.com. Robert is a Mac consultant.



How To

by Matthew Coates, hmedia@mac.com

Mac OS X's Acrobat Moves

The Myth, the Legend, the PDF

The Adobe PDF (Portable Document Format) is a small wonder of computing—remarkably versatile, endlessly useful, and simply everywhere. It is the Rosetta Stone of computer compatibility, a miraculous solution to the oldest hassle in personal computing: we don't all have the same stuff.

We don't have the same computers, or programs, or fonts, or printers, or knowledge about how it all works. But with the PDF, none of that matters. I know I can always send you a document that you can open. And you can send one to me. Apparently, we're doing a lot of that. No matter what the PDF contains—a bare-bones ReadMe, an IRS tax form, perhaps an elaborate architectural rendering—it is an elegant realization of the simple yet profitable concept of a universal file format. A properly-prepared PDF will always look and print as it was intended.

Adobe's free Acrobat Reader (soon to be renamed Adobe Reader with the release of version 6) may be the world's most common software; Adobe estimates that 500 million copies are out there, perhaps half of which are on my hard drive.

OS X and the PDF

With new OS X native versions of the company's PDF-creation software, [Acrobat 6](#), rolling out this month, you'll be hearing a lot more about PDF technology, and especially some of the heavy duty tools featured in the pricier, and heavily promoted, [professional version](#) that's aimed at the design, graphics, and commercial printing industries.

But most of us do not deal with huge, complex PDFs that a gigantic six-color digital press would use to print a \$79 coffee table book. Instead, we download brochures and manuals, business reports, government documents, catalogs, and, of course, online Mac magazines.

Remember the thrill of downloading that first PDF? And remember how your hopes were squashed by the realization that Acrobat Reader is look-but-do-not-touch software? Creating a PDF requires the \$250 standard edition of Adobe Acrobat (soon to cost \$260), a lot of money for the occasional user. But, unless you own an application such as PageMaker with Acrobat's creation engine already under the hood, purchasing Acrobat used to be your only option.

Well, forget that. With OS X's nifty integration of PDF technology, anyone can be in the publishing business. PDF is a native file format in OS X, meaning that any application with a Print command can generate a PDF.

There are limitations. Acrobat offers a long list of PDF-creation options; OS X offers none. OS X creates PDFs that look great on your monitor and generally print just as well. But it does not offer Acrobat's sterling ability to compress graphics, nor any other Acrobat features, such as password protection and document annotation. Still, if your PDF needs are fairly basic (simple documents without a lot of graphics), OS X's implementation of PDF technology will serve you well and save you money.

Creating a PDF in OS X is easy. Although only a few applications offer a convenient "Save as PDF" command in the File menu, the saving procedure under OS X Jaguar is just as straightforward: open the Print dialog box and click the "Save as PDF" button. Pick a destination for the file and you're done.

Earlier versions of OS X don't have a "Save as PDF" button. Instead, select "Output Options" in the Print dialog box's pop-up menu. Check "Save as File," select PDF from the Format menu, and click Print. While this procedure (which also works in Jaguar) is not exactly intuitive, it does offer a clue about why you're mucking about in a print dialog box to save a file. It's the other file format option: PostScript. The PDF is a sibling of this complex printer language that has powered a fair-sized chunk of the digital age.

PostScript is the native tongue of many laser printers and high-end imaging devices; essentially, it tells the printer how to construct a page for printing. Normally, a PostScript version of a document is sent directly to the printer, but it may also be saved—in geek-speak, a process called "printing to disk." Acrobat Distiller, Acrobat's PDF creation engine, makes user-friendly PDFs from these all-code PostScript files. Until Acrobat came along

and put a happy face on PostScript, many commercial printing companies preferred to work from PostScript files, rather than native files from page layout applications, because, like PDFs, they include everything needed to print a document.

OS X does not use PostScript, which is owned by Adobe, instead relying on the Apple graphic technology called Quartz. If the PDF is PostScript's sibling, then Quartz is PostScript's cousin. Maybe even second cousin. But you won't care once your Mac starts generating PDFs for free.

PDFs and Preview

OS X's core integration of PDF technology goes beyond generating files. If you frequently use PDFs, and especially if you often open several at once, consider switching to Apple's graphic viewer Preview as your everyday PDF reader. You may already know Preview as a huge improvement over OS 9's PictureViewer when it comes to opening and converting graphics files, but for some users this freebee also is a worthy replacement for Acrobat Reader.

For me, Preview's thumbnail feature clinches the deal. When you drag several PDFs onto the Acrobat Reader icon, each document opens in a separate window. Do the same with Preview, and you are presented with a single viewer window displaying the first page of one document and a sliding drawer of generously sized (and adjustable) thumbnails of each remaining page, and those of the other PDF documents. It's a terrific feature when screen real estate is at a premium.

Since Preview is primarily a graphics viewer, it is missing two text-related Acrobat features you might consider deal-breakers: clickable Web and document links and a Find feature. And Preview's Zoom feature is annoying when working with PDFs (and any other file format, for that matter). The zoom is inexplicably nailed to the center of the window, while Acrobat and most other Mac applications allow you to move a magnifying glass tool to change the focus of a zoom. It would be nice to see these problems addressed in the next version of Preview, but for now, stick with Acrobat Reader when working with interactive PDF documents.

There are several test-drive options if you're considering a switch from Acrobat to Preview. Preview can open Acrobat-generated PDFs via the usual Mac methods for opening a file in an application that didn't create it. Or you can choose to have a particular PDF always

open in Preview. Select the document's icon, hold down the Option key, and choose "Always Open With" from the File menu. Then select Preview from the submenu. This also works via contextual menus.

If you want to make all of your PDFs open in Preview, select the icon of any PDF and choose Get Info from the File menu. Click the triangle next to Open With, choose Preview from the pop-up menu, and click Change All. But note that the icon of an Acrobat-generated PDF won't change unless you save the PDF with a different name, and the Get Info window waffles a bit, promising only to use the default application to open documents that are "like" your sample. Translation: there's no guarantee this technique will work consistently.

You may have already taken Preview for a PDF-opening test drive and didn't know it. In OS X, the Print dialog box includes a Preview button, and its name is no coincidence. Clicking the button opens your document as a PDF file in Preview if it is your default PDF application; otherwise, Acrobat Reader will open.

Before I move on, let's have a little fun with Preview. Let's say you have an original document written in Microsoft Word and named it "I Love my Mac" (without quotation marks). Click the Preview button in Word's Print dialog box, and your love letter opens in Preview. Save it using Save As in the File menu, accepting the default file name for the document and choosing the desktop as the destination. The result is a PDF with this oddball name:

Preview of "Microsoft Word—I Love My Mac.doc." pdf

Alas, if you are contemplating parlaying this oddity into an endless loop of previewed previews, it won't work. When you click the Preview button in Preview's own Print dialog box, it opens a new PDF but with the mundane name "untitled." Rats.

Acrobat Online

Despite all the PDF-generating fun you can have with your Mac, there may be times when you will need PDF features that OS X can't deliver. Say hello to [Create Adobe PDF Online](#). It's a great resource.



The screenshot shows the 'Create Adobe PDF Online' subscriber interface. At the top, the title 'Create Adobe PDF Online' is displayed in a large serif font, with an orange 'Subscriber' badge to its right. Below the title is a horizontal navigation menu with links for 'product info', 'help', 'support', 'start a web case', 'downloads', 'related products', and 'log out', separated by vertical dotted lines. A 'Welcome' message is positioned below the menu. The main content area features two large circular buttons: a yellow one labeled 'Select a File' and a blue one labeled 'Submit a URL'. Each button contains an icon of a document with a PDF symbol. Below the 'Select a File' button, text explains that users can choose a file from their hard drive for conversion to Adobe PDF or OCR. Below the 'Submit a URL' button, text explains that users can submit a URL to capture a web page as a PDF. To the right of these buttons is a vertical dotted line, and to its right are four links: 'Conversion Choices', 'Conversion Status', 'Conversion History', and 'Preferences', each preceded by a small blue circular icon.

This is the starting screen once a subscriber has logged in.

I use this online PDF maker more often than my copy of Acrobat. If I hadn't bought the software before I tried Create Adobe PDF Online, I might not have bought it at all. The Web-based service is a great choice for small businesses and single users who occasionally need to make a fully functional PDF but do not want to pay for Acrobat. At \$9.99 a month or a lump-sum \$99.99 for a year, you can use the Adobe Web service for more than two years before the fees amount to more than the price of the software. Chances are, you'll spring for an Acrobat upgrade before then, anyway. And you won't have to spend anything to try online PDF conversion—the service offers a free demo of up to five file conversions.

Create Adobe PDF Online offers most of the significant features of Adobe Acrobat, as well as a few the software does not currently have such as Paper Capture, which creates searchable PDFs from scanned paper documents. Paper Capture was dropped from version 5 of Adobe Acrobat for the Mac despite howls from users (thankfully, it returns in Acrobat 6).

Adobe's Web PDF service works with almost any file format, including Microsoft Office applications; Adobe's Illustrator, InDesign, Photoshop, PageMaker, and FrameMaker; WordPerfect; and a long list of graphic file formats including EPS, JPEG, GIF, TIFF, PNG, along with any other file which can be converted to PostScript before you upload it. Create Adobe PDF Online offers far too many PDF-making options to go into here, but if you have used Acrobat Distiller, the boxed version's PDF-creation engine, you've seen them before. Excellent HTML-based help files lucidly explain the service's features. For most users, including beginners, one of five pre-defined option sets for optimizing your PDF will

be all you need, whether your PDF is destined for the Web, general use, or even commercial printing. The service's interface is clean and well-designed; it never gives more information than a user can handle.

Set Options

Select options for your conversion. To edit your settings, go to [Preferences](#).

Conversion Settings

① **Filename:** My Document.txt (4 KB)

Optimization Settings:

eBook

PDF Compatibility:

Acrobat 4.0(PDF 1.3)

Convert pages from: [] to: []

② **Security Options:**

Add [Adobe Acrobat Security](#) to your file.

No Security

③ **Delivery Method:**

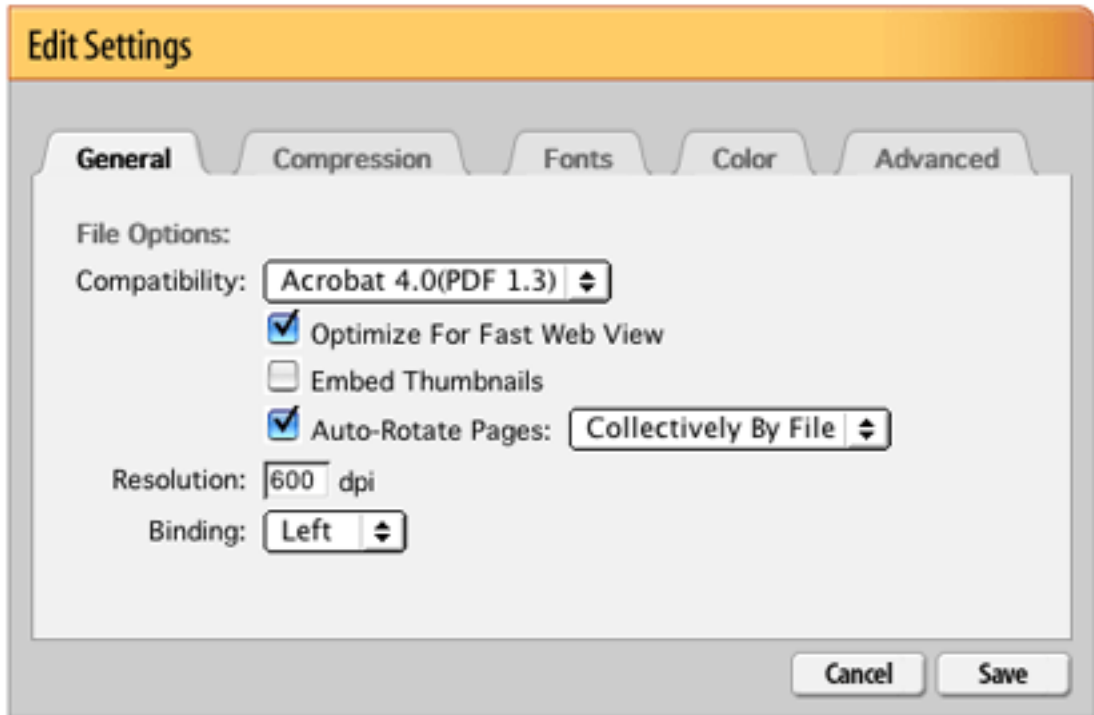
E-mail me my new PDF as an attachment

Cancel Create PDF!

This is the basic window for selecting either the default conversion settings or one which a user has previously saved.

To use Create Adobe PDF Online, simply browse to a file to convert, choose your settings (and whether to convert the whole document or a sequential range of pages, such as pages 4–12), and click Create PDF. Adobe says files up to 5 MB in size usually are processed within 2 minutes. When the conversion is done you may opt to receive an e-mailed link to the file, to have the file e-mailed to you as an attachment, to wait for the

conversion and download the file immediately, or to skip notification altogether and have the file wait for you to retrieve it from an online holding bin. Whichever option you choose, the file will be available for up to 72 hours.



One of the screens for adjusting settings.



The Fonts tab of previous window.

You may convert as many files as you like, but the service caps file sizes at 100 MB and limits processing to 15 minutes per file (10 minutes for trial members). A Paper Capture document is limited to 100 pages. If your project breaks the limits, document processing fails and you are notified by e-mail. Adobe suggests solving the problem by splitting the project into several parts or converting the original into PostScript before submitting it again. Realistically, most users are not likely to get close to the size and processing limits.

Unfortunately, either by oversight or design, Create Adobe PDF Online cannot batch-process incoming documents—a big annoyance. The service will happily churn away on as many files as you like, but you can add them to the queue for processing and retrieve them only one at a time. I recently converted 23 Word documents in a session, and while I had no complaints with the results, getting there was tedious because I had to set the options for each file.

A suspicious mind would suggest that removing this speed bump could make Adobe's online PDF service wildly popular and that's not necessarily a good thing. It could hurt Acrobat software sales and, more likely, lead to prohibitively high Web infrastructure costs to keep up with the demand. The money is in catering to the occasional user who might not buy the boxed Acrobat software or who uses the service out of the office. There's nothing to gain by having the online service cater to bandwidth-hogging, heavy-duty users. Let them buy the box. But, as the lawyers say, all this is just speculation.

Create Adobe PDF's other potential speed bump is the speed of your Internet connection. If you are working with big files, a broadband hookup is a necessity; fast processing isn't much help if it takes forever to send and receive the documents.

The Adobe Web service also can turn a Web site into a PDF, but it does not support JavaScript or Cascading Style Sheets (CSS), two increasingly common Web site elements. Compare that with version 5 of Acrobat for the Mac which *will* convert CSS and offers partial support for JavaScript; version 6 appears to be even more compatible. If converting Web pages is a requirement of your workflow, the Web service is not for you. But keep an eye out for a likely upgrade.

Keep security in mind when using Create Adobe PDF. Do you really want to send a sensitive document into the ether without knowing who might see it? Probably not. Still, if you're making PDFs of sensitive documents the old fashioned way, Acrobat passwords notwithstanding, you're already dancing with the Devil.

For the light or occasional user, Create Adobe PDF Online is a terrific and very affordable resource. And for freelancers who never know where they are headed next, the service can pay off in unexpected ways.

An assignment recently had me working in an all-PC environment converting Word files into PDFs. One file simply refused to convert properly; in each of many tries, a graphic was put in the wrong place. Finally, frustrated, I uploaded the file to Adobe's Web service. It was back in minutes, working fine.

The conversion problem may have been the fault of the PC, or Microsoft, or Acrobat for Windows. There's even the tiniest chance it was my fault, although I much prefer to blame Microsoft. But Create Adobe PDF Online was beyond reproach. It did its job, and a Dell did not plunge from a fourth floor window.

So, there's a downside to everything.

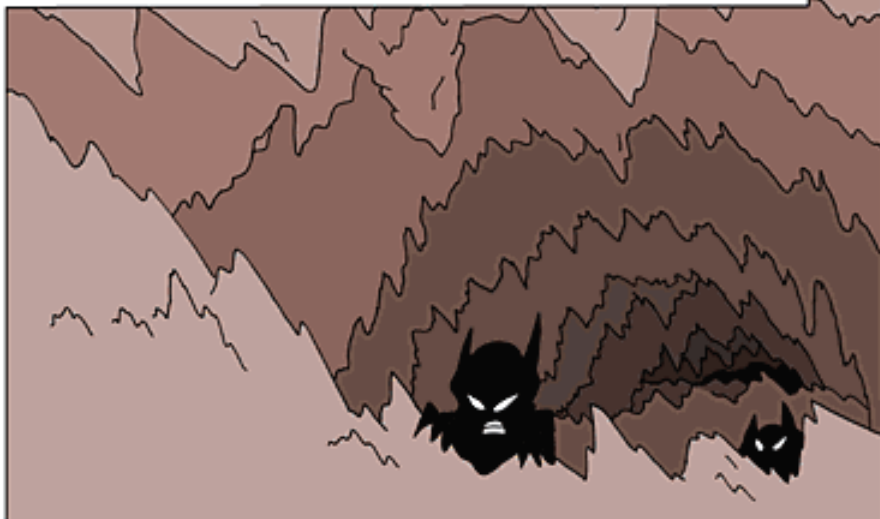
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Cartoon: Cortland

by Matt Johnson, mjohnson@atpm.com

DEEP WITHIN THE BOWELS OF THE EARTH, WHERE SHADOWS LURK AND EVIL DWELLS, IS THE HOME OF A LOATHSOME CREATURE.



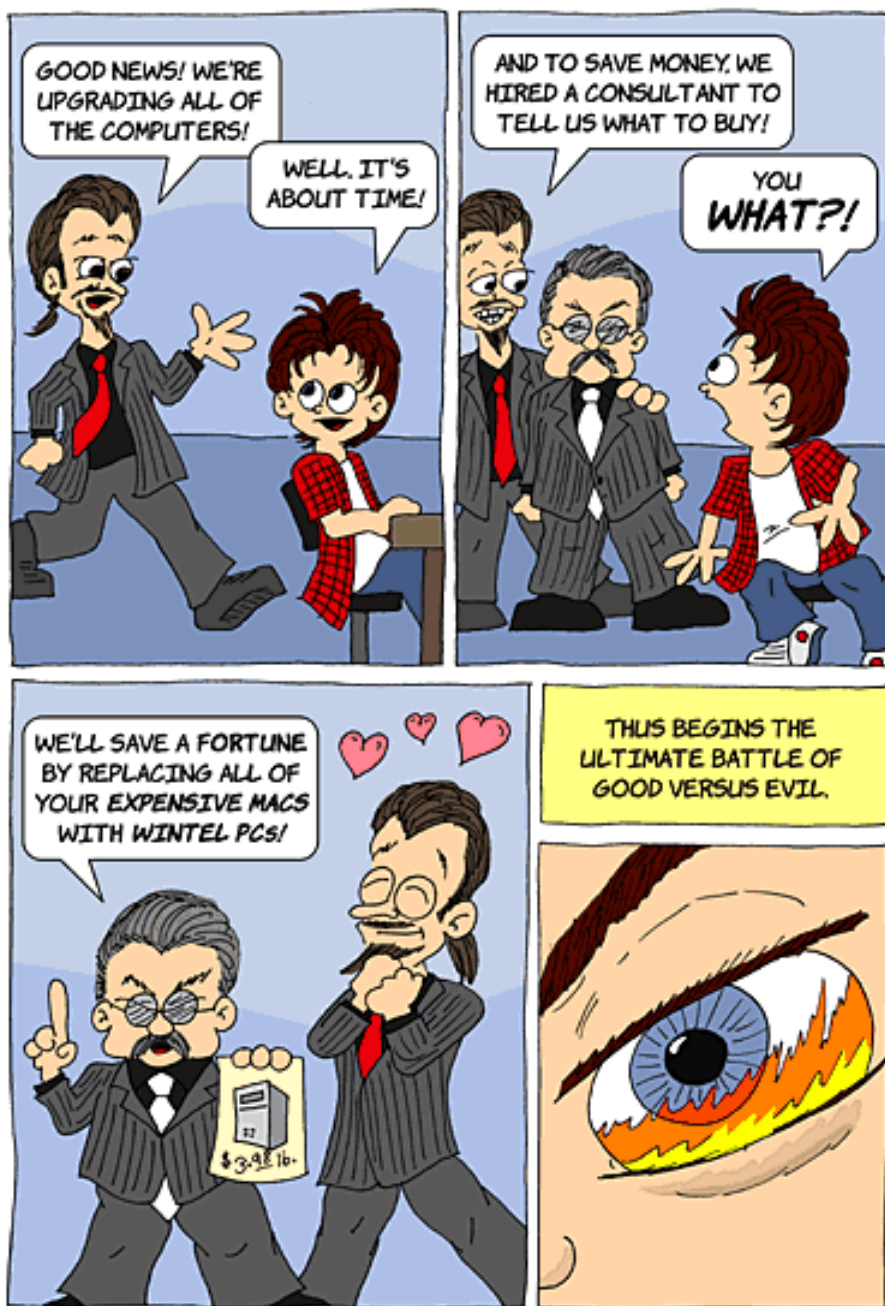
THE SERVANT OF A DARK LORD WHOSE NAME IS LONG FORGOTTEN. A BEING KNOWN ONLY AS "IT."



THAT'S "I.T." INFORMATION TECHNOLOGY.

AND I PREFER TO BE CALLED A "CONSULTANT."





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Flowers—Part 3

Flowers—Part 3

The pictures presented here are courtesy of [Jens Grabenstein](#). They were taken in June 2002 on a two-week road trip through California starting from San Francisco. The images reflect the cultural and natural diversity of this beautiful state.

Previous Months' Desktop Pictures

Pictures from previous months are listed in the [desktop pictures archives](#).

Downloading all the Pictures at Once

iCab and Interarchy (formerly Anarchie) can download an entire set of desktop pictures at once. In iCab, use the Download command to download “Get all files in same path.” In Interarchy, use HTTP Mirror feature.

Contributing Your Own Desktop Pictures

If you have a picture, whether a small series or just one fabulous or funny shot, feel free to send it to editor@atpm.com and we'll consider publishing it in next month's issue. Have a regular print but no scanner? Don't worry. E-mail us, and we tell you where to send it so we can scan it for you. Note that we cannot return the original print, so send us a copy.

Placing Desktop Pictures

Mac OS X 10.1.x and 10.2.x

Choose “System Preferences...” from the Apple menu and click the Desktop button. With the popup menu, select the desktop pictures folder you want to use.

You can also use the pictures with Mac OS X's built-in screen saver. Choose "System Preferences..." from the Apple menu. Click the Screen Saver (10.1.x) or Screen Effects (10.2.x) button. Then click on Custom Slide Show in the list of screen savers. If you put the ATPM pictures in your Pictures folder, you're all set. Otherwise, click Configure to tell the screen saver which pictures to use.

Mac OS X 10.0.x

Switch to the Finder. Choose "Preferences..." from the "Finder" menu. Click on the "Select Picture..." button on the right. In the Open Panel, select the desktop picture you want to use. The panel defaults to your "~/Library/Desktop Pictures" folder. Close the "Finder Preferences" window when you are done.

Mac OS 8.5–9.x

Go to the Appearance control panel. Click on the "Desktop" tab at the top of the window. Press the "Place Picture..." button in the bottom right corner, then select the desired image. By default, it will show you the images in the "Desktop Pictures" subfolder of your "Appearance" folder in the System Folder, however you can select images from anywhere on your hard disk.

After you select the desired image file and press "Choose," a preview will appear in the Appearance window. The "Position Automatically" selection is usually fine. You can play with the settings to see if you like the others better. You will see the result in the little preview screen.

Once you are satisfied with the selection, click on "Set Desktop" in the lower right corner of the window. That's it! Should you ever want to get rid of it, just go to the desktop settings again and press "Remove Picture."

Mac OS 8.0 and 8.1

Go to the "Desktop Patterns" control panel. Click on "Desktop Pictures" in the list on the left of the window, and follow steps similar to the ones above.

Random Desktop Pictures

If you drag a folder of pictures onto the miniature desktop in the Appearance or Desktop Pictures control panel, your Mac will choose one from the folder at random when it starts up.

DeskPicture

An alternative to Mac OS's Appearance control panel is Pierce Software's DeskPicture, [reviewed](#) in issue 5.10 and available for [download](#).



Review: Google Hacks (book)

by Kirk McElhearn, kmcelhearn@atpm.com

Author: Tara Calishain and Rael Dornfest; published by [O'Reilly](#).

Price: \$24.95

Trial: Some [sample hacks](#).



As many Web users know, Google is the ultimate search engine. With the largest number of pages indexed and one of the fastest interfaces, Google is the search engine of choice for most serious Web searchers. I personally use it dozens of times a day, and only rarely use other search engines. Google offers powerful search syntax, cached pages, a directory, newsgroup searches, and the recent Google News service, which has quickly become one of the Internet's most essential sites. Unlike most other search engines, Google is not a portal; if you want to search Yahoo, you have to suffer its cluttered page layout, irritatingly frequent advertisements and oh-too-many bright colors. In contrast, Google offers a minimalist interface with maximum usefulness.

You can search for a lot of things by just typing a few keywords into a search field, and you'll get useful results. But the real value of any search engine, and especially Google, is doubled when you learn the search syntax, or language, that allows you to refine your searches. The first part of this book begins with the basics of Google searching, and goes on to explain all the fine points of its syntax. You'll learn how to restrict your searches to different types of documents, languages, domains, or dates. You'll discover how to search for certain types of files, such as PDFs, Word files (.doc), PowerPoint files (.ppt) or others. And if you want to hack some HTML, you'll learn how to make your own Google search form to put on your Web site or personal search page.

The bulk of this book, however, is not for casual searchers. Some 200 pages talk about integrating Google searches with more complex tools such as SOAP and Perl, XML, and using the Google Web API with PHP, Java, Python, C#, .NET, and VB.NET. Google's real strength for programmers is the possibility of integrating it into other tools, and fine-tuning the results to provide the highest possible level of pertinence. There are also tips for webmasters, telling them the best way to set up their pages to get better and more targeted rankings.

Programmers and webmasters who want to work with Google and exploit its results will find a wealth of material in this book. Simple Web searchers will also learn to save time and get the most precise results from Google searches. The section on search syntax and the tips for getting the right results are worth far more than the cost of this book in the amount of time you can save and the quality of results you'll get from Google. This is a valuable book, full of useful tips, and one that will enhance anyone's use of Google.

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Review: Pocket Tanks 1.00b

by Dan Boland, dboland@atpm.com

Developer: [Cornerstone TSP Games](#)

Price: \$15.99

Requirements: Mac OS 8.6 or Mac OS X 10.1, 800x600 resolution

Recommended: 233 MHz G3

Trial: Feature-limited (no Deluxe version features)



Whether or not you remember the classic game of warfare called Scorched Earth, you can now enjoy it on your Mac in the form of Pocket Tanks by Cornerstone TSP Games.

While the premise—two tanks shooting at each other—remains the same, there are plenty of options to keep even seasoned veterans interested. The variables you can change include wind, terrain, and explosion size. Although none of these options are revolutionary, Scorched Earth would not be the same without them and Pocket Tanks delivers the goods.

Now for the most important part: the weapons. The freeware version of this game comes supplied with thirty weapons, the vast majority of which are offensive. Each player has ten weapons to choose from out of a randomly selected twenty; the final ten can also optionally be randomly selected. The purpose of the game is to outscore your opponent using the weapons you've chosen.



Weapons Selection Screen

As expected, scoring is based on a combination of the vicinity of the explosion and the power of the weapon. Some weapons are more useful than others, but of the thirty included in the freeware version, only Tracer could be considered completely useless.



Beware the Pineapple!

Pocket Tanks is fun. It is easier to waste away an hour or two with this game than one might think. The graphics and music are solid and appeal to the eye and ear. Strategy buffs will enjoy the closer matches, and explosion fanatics will revel in destroying their buddy's tank.



ATPM Wins Again!

I do however have a few gripes about this game. Even with ten levels of difficulty, I find myself winning at the hardest level nine out of ten times, whether I choose the weapons myself or let the game do it for me. A four-player mode would be nice as well, although I might just be being picky. But if anything, I must stress this: *not everyone will like this game*. Regardless of its features, some people (my fiancée included) will think this game is boring and stupid.

All the Deluxe version offers is thirty extra weapons and the promise of future weapons expansion packs. There are no additional options or harder difficulties. If you think it is worth the money, then by all means, update to the Deluxe version; I, on the other hand, have plenty of fun playing the free version.

For those who love Scorched Earth, Pocket Tanks is a version worthy of your time. Although I don't think the Deluxe version is worth the money, the freeware version makes a terrific download.

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Review: SPSS 11.0

by David A. Zatz, dave@allpar.com

Developer: SPSS, Inc.

Price: \$1,145 (base); maintenance (recommended) starts at \$287; upgrade from SPSS 10 for \$299; upgrade from SPSS 6 for \$499. Academic pricing starts at \$599 (base). Many users will need extra modules. Training manuals (recommended) are around \$100 each.

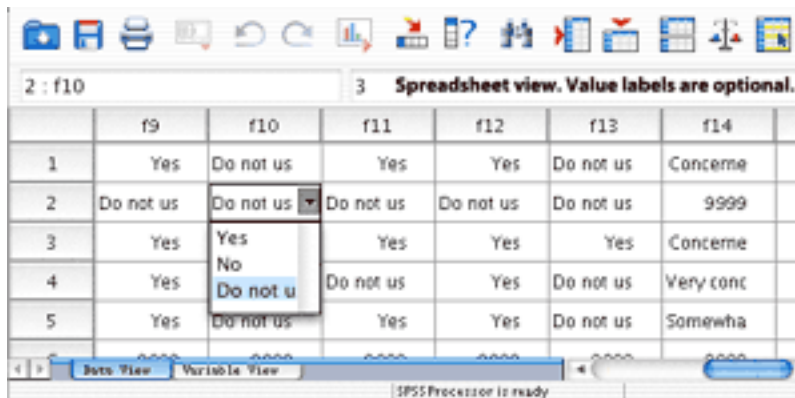
Requirements: G3 with 192 MB RAM, 256 MB of hard disk space, Mac OS X 10.1.2.

Recommended: 500 MHz G4, 256 MB RAM.

Trial: None



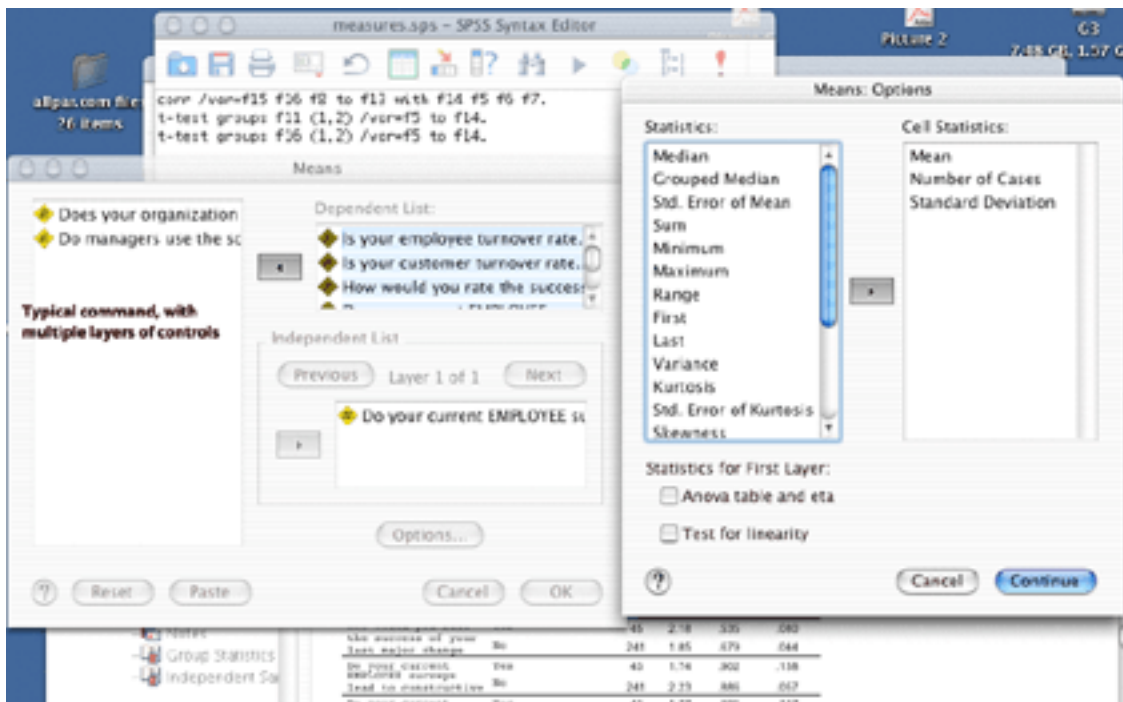
The statistical analysis application SPSS entered the Mac market with a lean, efficient, syntax-driven program. Version 4 would let you use menus, but those menus would simply build syntax on the screen, helping users to use the powerful program as efficiently as possible. It had many deficiencies—among other things, it produced its results in a mainframe-style monospaced font—but it ran rather quickly on a Mac Plus, and helped beginners get used to the SPSS syntax language.



Unfortunately, after a disastrously bad port of version 6—which switched to a more modern menu-driven system, with syntax “also” available—SPSS abandoned its Mac customers.

Then, about two years ago, SPSS contracted with [MacKiev](#) to port version 10 over to the Mac. The result was a program with the capabilities of the Windows version, including a wide variety of plug-in modules and good speed. Now, version 11 has been ported over—but only to OS X. If you use OS 9, you must stay with version 10. But those who recently purchased new computers, only to find they cannot boot into OS 9—and that SPSS 10 won't work in the Classic environment—will be very happy about the new release.

As with prior versions, as you slice, dice, and weight data, and pop out scatterplots using the built-in menus, SPSS automatically records your syntax into a “journal,” which you can later modify as a kind of macro to quickly run lots of analyses very quickly. I recommend buying the optional syntax guide and typing your commands as often as you can, instead of using the menus. Using SPSS becomes much, much faster that way.



Most of SPSS' capabilities remain from [version 10](#), and I will refer you to that article rather than going back through them.

As with version 10, the major drawback to the program is a long boot time. Version 10 booted in 30 seconds on my beige G3, despite an upgraded hard drive and processor. Version 11 takes 45 seconds on my blue and white G3, with an upgraded hard drive and 400 MHz G4 processor. No doubt it's considerably faster on more modern models. While screen redraws are very sluggish on older machines, calculations are tolerably quick. I suspect the part of the program that actually does the work uses only highly optimized (and probably very old in many cases) code, while the user interface was developed with less concern for processor time. SPSS' Windows origins are otherwise hidden. It looks and acts like a real Mac program, using standard OS routines.

The data, output, and syntax views all have different sets of menus, as they do in Windows: for example, you have to be in the data window before you can use a menu to split the file. This can be annoying, but it does keep the menus to a manageable size.

SPSS has done a wonderful job of maintaining the syntax through all Mac and Windows versions, so that files written for older versions work without a hitch. The data format is also compatible without conversion across versions and platforms, making it easy to share data and scripts with Windows people or users of older Macs. Data is stored in a highly compressed format, in a break from Microsoft's norms of oversized files, but matching SPSS' mainframe heritage. There are only two major issues with compatibility: SPSS 11 for Windows output files cannot be shared with SPSS 10 (or earlier versions) for the Mac, and SPSS' scripting language (not to be confused with syntax!) was not ported over, since SPSS 11 can now use AppleScript.

SPSS 11, like prior versions, also reads tab-delimited and fixed-format ASCII text and Excel files. Output files can be saved as HTML for posting on the Web. SPSS also sells programs that allow other people to view the results and delve deeper into the data.

SPSS also deserves credit for porting over just about all the modules available under Windows, so Mac users aren't faced with overpriced crippleware. Indeed, the prices match the Windows versions, despite porting costs. The main deficiencies of the Mac version, compared with Windows, are being one-half version behind (Windows is up to 11.5); missing features include not being able to directly import SAS files, the loss of the Method subcommand of Crosstabs, and three subcommands of nonparametric tests (both of the latter are missing from the optional Exact Tests module).

New features include direct publication to the SmartViewer Web Server, an extra-cost option that allows quick and easy dissemination of results throughout an organization (or to the world). Data can now be restructured so multiple cases can form a single case, or vice versa, which will save some researchers incredible amounts of time and nuisance. A database wizard can recode string values to numeric variables, obtain random samples, and do other clever, time-saving tasks that once required workarounds or other software. Other clever features for quickly rearranging data, such as the innovative pivot controls, remain.

The screenshot displays the SPSS Output Viewer interface. The main window shows a table titled "All Respondents" with the following data:

	not satisfied at all	not very satisfied	somewhat dissatisfied	neutral	somewhat satisfied
e of belonging here.	4%	6%	7%	24%	17%
an individual.	5%	7%	9%	17%	20%
n the vocational/technical					21%
registration are helpful.					17%
approachable.					18%
available for most students.					15%
times that are convenient for					16%
periences are provided in my					20%
ailable on campus.					10%
ckly in emergencies.					17%
s me set goals to work					18%
nnounced to students in time					13%
vices are adequate.					21%

Overlaid on the table is the "Pivoting Trays1" dialog box, which shows a visual representation of a pivot table structure with "Layers", "Columns", and "Rows" sections. Below the table, a portion of the SPSS syntax is visible:

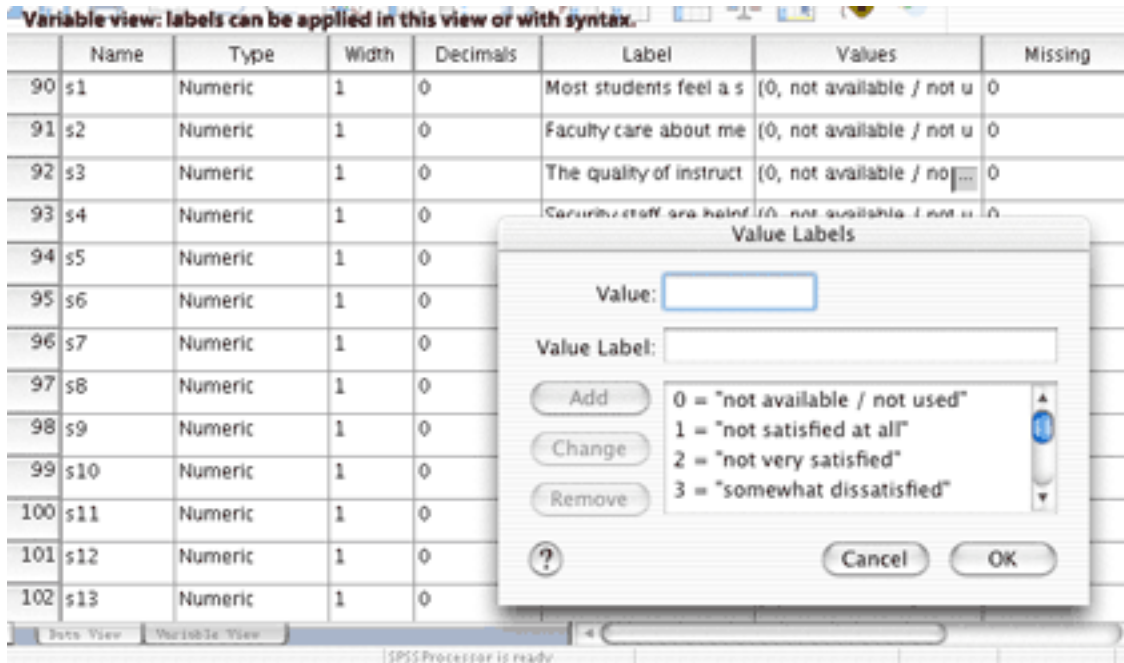
```

/FORMAT BLANK MISSING( . ) /TABLES
( s1+s2+s3+s4+s5+s6+s7+s8+s9+s10+s11+s12+s13+s14+s15+
/STATISTICS
CPCT ((PCT7.0) '%') /TITLE 'All Respondents'.

```

The optional and very handy Reports module now produces modern output, with tab-delimited tables instead of the old monospaced fonts. It's still only camera-ready if you're not very particular, but it's much better than in the past, and individual tables can quickly be modified for acceptable results. The Reports module can save a great deal of time when, for example, analyzing survey data. This and the Advanced Statistics modules are almost "must-haves."

The OLAP cubes facility has been upgraded to allow calculation of differences between variables. Those who hate scientific notation will be glad to know it can now be suppressed in all output. This upgrade does not just deal with system software and appearance issues; a number of statistical upgrades were also made. These can be explored fully on SPSS' Web site, and may affect a surprisingly large number of users.



Most people will probably export SPSS tables and charts to other programs for publication, usually by copying and pasting to the other application, but SPSS 11's tweak to output tables—adjusting the column width to match output—makes it easier to simply save output as PDF (or HTML) and use it without modification. This may be the greatest time-saver of the new version for some people.

While SPSS seemed stable on my system, an early blue and white Power Mac with only 448 MB of RAM and a 400 MHz G4 upgrade, I did experience a corrupted preferences folder which required re-installation (resetting permissions did not help), and the program seemed to lock the Command key down at times. Syntax pasted in from the Classic Scrapbook did not work properly and had to be retyped, though syntax from older versions ran well when opened normally. In extended testing, SPSS sometimes crashed when being closed, and some parts of the output sometimes refused to use certain fonts.

SPSS 11 makes it easy to take heavy-duty statistics into the world of OS X. The fact that SPSS 10 and 11 are mutually exclusive also makes it easy to decide on upgrading—if you stay in OS 9, you cannot use SPSS 11, and if you move to X, you have to.

Because SPSS has such a slow interface, I strongly recommend that you do not use it with older machines or less powerful laptops. A 700 MHz G4 or above is just about required for tolerable speed, and a faster processor is really needed to make the program enjoyable in everyday use. If that means staying with OS 9, it may just be worth it to keep the relatively snappiness of SPSS 10. Version 11 does not add enough new features to justify an upgrade for many users (except, as noted, for OS X compatibility, which is downright needed for those with machines that won't boot into 9).

SPSS 11 is capable, fairly user-friendly, and easier to work with than previous versions. The number crunching is very fast, and the reports increasingly easy to use in presentations and articles. It is no small wonder that SPSS 11 is still the market leader in professional statistical analysis.

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Review: Ten Thumbs Typing Tutor 2.2.2

by Gregory Tetrault, gtetrault@atpm.com

Developer: [Runtime Revolution](#)

Price: \$25.95

Requirements: Power Mac with System 7.1 or Mac OS X 10.1.3; 16 MB of application RAM; 800 x 600 resolution with 256 colors.

Recommended: Mac OS 8.0; QuickTime 4.0 (to play background music).

Trial: Fully-featured (10 days)

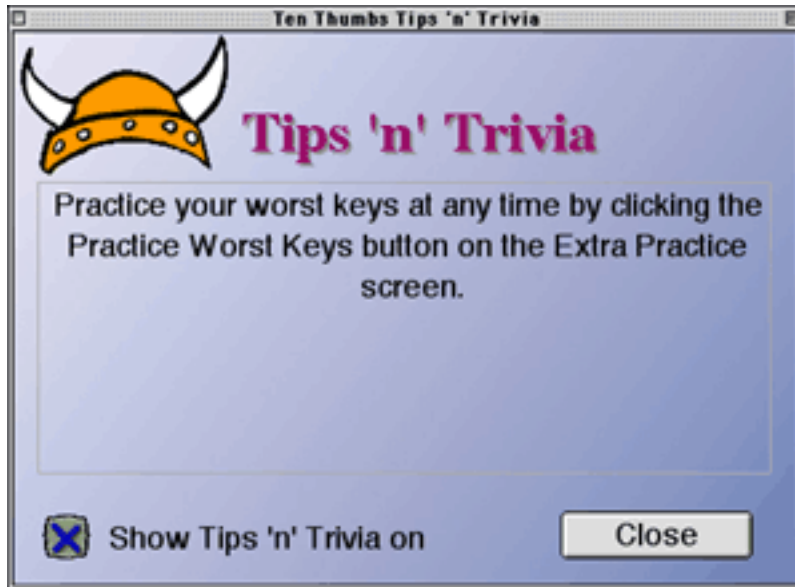


Overview

Ten Thumbs Typing Tutor is designed to teach novices how to type and to help intermediate to advanced typists type with greater speed and accuracy. It uses a combination of structured lessons and typing games to achieve those goals.

Installation and Setup

The download file is a StuffIt archive of the Ten Thumbs Typing Tutor folder. After decompression, the application is ready for immediate use. When you launch Ten Thumbs Typing Tutor for the first time, you are asked to register. If you do not register, the program will function for only ten days. You will also encounter a window displaying a “Tips ‘n’ Trivia” window.



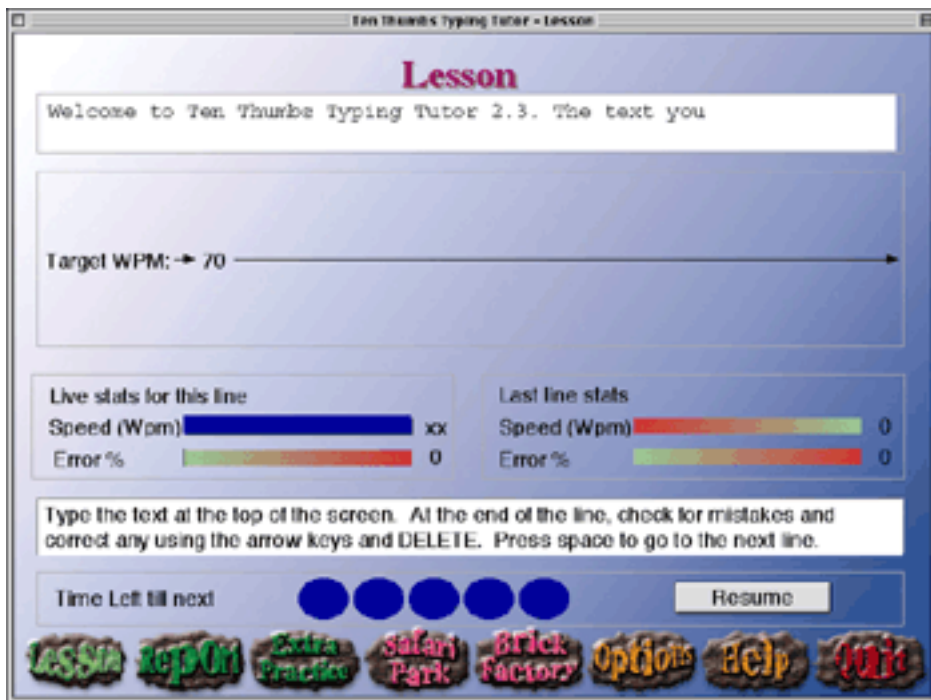
Tips window with option to hide.

You can avoid this by unchecking the box in the lower left corner. You next see a log-in screen for identifying yourself. Ten Thumbs Typing Tutor allows multiple users per computer. After you identify yourself, Ten Thumbs Typing Tutor presents a “quiz” which asks about your typing goals and your preferences. You can answer the questions on each screen or you can skip sections. You can choose either QWERTY or Dvorak keyboard layouts. Once you have finished the setup quiz, Ten Thumbs Typing Tutor proceeds with the first lesson.

Using Ten Thumbs Typing Tutor

Ten Thumbs Typing Tutor has one main window. Choices (seven program areas plus Quit) appear as eight buttons at the bottom of the window. Ten Thumbs Typing Tutor opens with a structured lesson. The lessons are based on information provided during the setup

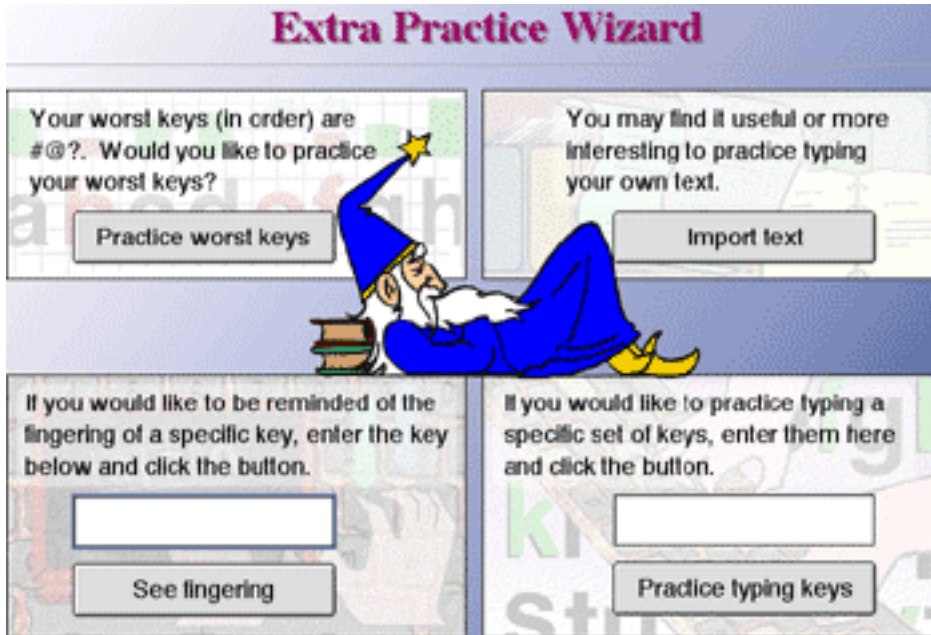
“quiz” and on performance in previous lessons. Lesson screens contain a block of text to type at the top and information about your typing performance below. For novices, the displayed information is a map of the keyboard. For more advanced users, graphs of the overall speed and error rate and last line speed and error rate are displayed. The timer starts with the first key you type. When you finish typing a line (by pressing the spacebar after typing the last visible character), a new line appears. There is no option for scrolling text. Ten Thumbs Typing Tutor will give visible (red text) and audible (beep) clues for each mistyped character if you selected those options during the setup “quiz.” The lesson will not progress until you correct all errors in the displayed line. There is no option that allows you to continue without correcting errors.



Main window with Lesson showing.

Extra Practice offers four options: “Practice worst keys” (based on your previous results), “Import text,” “See fingering” (shows fingering for a single key), and “Practice typing keys” (that you choose). “Practice worst keys” creates random strings of characters. For example, my worst keys were @, #, and ?. Thus, my practice lines looked like this: @@##? @?@ ##@@ @??#. “Import text” lets you select any file. Ten Thumbs Typing Tutor strips out non-printing and non-standard characters and then displays the resulting text line by

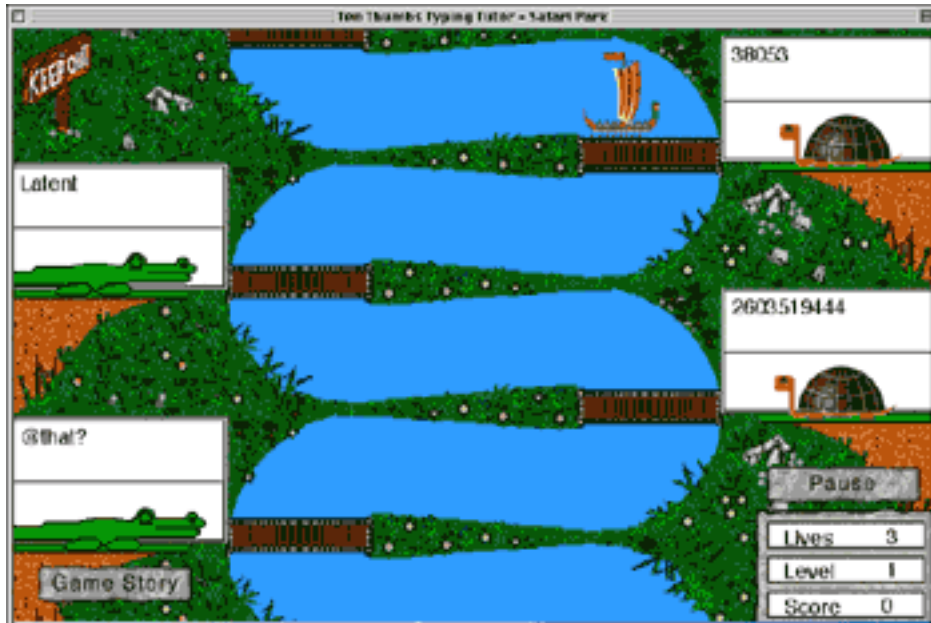
line (just like the lessons). The practice session ends when you reach the end of the imported text. "Show fingering" shows hand and finger placements for typing a character. Placement includes the use of the Shift key when relevant. "Practice typing keys" is the same as "Practice worst keys" and consists of random clusterings of the characters you chose.



Extra Practice

The Safari Park game has a boat being rowed and sailed down a meandering river. There are four bridges that will block the boat unless you correctly type the characters in the turtle or alligator boxes. At higher levels, the boat moves faster. At lower levels, the game is incredibly boring. Even if you complete all the typing in a few seconds, you have to wait

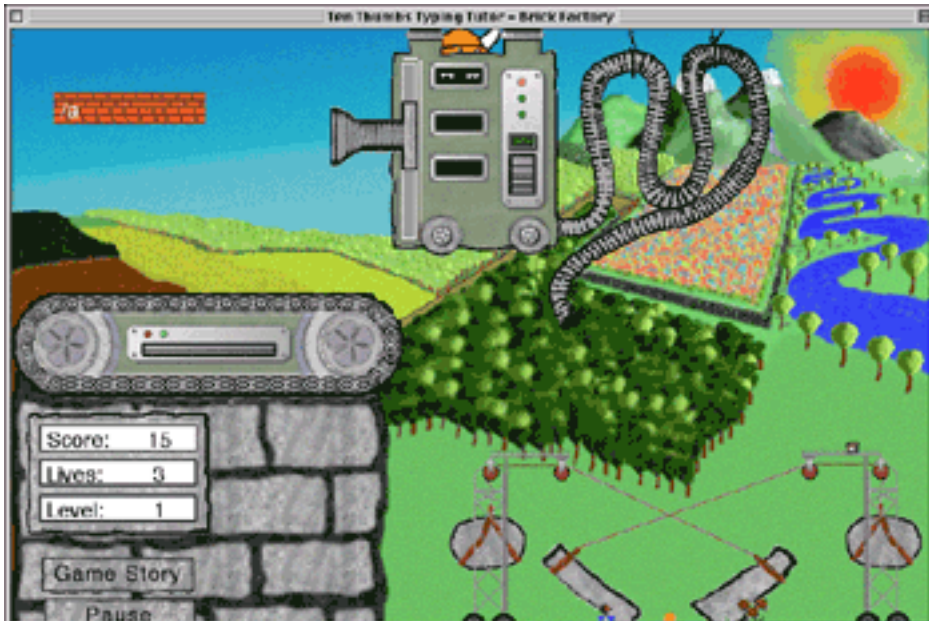
for the boat to slowly wend its way across the bottom of the screen. Ten Thumbs Typing Tutor does not remember the last level you achieved, and there is no way to start at a higher level. You also have no control over the characters to be typed.



Safari Park

The Brick Factory game has character-containing bricks falling on the left side of the screen. If you correctly type all the characters, the brick is sucked into the machine to the right. If you fail to type the characters quickly enough, the brick lands on a conveyor belt and is discarded onto a pile. When the pile gets too high, it falls over and you lose a life.

Brick Factory makes little sense. Even at the lowest level, a brick can contain up to 12 characters. Other bricks may have only two characters. Character strings are usually words, words plus punctuation, or number strings.



Brick Factory

The Options window gives only three options related to the background (black or off) and to music and sound. To change other characteristics of the program, you must retake the setup "quiz." I found this to be a cumbersome and annoying process.



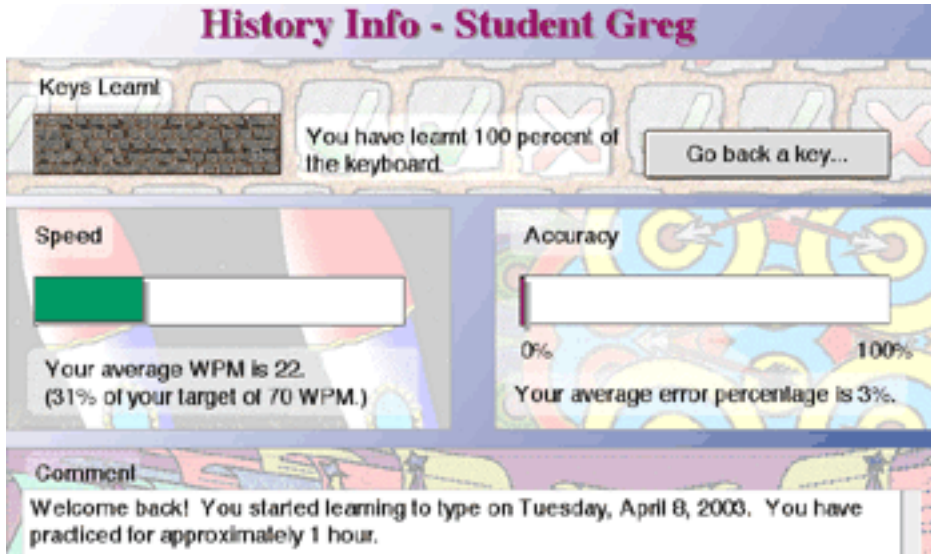
Help

The Help window contains a list of seven topics in an upper window and information on the selected topic in a lower window. I found this section unhelpful.



Report window immediately after completing a lesson.

The Report window summarizes the results of your last lesson or activity. There is no way to review previous reports. The Report window has a different format if the button is clicked immediately after launching (or logging in as a new student) Ten Thumbs Typing Tutor. This “Student History” report summarizes overall progress.



Progress report for a student.

Problems and Bugs

I crashed while playing Brick Factory when I accidentally pressed the Return key. The crash required a forced restart under OS 9.

The ReadMe file warns that you should not change monitor resolutions while the program is open.

Omissions

The biggest omission is that Ten Thumbs Typing Tutor does not follow Macintosh interface guidelines. This program feels like a crude port from a Windows version. It does not use Macintosh menus or dialog boxes.

Ten Thumbs Typing Tutor does not offer any typing tests (separate from lessons or imported text). Other omissions are mentioned in the “Using Ten Thumbs Typing Tutor” section.

Documentation

Ten Thumbs Typing Tutor comes with a short ReadMe text file. No other documentation (except for the meager contents of the Help window) is available.

Technical Support

E-mail support and fax support are available. There is no live telephone or online support. I did not test the rapidity or accuracy of e-mail support.

Alternatives

[Mavis Beacon Teaches Typing version 9](#) is available for \$20 from Broderbund (North America) or from Mindscape (Europe, Asia, Latin America). Mavis Beacon Teaches Typing is far more polished and complete than Ten Thumbs Typing Tutor. I have used an older version for years and recommend it highly.

Typing Tutor 10 (Pearson Software) is no longer published but is still being distributed by many vendors (including Amazon.com). It sells for around \$20. I haven’t used it, but it got very good customer reviews on Amazon.com.

Disney’s Adventures in Typing with Timon & Pumbaa (Disney Interactive) also is no longer published but is still available. It sells for around \$10. It is designed for young novice typists. My daughter used it last year (when she was eight years old) and liked it.

[Roller Typing](#) (Edventure Softare) uses the sport of rollerblading as a theme for typing skill games. It lists for \$30, but its street price is around \$25.

[Jumpstart Typing](#) from Knowledge Adventures (distributed by Vivendi Universal Games) is part of the Jumpstart educational software series. It is designed for children in grades 3–5. It is available from Amazon.com for \$10. A new version, Jumpstart Typing 2003, will be available in June for \$20.

Summary

Ten Thumbs Typing Tutor feels like a crude port of a mediocre Windows program. It is functional, but other programs are much better and often cost less.

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Review: TiVo Home Media Option

by Eric Blair, eblair@atpm.com

Developer: [TiVo, Inc.](#)

Price: \$99 (first TiVo in household); \$49 (additional TiVos in household)

Requirements: 400 MHz G3, TiVo Series2 DVR, USB Network Adapter, Mac OS X 10.2, iTunes 3.0.1, iPhoto 2.0, home network.

Trial: Fully-featured (30 Days)



It seems like members of the press and the computer industry have been talking about the convergence of computers and home entertainment systems for years. When the topic comes up, somebody almost always wants to tell you how computers will move into the living room. However, just about every attempt to put a computer in the living room has been a miserable failure. There are numerous reasons why these devices have failed, but the basic lesson is that computers and televisions haven't played well together.

Within the past two years, the number of people with home networks has increased dramatically. Some companies have realized that, thanks to networking, you can put your computer wherever you want it and still reap many of its benefits. Given the popularity of MP3s, it's not surprising that many of these products are designed to connect your computer to your stereo system.

[TiVo](#), the maker of digital video recorders that people either adore or know nothing about, has entered the world of home networking. Their Home Media Option is more than just an MP3 player in the living room—it also lets you view photos on your computer, share recordings among other TiVos in your house, and schedule recordings over the Internet.

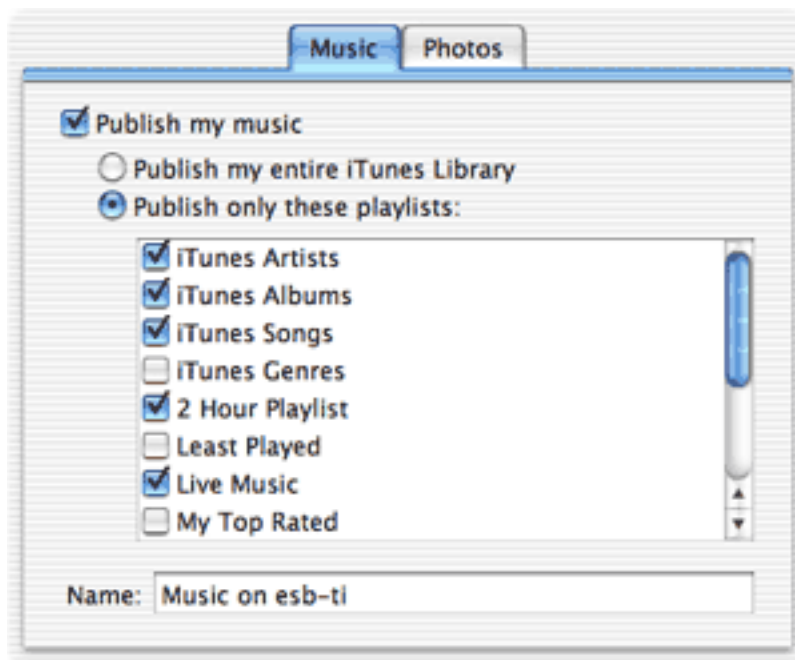
This review will focus mostly on the Digital Photos and Digital Music portions of the Home Media Option.

Setup

I wasn't really sure what to expect when I tried to configure my TiVo for use in my existing network. One of TiVo's selling points is that it's simple to use. However, many of TiVo's subscribers are the sort of people who want to control every aspect of their home network.

TiVo seems to have both ends of the spectrum with their configuration options. If you just want to plug in and go, your TiVo can automatically select the appropriate configuration options via either DHCP or BootP. If you want total control, you can specify all the network settings. I chose the latter option and was presented with a series of easily-understandable configuration screens. When I entered a typo that would have prevented the TiVo from connecting to the network, a warning message was displayed and I could not continue until I fixed the error.

To make your Mac share its music and photos with your TiVo, you need to install [TiVo Desktop](#). TiVo Desktop is a Preference Pane that reads both your iPhoto and iTunes libraries to determine what sort of media you have on your computer. It also sees your iTunes playlists and your iPhoto albums, so you can choose to share only portions of you libraries.



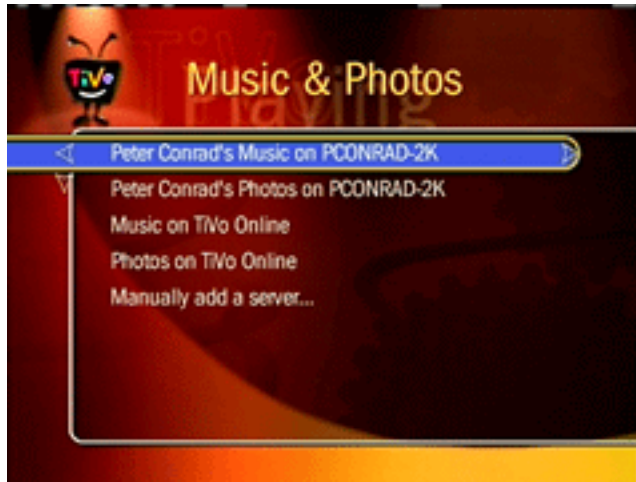
Sharing some of your iTunes Playlists.

Honestly, the functionality of TiVo Desktop sounds like it belongs in the Sharing Preference pane, but I'm not certain if Apple allows third-party developers to add entries to the list of services.

Although this all sounds straight-forward, I hit a major snag during my initial setup—my TiVo just did not see my Mac. It turns out this was due to having turned on OS X's built-in firewall, and made worse by the fact that TiVo did not have its Macintosh documentation complete when it released the Home Media Option. Currently, the documentation is available and the answer to this problem is [basically](#) to open ports 8101, 8102, and 8200 on your firewall. If you don't understand what this means, don't worry—the new documentation does a very good job of explaining it.

Interface

After you purchase the Home Media Option, an appropriately named Music & Photos option appears in your TiVo Central menu. When you select this option, you see a list of all the people sharing music and photos via TiVo Desktop on your network.



See who's sharing music and pictures on your network.

Music

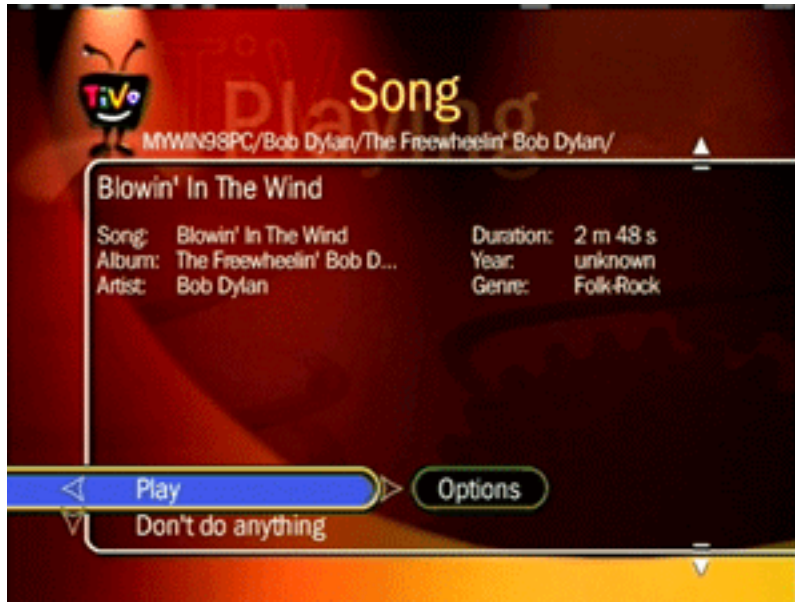
The Music screen shows you every playlist you've elected to share in the TiVo Desktop Preference Pane. Additionally, iTunes creates four "playlists" of its own that you can choose to share with your TiVo: iTunes Artists, iTunes Albums, iTunes Genres, and iTunes Songs.

These four “playlists” show up as folders in the Music screen. The first three contain sub-folders for each artist, album, or genre, respectively. iTunes generates these groupings from the ID3 tags associated with each of your MP3s, so you should make sure the information in your music library is correct to use the Home Media Option to its fullest. The fourth list displays all of the songs you are sharing.

Playlists behave as you would expect—whatever songs you have in the playlist in iTunes are in the playlist on your TiVo. TiVo also supports both normal and Smart playlists, though it cannot update Smart playlists. From the Music menus and playlists, you can either listen to a particular song or listen to a whole playlist by pressing Play on your remote when you highlight a playlist or folder.

Listening to music is a fairly straightforward affair. Your options are limited to shuffling your music, repeating your music, and whether or not you should play any sub-folder in your current playlist. While you are listening to music, your TiVo will either display a blank screen or some textual information about the currently-playing song. You can move around within the song with the fast-forward and rewind buttons on your remote and

advance to the next song with the Channel button. Additionally, your TiVo can also display some basic information about songs from the menu system, assuming your ID3 tags are correct.



Getting information about a song.

Photos

The Photo menu works somewhat differently from just about any other function in the TiVo. Instead of items running down the left side of the screen, your screen is broken down into a 4 x3 grid. Each entry in the grid can contain an item from your photo collection, along with a preview.



Previewing a number of jellyfish photos.

In theory, this lets you easily see all the pictures on your computer while staying within the menu system. Since the Home Media Option gets your photo albums from iPhoto, though, the first Photo menu contains nothing but folders representing the different photo albums. I suspect the Photo menu system was designed this way for Windows users, since Windows uses completely different methods to organize pictures.

On the bright side, TiVo determines the name of the pictures based on the titles set in iPhoto as opposed to the seemingly random names your digital camera assigns to files.

Slide shows work pretty much as you would expect—every photo in the selected album is displayed on the screen for a few seconds at a time. As with listening to music, your slide show options are fairly limited: time per photo, shuffle, and repeat.

In addition to viewing a slide show, you can display a single image or get information about a photo. When getting information about a photo, you can see the date the picture was taken, the date it was imported, and the date it was modified. You can also rotate the picture in 90° increments, if necessary.

When displaying photos on the television, TiVo scales the photo as large as possible without distorting the proportions. If the photo won't scale to the full size of the screen (common with rotated or cropped images), the picture will be displayed with a black border.

Only the Basics

I have essentially the same complaint about both playing music and slide shows: the options are far too basic. Music playback doesn't support any sort of cross-fading. There aren't any transitions when images change during a slide show.

However, my biggest complaint is that you can't mix audio and video. After using the iLife applications, it seems natural to have music playing in the background during a slide show or to have visual effects while listening to music. With the Home Media Option, though, it's one or the other—visually boring music or silent slide shows. Since your TV has both a screen and speakers, the TiVo should be able to use both of them at once.

Also, the Digital Music option is currently limited to playing MP3s. If you have music you've imported into iTunes in the AIFF or WAVE formats, you won't be able to play them on your TiVo. More importantly, this means your TiVo cannot play AAC files ordered from the new iTunes Music Store or encoded by iTunes 4. Fortunately, the Digital Photo option is a bit more forgiving in terms of file formats—it supports JPEGs, GIFs, BMPs, TIFFs, and PNGs.

Beyond Music and Photos

I haven't really touched on Remote Scheduling and Multi-Room Viewing for a few reasons. First, I haven't had a chance to use either feature yet. Second, the behavior of these portions aren't anywhere near as Mac-specific as the Digital Photos and Digital Music features. Finally, I really think that the Digital Photos and Digital Music option are the more important features.

Is It Worth It?

The way I see it, people interested in the Home Media Option will fall into at least one of two categories—people who already own Series2 TiVos, and people who want their digital music and photos accessible from somewhere other than their computers.

If you already own a Series2 TiVo, the Home Media Option presents a significantly less expensive option for accessing your digital music via your entertainment center than its competitors—both the Slim Devices [SLIMP3](#) and the Turtle Beach [AudioTron](#) cost more than \$200 and aren't integrated with iTunes. I looked briefly around the Internet for a stand-alone product that has similar functionality to the Digital Photos portion of the Home Media Option, but wasn't able to find anything.

If you don't already own a Series2 TiVo, the answer isn't as easy. You need to factor in the cost of purchasing a TiVo, either the monthly or lifetime fee for the basic TiVo service, and the cost of the Home Media Option. If you just want either the Digital Photos or Digital Music functionality, there are certainly less expensive ways to accomplish this.

Personally, I already owned a Series2 TiVo with the lifetime service plan before the Home Media Option was announced. Since I was already looking at home entertainment devices, \$99 seemed like a small price to pay when compared to the competing, stand-alone devices.

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Review: World War 2 Online Blitzkrieg

by Joe Kudrna, joek@wt.net

Developer: [Cornered Rat Software](#)

Price: \$34.99; online service costs \$12.99/month with one-month free trial and additional free months for recruiting new players.

Requirements: 800 MHz G4, 512 MB of RAM, 64 MB VRAM, 1 GB free hard disk space, Mac OS X, joystick.

Trial: One month free online, "boot camp" map for unlimited offline practice.



About This Simulation

WW2 Online Blitzkrieg is played online with hundreds of others across the world. Considering its emphasis on detail, it is in more respects a simulation than a game, meaning WW2OL is arguably the first "Massively Multiplayer Combined Arms Cooperative Operation Real Time Simulation" ever.

What separates this war game from all others is its combined arms. It utilizes infantry, tanks, aeroplanes, and ships, and offers the ability to share the operation of a vehicle with another player in a constantly changing strategic environment. This is the most audacious attempt to date at recreating this period of history, and for the most part it has succeeded.

This simulation is set during the 1940 German "Blitzkrieg" across a richly detailed Northern Europe, as French and British forces do their best to stem the tide of the overwhelming German assault. It takes place in a half-scale virtual model of northern Europe. There are huge cities and small villages, connected by roads, rivers, and railroads. The nature of the map offers the option of simply travelling across Europe in an aeroplane or truck, but this will take time. Just to fly to the German border from Dover in England takes an hour and a half in real time!

The object of the game is relatively simple: stop the enemy from capturing territory. The ways of achieving this goal are varied and ever changing. You initially "spawn" in your choice of vehicle or as infantry at your location of choice, do your duty, and if you survive you "spawn out" and receive promotion points. There are dozens of vehicle types and a handful of infantry types available, and you can choose either to join your teammates or to join other groups.

The Germans usually win, upon which point the map is reset, but there is every possibility the Germans could be stalled past the typical two-month game cycle.



A truckload of allies arrives in town, ready for action.

The box contains the game CD, a simple 52-page user manual, and a useful but dated map of Northern Europe. The CD contains additional images and music not found in the downloadable version. The box states some hefty requirements as mentioned above, noting a lack of support for dual-CPU machine configurations, but my experience has shown that it can run quite well on a lesser machine. Cities, aircraft, and heavy action with large groups of players require powerful machines, but if you avoid those you can still have fun using lower end machines.

I have been playing this simulation on my 500 MHz PowerBook G3, with 640 MB RAM and a paltry 8 MB of VRAM. While the game is for the most part playable, a reasonable minimum specification for adequate game play would be a 600 MHz G4 with 512 MB of RAM and 16 MB of VRAM with L3 cache.

It is important to note the L3 requirement, because the G4 iMac, eMac, and new 12" PowerBook which lack this L3 cache perform surprisingly poorly running this game! To use the tanks, big guns, and airplanes, it goes without saying that the game will require a joystick, and a good one at that. Fortunately, quality joysticks retail for as low as \$25.

When using the game's bundled configuration utility, it is best to start with minimum settings and increase over time, starting with the resolution and observing frame rate changes (if the FPS rate is not shown, press the Num Lock key). Higher settings make the environment look better, but may reduce performance. The bottom left '?' button, when clicked, displays detailed descriptions of each of the settings.

There have been a dozen updates to this game since the first Mac version came out (and dozens more on the PC side), but this is the first time I can honestly say it's a Really Good Thing™. There is an amazing and constant effort to improve the game, with user polls conducted and suggestion requests accepted. Since I started playing, the developers have added new effects, new terrain, a dozen more towns, one armored car, three tanks, and *five* new airplanes, pushing the total number of vehicles into three figures. The improvements in version 1.8.4 are substantial. There may already be additional vehicles by the time you read this!



Looking at town from river bridge.

Joining the Squad

With this in mind, it is best to download and use the full game installer from the site (about 99 MB) instead of installing from the CD, which carries version 1.6.8. By default, files install to the "PlayNet" folder within the Applications folder, although this can be changed.

A plug-in for your Web browser is also installed, meaning you should quit your Web browser before installing. As ATPM went to press, this plug-in is incompatible with Apple's Safari browser, and I have only tested it with Internet Explorer.

To create an account, go to the Web site's Account/Getting Started area, enter the CD Key found on the case along with some personal and billing information, and take your time to choose a user name and password you're happy with. You can change your user name at a later stage, but it will cost a little extra. Once you have signed in, you can then choose a squad to join.

Teammates help you play the game, coordinate the missions, and give a sense of familiarity and welcome. The option to play elsewhere or on the opposite side is still there, but once familiarized with the game, joining up will offer great camaraderie. There is a

feature in the "radio" window to instantly chat with specific squad members or an individual. Being a member also gives you posting access to the Forum; Support-Mac is very helpful with questions. There is already a vibrant community of players.



As you gain experience, you gain rank and privileges!

War Games

This game is possibly unique, in that it is launched from a Web browser. On the Web site, choose a side (Allies or Axis), read the news and orders for the day, and then click the Join button. This activates the PlayNet plug-in, which quits your browser and launches the game. Once loaded, you are shown a map of recent activity. Use the map to zoom in on an area or view a list of active missions or attacks that you can join. The entry screen also lets you modify the key map, and view your progress to becoming a general.

Once a mission and vehicle are picked, hit Launch and the game drops you onto the map. Most of the time you will spawn in a relatively quiet area and move to the front line by land, air, or sea; but sometimes you may spawn in the midst of heavy action! Just as in the real war, information is scant, and your on-screen display offers basic health meters, a direction indicator, and a short-range map.

The environment is detailed enough to look impressive. There are day and night cycles, but the transitions happen about four times faster than normal. The game follows the laws of physics, from gravity right down to weapons recoil and the swaying motions of vehicles. You can have accidents; if a truck you are riding hits a bump or a tree, people will be thrown out and injured!

Because there are so many vehicles in the game, there are configuration settings for each class and individual vehicle, as well as settings for up to four different joysticks attached to the same computer, or for four players using the same joystick.

The spawn-in locations are either in the field called "FB," or in a city, called "AB." What is available depends on how active the location is and on your rank (most units are available at Corporal level). From then on it's drive, fly, boat, or just plain *walk* to the action. Of course, you can hitch a ride or be towed by a truck by getting close and jumping on board. While hundreds can be online, there is a limit of 64 for each FB or AB.

The availability of equipment is a deciding factor in most battles. Scoring is based on two factors in defensive missions: how much longer than 10 minutes they last and whether you survive, and (in an attack mission) claiming a kill. This is much easier said than done, as most of the time you are unsuccessful.



RAF out in force, Hurricanes and Blenheims.

Of all the online games I have played this is the most reliable, even over a 56K modem. Lag, when it happens, has almost no impact on ground operations, at most causing movement jerkiness or a rare delay in updates on flags. I was able to test it simultaneously by operating a tank, using two accounts over a high bandwidth connection. There was a consistent 1/4–1/3 second feedback lag between the two, which is very good. Considering that the servers need to keep track of hundreds of objects, including bullets, test for collisions, and then inform each player's computer of movement, hits, or other events, one can begin to come to terms with the quality of this simulation.

A successful hit does take about one second to register on your screen. In that time, a signal of a hit is sent to the server, which passes that information to the opponents' computers. They acknowledge the hit and report damage sustained; this information is passed back to the server, and notice is finally sent back to the shooting players computer, all in the space of that one second. A slow computer with a low frame rate suffers more misses than lag.

Teamwork

The hallmark of this game is cooperation. Two players can share a single vehicle, where one is usually a driver or pilot and the other is a gunner or bomber. Not only can a large gun be operated by two people, but to move it across great distances one needs the assistance of a third player to operate a truck.

In a tank, the driver will select the tank available and request an additional crew member who takes the turret position. It makes for easier spotting of enemies, which is vital for victory, but communication between driver and gunner is tricky. It is easier to be a tail gunner to an aircraft's busy pilot.

The implementation of this feature is refined, functional, and one of the best aspects of this game. A cross-platform communications software called TEAMSPEAK is being used to great effect to help coordinate vehicle operation as well as squad organization.



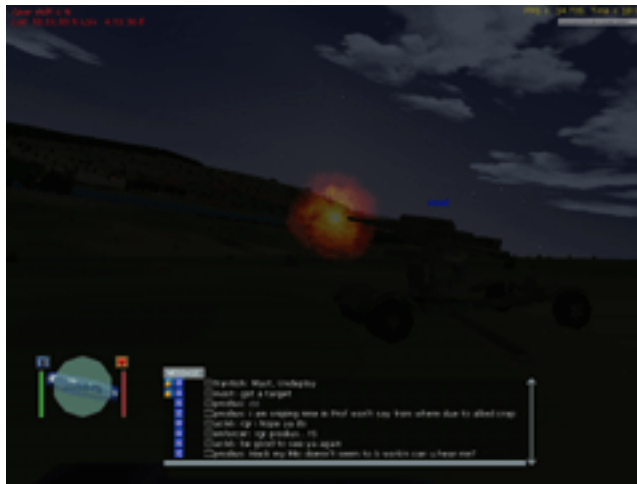
German forces moving out.

Details, Details, Details

The key to a great game or movie is in the details. Once, I spawned into a fighter; while grounded, engine off, I fired its guns to observe the light effects and sound. To my amazement, I started moving backwards! I had not expected the developers to model the recoil on fighter aircraft as they did so well on tanks and guns, but they obviously have, to great effect.

These are not cookie cutter objects in different skins; every vehicle is beautifully modeled and behaves differently, as does the recoil of each weapon. So too are the vulnerabilities of each vehicle. Each vehicle contains fuel, ammunition, oil, power, controls, and of course the crew, so a penetrating round may only damage one or two systems, if indeed it hits anything.

With tanks, a shell may penetrate and ricochet off something inside before hitting a vital item. You can swim across rivers, but make sure you are well rested or you will risk drowning. Running takes away from your stamina, but lying down quickly recovers your breath. Damage is variable, from being stunned, to sustaining light wounds, to being mortally wounded, to dying instantly. Did I mention how beautiful the details are?



An 88mm cannon fires at night.

Bugs and Lags

Sadly, no game is perfect. Yet.

A pitfall of the game bemoaned by many is being locked inside a vehicle. There is no means of escape, even if it means losing the vehicle forever. There is every chance a vehicle is rendered immobile but its occupants survive. Yet they can't get out, and they can't spawn out of the environment, either.

Occasionally damage is ineffectual, or not properly recorded. An aircraft can on rare occasions take a huge number of direct hits and still fly home, if smoking profusely. Tanks have survived a large number of hits and attacks by sappers. The lag time between computers can also make what is a sure-fire hit to you a complete miss. Another source of gripes is damaged targets spawning out early, where the target leaves before being completely destroyed, robbing the victor of full credit for the kill.

The one aspect of the game I did find wanting are the buildings. Large buildings in cities resemble giant boxes on a Hollywood stage set. This is an unavoidable shortcoming in my opinion, as rendering more detailed buildings means more demands on the computer and server. Regardless, there is for each building a ground level and external stairs to the top. There are a few small buildings and churches with internal stairs, but the window frames are annoyingly thick. I saw one building with no upstairs windows.

The bunkers and fortifications in the game are oddly inaccurate. These bunkers are key positions in the game that must be captured; however as a strong defensive building they are anything but that. They are often positioned next to other buildings, trees, or walls that obstruct any defensive fire, and have large openings that offer a direct line of incoming fire. The system is not 100% efficient; objects and walls do not stop all shells or explosions so it is possible to be hit inside a bunker. Overall, bunkers seem to be a hindrance and many players question their purpose.

This game suffers from occasional freezes and application crashes that occur more frequently on modem connections. On a broadband connection, a crash or freeze may on average occur with every 15th spawn-in, but I am usually finished playing before that happens.

I have read some reports of poor performance even with new, high-end Macs. There are a few map bugs, mainly bases that cannot be captured and trees invisible from one side. Lag is generally unnoticeable—unless you are flying, when that short pause may seem to last forever—but other than that it runs very smoothly, considering the hundreds of players online at once.



Going on a river cruise in a small Fairmile patrol boat.

Play Tips

Be patient! If you rush into combat you won't last long. Learn how to operate as many individual vehicles as possible before you rush off to battle. Learn to work in teams, as you cannot capture a town alone. The more familiar you are with your vehicles and maps, the

more successful you are. Truck runs and defense missions are the best route to more promotion points, but remember to despawn at base after a run. You must play the game for more than ten minutes and survive to receive those points.



The cliffs of Dinant.

Last Call

World War 2 Online Blitzkrieg must not be seen as an arcade-style game such as Quake, Medal of Honor, or Unreal. It is a serious combat simulation that can be enjoyed if treated as such, and gives a good historical perspective of what it was like 63 years ago. This game is most recommended for WW2 hobbyists, serious gamers, and those who like simulation games, but it may still be attractive to arcade gamers.

The camaraderie you will find between players is very noticeable, with players trading humorous war stories or boasts. Perhaps some will be perfectly happy just to drive to a hill top, admire the virtual countryside, and listen to the digital birds.

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FAQ: Frequently Asked Questions

What Is ATPM?

About This Particular Macintosh (ATPM) is, among other things, a monthly Internet magazine or “e-zine.” ATPM was created to celebrate the personal computing experience. For us this means the most personal of all personal computers—the Apple Macintosh. About This Particular Macintosh is intended to be about your Macintosh, our Macintoshes, and the creative, personal ideas and experiences of everyone who uses a Mac. We hope that we will continue to be faithful to our mission.

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The **Offline Webzine** is a HTML version of ATPM that is formatted for viewing offline and made available in a Stuffit archive to reduce file size. The graphics, content, and navigation elements are the same as with the Online Webzine, but you can view it without being connected to the Internet. It requires a Web browser.



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What Are Some Tips for Viewing PDFs?

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- You can zoom the PDF to full window width and scroll through articles simply by single-clicking anywhere in the article text (except underlined links).
- You can quickly navigate between articles using the bookmarks pane at the left of the main viewing window.
- For best results on small screens, be sure to hide the bookmarks pane; that way you'll be able to see the entire page width at 100%.
- Try turning Font Smoothing on and off in Acrobat Reader's preferences to see which setting you prefer.
- All blue-underlined links are clickable.
- You can hold down option while hovering over a link to see where it will lead.
- For best results, turn off Acrobat's "Fit to Page" option before printing.

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In the PDF editions of ATPM, links that are double-underlined lead to other pages in the same PDF. Links that are single-underlined will open in your Web browser.

What If I Get Errors Decoding ATPM?

ATPM and MacFixIt readers have reported problems decoding MacBinary files using early versions of StuffIt Expander 5.x. If you encounter problems decoding ATPM, we recommend upgrading to [StuffIt Expander 5.1.4 or later](#).

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the process works is pretty simple. As soon as we have a topic or theme for the upcoming issue we let you know about it. Then, it's up to you. We do not pay for cover art but we are an international publication with a broad readership and we give appropriate credit alongside your work. There's space for an e-mail address and a Web page URL, too. Write to editor@atpm.com for more information.

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How Can I Contribute to ATPM?

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Segments: Slices from the Macintosh Life

This is one of our most successful spaces and one of our favorite places. We think of it as kind of the ATPM "guest room." This is where we will publish that sentimental Macintosh story that you promised yourself you would one day write. It's that special place in ATPM that's specifically designated for your stories. We'd really like to hear from you. Several Segments contributors have gone on to become ATPM columnists. Send your stuff to editor@atpm.com.

Hardware and Software Reviews

ATPM publishes hardware and software reviews. However, we do things in a rather unique way. Techno-jargon can be useful to engineers but is not always a help to most Mac users. We like reviews that inform our readers about how a particular piece of hardware or software will help their Macintosh lives. We want them to know what works, how it may help them in their work, and how enthusiastic they are about recommending it to others. If you have a new piece of hardware or software that you'd like to review, contact our reviews editor at reviews@atpm.com for more information.

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ATPM uses the following ratings (in order from best to worst): Excellent, Very Nice, Good, Okay, Rotten.

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Where Can I Find Back Issues of ATPM?

[Back issues](#) of ATPM, dating since April 1995, are available in DOCMaker stand-alone format. In addition, all issues since ATPM 2.05 (May 1996) are available in HTML format. You can [search](#) all of our back issues.

What If My Question Isn't Answered Above?

We hope by now that you've found what you're looking for (We can't imagine there's something else about ATPM that you'd like to know.). But just in case you've read this far (We appreciate your tenacity.) and still haven't found that little piece of information about ATPM that you came here to find, please feel free to e-mail us at (You guessed it.) editor@atpm.com.

