



GET INFO

November 2003

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Programs:

This month:

Everything iPod and
vitalsource KEY

TimeTable:

- Officers' Meeting (open to all) 4th Monday of each month, 6:30 pm, Golden Corral on Highway 55
- Regular Meeting Schedule:
6-6:30-Socializing, Lobby
6:30-6:45-Announcements
6:45-7:40-Q&A, then Break
7:45-8:40-Program
8:40-8:45-Door Prize Drawing
8:45-until-Off-Site
"Networking" at Location to be announced

Email: editor@tmug.org

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Mac OS X 10.3 Panther

Unleashed by Jeff Carlson <jeffc@tidbits.com>

Mac OS X 10.3 Panther bounded out of its lair over the weekend, giving us the opportunity to start using the shipping version and see how it compares to what was promised by Apple at the Worldwide Developer Conference in June (see "Mac OS X 10.3 Panther Springs at WWDC" in TidBITS-685). Apple has packed numerous improvements into this release, both on the surface and under the hood, and has also finally implemented some old favorites. Is it worth the \$130 upgrade price? Read on for some of the highlights, and decide for yourself. <<http://db.tidbits.com/getbits.acgi?tbart=07242>>

New Finder—The first obvious changes appear in the Finder, which gains the same brushed metal sheen as iTunes and adds the Sidebar, a pane on the left side of every window that provides quick access to volumes and your home directory. If you don't want the Sidebar to occupy as much space, you can drag the separator bar to view as little of the contents as you want, down to just icons. If you drag the bar all the way to the left, or double-click it, the Sidebar disappears. Open and Save dialogs also include the Sidebar, simplifying navigation. <<http://www.apple.com/macosx/features/finder/>>

The Sidebar replaces, in theory, the Favorites window: drag a folder to the Sidebar to add it to the list, or drag items out of the Sidebar to remove them with the same "poof" animation used when removing items from the Dock. However, Favorites isn't completely gone, even if there's no keyboard shortcut or menu item for it. Open the Library folder in your Home directory and drag the Favorites folder to the Sidebar to reclaim your favorites.

Other improvements in the Finder include on-the-fly searching, which displays matching items as you type, the reappearance of Finder labels, and a Windows-inspired interface for switching between open applications: press Command-Tab to select the applications' icons in a row onscreen (Proteron's LiteSwitch X performs the same functionality, and the company posted an "open memo" to Apple this week, drawing attention to Apple's controversial appropriation of third-party technologies in the Mac OS). <<http://www.proteron.com/liteswitchx/openmemo.php>>

Exposé—One surprise at WWDC was the introduction of Exposé (accented at the end and pronounced "ex-po-zay"), an innovative method of unraveling the inevitable tangle of application and Finder windows. When activated by a user-configurable shortcut key, mouse button, or dragging the pointer to a screen corner, Exposé temporarily shrinks and rearranges the windows to make them more visible. Pressing F9 resizes every window so there is no overlap; you can then click the one you want to bring to the front. F10 exposes the front-most application's windows in a similar way and dims the rest of the screen for better contrast. F11 works in the opposite fashion, zipping every window offscreen to reveal the Desktop. <<http://www.apple.com/macosx/features/expose/>>

We were slightly skeptical of Exposé at first, but the simple and elegant implementation is starting to win us over. You can either press and release one of the shortcut keys to keep the Exposé display on screen, while you choose a window, but if you keep the shortcut key pressed, you need only mouse over



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All members are invited to the following:

Palm Computing Special Interest Group (Triangle Adherents of Palm Information Technology – TAPIT)

Meets on 3rd Mon. at Bear Rock Café,
Crossroads Shopping Ctr. in Cary
Smythe Richbourg (palmnews@tmug.org)
<http://tapit.interpug.com> (map on page 7)

– and –

Digital Photography Special Interest Group

Meets on 1st Mon. 7 pm at DTS Software,
Raleigh, NC
Duane Reaugh (Duane@DTSsoftware.com)
919 833 8426 x123

TMUG Hotline 919-833-8501

TMUG Website www.tmug.org

your desired window and release the key to activate that window. One annoyance: Exposé doesn't display Classic windows in its thumbnail view.

Fast User Switching—Previous versions of Mac OS X required you to completely log out if you wanted to activate another user on the same machine, which meant quitting open applications and essentially restarting your Mac, but without the startup chime. In Panther, you can have multiple users logged in simultaneously, preserving the state at which you switched to a different user. You switch among different users by choosing the desired user name from a new menu on the right side of the menu bar. For homes that share a Mac among multiple family members, Fast User Switching is a godsend, and it has already made the cost of the Panther upgrade worthwhile for me: I needed to help someone configure an application from scratch, so I was able to quickly go through the steps using a brand new user, switching from testing to the email I was writing.

For pure eye-candy tastiness, Fast User Switching is likely to be a feature that many people will try out, even if they don't end up using it frequently. Instead of just displaying another user's Desktop, the environment graphically rotates as if each user belongs to one side of a cube, at least on my 15-inch PowerBook G4; it just switches on my Titanium PowerBook G4 and Adam's iBook. I haven't had a chance to see how the 3D metaphor works with more than six users; it would be swell to have a new cube fly in from a point in space, but I doubt Apple has extended the visual metaphor that far.

I have noticed that some applications behave differently when you switch between users. iChat automatically goes offline, but logs back into the AIM network when you return. Similarly, iTunes stops playing music, but unfortunately it doesn't start playing again when you're back. Also, be careful restarting when other users are active; if they have unsaved work and you can't access their accounts, they'll lose their changes (you need an administrator password to do this).

FileVault—Responding to the security needs of corporations and privacy-minded individuals, Panther introduces FileVault, a feature that encrypts the contents of your Home folder using AES-128 (Advanced Encryption Standard) encryption. After FileVault is enabled, you can still use items in your Home folder as you normally would, but they're encrypted and decrypted on the fly as you open and close them. This makes it extremely difficult for someone to access your data, such as if your laptop is lost or stolen.

<<http://www.apple.com/macosx/features/filevault/>>

<<http://csrc.nist.gov/CryptoToolkit/aes/>>

However, even ignoring the fact that several of the Take Control authors experienced data loss with FileVault while testing beta releases of Panther, FileVault has a serious architectural limitation in that it creates one large file to house your Home items. For many of us, that file will be humongous (as in many gigabytes), since the Home folder by default contains files such as digital photos, iMovie media files, and the iTunes library. This is a problem for two main reasons.

* Even a small amount of data corruption due to a failing hard drive or other problem could render everything in your Home folder inaccessible. Talk about putting all your eggs in one basket... * The smallest change to any file in your Home folder will cause the modification date of the entire FileVault file to change, and backup utilities such as Retrospect will copy the whole thing. (Dantz has listed some known issues with Panther and FileVault on their Web site.)
<<http://www.dantz.com/index.php3?SCREEN=kbase&ACTION=KBASE&id=28093>>

FileVault isn't a bad idea, but it scares me (and everyone else at TidBITS) silly; I can't imagine entrusting all my data to that single file, much less screwing up my backup strategy to accommodate it. Apple should modify FileVault so you can encrypt only specific folders, thus letting users protect only sensitive data, rather than wasting time and effort on other mostly innocuous files.

Font Book—The Mac has always been on top of typography, but managing fonts has been persistently cumbersome. Font Book is a good step in the right direction, giving most users more control over fonts without having to wonder if they're copying font files to the correct Fonts folder. You can enable or disable fonts, group typefaces into categories, and search for fonts in the same manner as in the Finder or iTunes. Graphics professionals will likely choose to stick with a font management utility such as Suitcase X or Font Reserve, but for most people Font Book provides enough control.

<<http://www.apple.com/macosx/features/fontbook/>>

The tricky part of using Font Book is figuring out its rules for enabling and disabling fonts, since you'll see different results depending on whether you disable a font when it's selected in All Fonts or in a particular collection. Matt Neuburg devotes several pages to this topic in "Take Control of Customizing Panther."

<<http://www.tidbits.com/takecontrol/panther/customizing.html>>

Virtual Private Network (VPN) Connections—Apple has been toiling behind the scenes on technologies that don't necessarily include splashy graphics or an improved user interface. Case in point: built-in VPN support, which many companies use to communicate safely with employees who travel or telecommute. VPN connections essentially capture all of the ports on a machine and bundle them up into an encrypted tunnel to another computer somewhere on a local network or elsewhere on the Internet. Because all data entering and leaving the machine is encrypted, and there's only a single point of entry or departure—the VPN connection—you've simultaneously reduced the potential of machines being attacked or compromised while eliminating networking snooping whether on a wired or wireless connection. Using the Internet Connect application, you can configure either L2TP-over-IPSec or PPTP connections.

<<http://www.apple.com/macosx/newfeatures/systemadministrators.html>>

On the other side of the data pipe, Mac OS X 10.3 Server has both kinds of VPN services built in, making it relatively simple and inexpensive for a small office to hook up a Panther server machine and use the Panther VPN clients to secure their wireless connection.

Should You Upgrade? A major release of any operating system brings with it a number of impressive new features as well as the certainty of glitches that need to be worked out, and Panther is no different.

For example, TidBITS Contributing Editor Glenn Fleishman and I, both recent purchasers of new 15-inch PowerBook G4s, discovered that Panther seems to be persnickety about RAM. The third-party generic RAM we installed seems to be the cause of problems (in my case, Panther would not even run on a completely new installation on a separate partition, and I got repeated system freezes on my main partition installed with the Archive and Install option). Swapping in the original 512 MB of RAM that came with my PowerBook seemed to

solve the problem. (Upgrade tip: don't immediately sell your original RAM on eBay.)

Also, a number of users are reporting that external FireWire drives that are connected when Panther is restarted can become irrevocably corrupted, so make sure you have offline backups of data on external drives before (and while) using them with Panther. And, as with every Mac OS update, some third-party applications and utilities will require updating before they work properly under Panther—be sure to check the Web sites of those products to see if any essential program is Panther-ready.

That said, Panther has a lot to offer. I've been impressed not only by the number of new features, but by the sense that Mac OS X is becoming more refined as it matures (perhaps because I remember when it was an awkward toddler). Even as extra bullet points are added to the feature list, I get the sense that just as much effort is being applied to making this Unix-driven system user-friendly.

Plus, Panther just feels faster and more responsive than Jaguar. Granted, I'm now using one of Apple's fastest laptops, so I'll be curious to see how my previous 400 MHz Titanium PowerBook G4 runs after upgrading. But I'm starting to see reports that indicate Apple's engineers continue to optimize Mac OS X's code to squeeze out better performance.

In the end, the upgrade question comes down to what sort of a user you are. Adventurous early adopters should of course upgrade to Panther immediately; it's too much fun to explore and play with the new features. More cautious users might want to hold off a bit, not necessarily for a 10.3.1 release, but just until more of the glitches have been identified and can thus be avoided. And unlike the upgrade from 10.1 to 10.2, which we considered essential, we can see some non-demanding users sticking with Jaguar from inertia alone.

PayBITS: Did Jeff's overview help you decide whether or not you should upgrade to Panther? Say thanks via PayBITS!

<<http://www.paypal.com/xclick/business=jeff%40necoffee.com>> Read more about PayBITS:

<<http://www.tidbits.com/paybits/>>

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HAVE A LITTLE FUN

from Smythe Richbourg

Open a Terminal window in OS X (while you're on the Internet, of course) and type the following:

```
telnet towel.blinkenlights.nl
```

You'll be treated to an ASCII-rendered version of Star Wars, Episode IV. You've got to see this to believe it!

PS—It also works on the Windows command line, but who cares?

STUFFIT DELUXE v. 8.0 CAUTIONS for Mac OS X condensed from MacFixit

If you have had any problems with the newest version of Stuffit while running Jaguar, you will want to check out the FAQ site at Aladdin:

<<http://www.aladdinsys.com/support/techsupport>>

If you've specifically had a problem trying to launch a compressed Stuffit archive (.sit), add this tag to the tech support URL above: `quanda.php?id=534`

One of three solutions may help with the non-launching .sit:

1. Terminal procedure to set the execution bit (which is missing in the application)
2. Downloadable, drag-and-drop utility which will set the execution bit
3. Revert to using an earlier version of the Stuffit Expander

Aladdin has said that they will release an update for both Stuffit Deluxe 8 and Standard 8 which will address the problem. Their most recent reminder to upgrade states does not mention the problem or any fix applied.

Wicked "Nile Virus" hitting computers! PLEASE READ... NOT A HOAX!

Even the most advanced programs from Norton or McAfee cannot take care of this one. It appears to mostly affect those of us who were born prior to 1950....

Symptoms:

1. Causes you to send the same e-mail twice.
2. Causes you to send a blank e-mail.
3. Causes you to send e-mail to the wrong person.
4. Causes you to send it back to the person who sent it to you.
5. Causes you to forget to attach the attachment.
6. Causes you to hit "SEND" before you've finished.
7. Causes you to hit "DELETE" instead of "SEND."

It's called the "C-Nile Virus."

Software Upgrade Problems from Carl Ebhardt

Last year a friend of mine upgraded Girlfriend 1.0 to Wife 1.0 and found that it's a memory hog leaving

very little system resources for other applications. He is only now noticing that Wife 1.0 also is spawning Child-Processes which are further consuming valuable resources. No mention of this particular phenomena was included in the product brochure or the documentation, though other users have informed him that this is to be expected due to the nature of the application. Not only that, Wife 1.0 installs itself such that it is always launched at system initialization where it can monitor all other system activity. He's finding that some applications such as PokerNight 10.3, BeerBash 2.5, and PubNight 7.0 are no longer able to run in the system at all, crashing the system when selected (even though they always worked fine before).

At installation, Wife 1.0 provides no option as to the installation of undesired Plug-Ins such as MotherInLaw 55.8 and BrotherInLaw Beta release. Also, system performance seems to diminish with each passing day. The features he'd like to see in the upcoming Wife 2.0 include:

- A "Don't remind me again" button
- Minimize button
- An install shield feature that allows Wife 2.0 to be installed with the option to uninstall at anytime without the loss of cache and other system resources.
- An option to run the network driver in promiscuous mode which would allow the systems hardware probe feature to be much more useful. I myself decided to avoid all of the headaches associated with Wife 1.0 by sticking with Girlfriend 2.0. Even here, however, I found many problems. Apparently you cannot install Girlfriend 2.0 on top of Girlfriend 1.0. You must uninstall Girlfriend 1.0 first. Other users say this is a long standing bug which I should have been aware of. Apparently the versions of Girlfriend have conflicts over shared use of the I/O port. You think they would have fixed such a stupid bug by now. To make matters worse, the uninstall program for Girlfriend 1.0 doesn't work very well leaving undesirable traces of the application in the system.

Another thing—all versions of Girlfriend continually pop-up little annoying messages about the advantages of upgrading to Wife 1.0

BUG WARNING

Wife 1.0 has an undocumented bug. If you try to install Mistress 1.1 before uninstalling Wife 1.0, Wife 1.0 will delete MSMoney files before doing the uninstall itself. Then Mistress 1.1 will refuse to install, claiming insufficient resources.

Another solution would be to run Mistress 1.0 via a UseNet provider under an anonymous name. Here again, beware of the viruses which can accidentally be downloaded from the UseNet.

Photos from Panther intro – by Jeff Cole

The first 2 are from TenPlus and the last 3 from the Apple store.

After taking advantage of the discounted Panther at TenPlus I headed home and I just happened to drive by another Panther

(Thank you TenPlus!). Probably a company policy at Apple Stores.

Summary by Melanie Crain

The “high” for most Mac Events is the anticipation.

That could be said for the recent release of Panther OS except for people who were still lingering at TenPlus Systems

Party at the Apple Store. Chips and I represented TMUG well. We even got free dog tags. Lots of people, lots of fun, but no refreshments

minute spectacular display of fireworks, seen as clearly from TenPlus Systems as from the State Fair Grounds where they launched. It truly was a launching party from start to finish.

Q&A with Bob (Easy Ones First) Chandler by Cort Boylan

Q: I thought I turned my sage iMac (system 9.0.4) off, but I when I came back to the computer it had a blinking world icon and then the blinking “?”. What caused this?

A: NetBoot was looking for a drive. Probably the hard drive is sick and dying. Upgrade to system 9.2.2 and consider Disk Warrior version 3 which has “smart

technology” to detect failing hard drives before they die.

Q: I’ve got a 300 mhz G3 Wallstreet PowerBook. Can/should I upgrade it?

A: It’s worth about \$ 300 on eBay. You’re better served by buying a new machine.

Q: On a Beige G3 under system 9.1 I get an error #1010 in an application. What does this error mean?

A: Nobody in the audience knew the real answer though it was mentioned that error 1010 isn’t nearly as bad as error 1011. Another member added that 1010220 gives you all your long distance phone calls for a dollar.

Q: Under system 10.2.6, when I open Speech in the System Preferences I get the spinning beach ball. How can I get rid of this?

A: Try removing “voices” from the system file.

Q: If you downloaded system 10.2.8 when it was first released before Apple pulled it, should you redownload the revised version?

A: Yes. It is actually a patch for anyone who already has 10.2.8 on their machine.

Q: I got my wife a Sony Palm PDA. When she syncs with a Mac, she gets 2

entries for every contact.

A: Tell the Mac to override the PDA. You may need to reset the PDA.

Q: Needs a solution for his wife’s tangerine iMac that won’t capitalize letters.



until the closing moment (10pm) on Friday night, October 24th. Those lucky people were treated to a 30

A: Check in keyboard preferences if “ee cummings” is selected. There wasn’t a good answer for this one.

Q: Using the latest version of Safari and it freezes and there is no mouse movement.

A: One fix is to find every Safari file using the “Search” command and trash it. Then reinstall Safari. This is also known as search and destroy.

Q: Safari doesn’t have a scrapbook, does it?

A: Paul Scandariato, a local Mac developer who was in the TMUG audience, has created one. Talk to Paul.

Q: Where does the dock configuration live?

A: It’s in your home:library: preferences: com.apple.dock.plist.

Q: Does anyone have a utility that will graphically show memory usage?

A: iconfactory.com has ipulse. Also there is an open source app called XRG and an app called Memory Stick.

Q: Under system 10 with 1 gigabyte of RAM I’m running out of memory even when I’m doing very little.

A: RAM could be bad or Microsoft software could be bad. Suggested pull quote: “this is the first release of OS X that drops support for beige G3 models. Panther is only designed to run on Macs with built-in USB.”

October Meeting Highlights by Frank Crigler

Is there one amongst us, amateur or pro, who hasn’t secretly wanted to hang our stuff out there on the World Wide Web for everyone to admire? It’s like that fifteen minutes of fame we all believe is due us sometime in our lives. Well, no more excuses—last month they showed us how!

One of the great things about attending TMUG meetings is that, if you’re patient and listen closely, you’ll almost always learn stuff you really wanted and needed to know. Sure, some of the discussions among experts get pretty esoteric and technical for us amateurs. But just when we’re ready to throw up our hands in despair over Ghz or PHP or Godzilla (?), along comes a session like the one October 13 that really turns us on to the great things we can do with our Macs. Even us dumb ones!

At the October meeting, two great presenters, Chris Duchene and Josh Gitlin, showed us, in crystal-clear terms, how to build simple websites and open windows to the world. And thanks to the work of our hard-working, underpaid webmaster Phi Sanders, each of us now has a place online where we can show off our stuff and win the fame (if not the fortune) we deserve.

First the warm-up

Sensing these guys were hot properties, our leaders

wasted no time getting down to business.

VP Chips Chapman welcomed our several visitors and newcomers and briefly previewed the meetings for November (iPod gear) and December (holiday party).

President Smythe Richbourg recognized our house experts and consultants, including three new reps from TenPlus, who invited us to a coming-out party for “Panther,” the latest version of the Mac operating system.

Melanie Crain announced the first meeting of the new genealogy Special Interest Group she’s organizing, using the Mac-friendly Reunion software (the SIG met at the break and will henceforth assemble for a half-hour prior to each monthly TMUG meeting).

Smythe countered with invitations to two other popular SIGs, one on Palm OS computing, the other on digital photography—see schedule listings on p. 2. (??)

Even Bob Chandler’s Q&A session was shortened to leave more time for our web presenters (Bob demanded that we make our questions quick and easy for once, but to no avail)—see sidebar for details.

Chris Duchene and Mozilla

Chris led off by introducing us to Netscape’s Composer, his favorite basic program for building and editing web pages (Composer comes free with the Mozilla browser). Using the program’s graphical interface, he quickly built us a “generic” webpage:

First, at the top of the page, he placed a simple banner image that he’d already created using Fireworks but which could as easily have been made with AppleWorks’ paint program (saved as a JPEG file);

Next he clicked the program’s Table button to insert a table to serve as the familiar “links” column on the left side of the page, then showed how to fill it with links that would take viewers to other relevant pages of interest;

Then he added another table, this one broad enough to fill the rest of the page width, to serve as the page’s “content” area, and he easily filled it with dummy text;

Finally, Chris showed how to preview the results by opening the page with a standard web browser (Navigator in this case).

Voila! Not a terribly interesting page, admittedly, but good enough to get us started.

Josh Gitlin, Webdav, and Page Spinner

Josh took it from there. First he needed to show us where and how TMUG members’ web pages could be displayed for the world to see and admire: on TMUG’s own web server, of course! That turned out to be not quite as simple as we hoped, since Webmaster Sanders is still perfecting and apportioning the new server system. But he and Josh straightened things out so that members could access the web space reserved for each of us. Josh then

took the audience step-by-step through the points on Using WebDisk as published in last month's Get Info (p. 6).

The basics of uploading to your WebDisk just the start; from there the process depends mainly on your creative juices—plus a basic familiarity with the Apple tree structure of directories and subdirectories.

Want an image on your index page? Build or borrow what you like, save it as either a GIF file (for draw-type graphics) or a JPEG file (mainly for paint files or photos), create a subdirectory for “images” and place your image there, then use your Composer or other web editor to locate the image on your page and link the two.

Want to add additional pages? Same process: build your page using your web editor, create another subdirectory for “pages” and drag your new pages there, then create a link on your index page that leads your reader to the added page(s).

Josh and Chris made it sound pretty easy, and it isn't rocket science, after all. Sure, there's a lot more to learn and apply before your page looks like Adobe's or Apple's on the web. But they've been at it longer than we have! Our presenters—and our Webmaster—at least got us off to a good start. Thanks, guys! (Now to ice some champagne to celebrate my fifteen minutes of fame :-)

Scanning Advice

from Danny Evarts, danny@tripnet.com

Posted to the Reunion Listserv 28 Sept 2003

As one who has made his living playing with pictures on the computer, esp. for print, I'll pass a couple of things along.

The rule of thumb for professional printing requires images of 300 dpi (dots per inch). Any higher than this is unnecessary (there's no discernible difference in the final output, and the file gets extremely large). The key for the original scan of the image, however, lies in the image size itself, and how large you may want it in the end. If your image is small to start with, and the scan is at only 300 dpi, you will lose quality if you enlarge the photo. For example, if you scan a 3x5 photo in at 300 dpi, then double its size, you'll, in effect, be taking the image down to only 150 dpi (there are ways to get around this, but the effect on the photo or image is very noticeable). So, in this case, you would want to scan the image in at 700 dpi or more, and then double the size, cutting back to 300 dpi in your software. For slides, I find for my work that scanning at 1200 dpi gives me more than enough to do pretty much anything with the image (apart from extremely large posters).

Most consumer printers won't take advantage of the higher resolutions (no matter what they say), but many

“pro” models will. And as the technology is improving so rapidly, it's again wise to have the best quality original as possible.

It's better to make the scan as high quality as possible to start with, and making lower res copies as may be needed (i.e. for display in Reunion, e-mail, web pages, etc.), then to have to scan the same image for every use of it. Keep your original scan somewhere safe, and always work on a copy (most frustrating to accidentally save a low quality proof over the original!!)

As for formats, there are two types used for professional printing (and by this, I mean books, CD covers, catalogs, et al.), tiff and .eps

Which is used depends on the media. Photographs and similar images require tif files. The reason for this is basically the way it “blends” the multiple colours (or grays) together to trick the eye into believing all the tones are continuous. For line art or items that are mostly text, .eps is used. Complicated to explain way, but basically it keeps lines and text crisp and sharp, without dithering the edges (blending them). Beware, however, MS users have an extremely difficult time attempting to use eps files (the world of postscript is just starting to be successfully utilized by the MS world, and then by only the pro apps).

I've read many explanations in this group about the jpeg files, and why it's best not to use them, and none have really made it very clear what this format does to your image. In order to compress the file to a tiny size, jpeg basically removes pixels, and blends other pixels to fill in. The more you compress it, the more colours are removed from the palette, and the worse the image gets, quality-wise. These colours are lost permanently, so saving a file as a jpeg should be reserved only for specific purposes.

A final word, and this of caution... If you save a file at any resolution higher than dpi, and try to e-mail it or put it on the web (or even in Reunion), your friends will hate you for the file size, and viewing it will be annoying. If you view a 300 dpi image in a web browser, for instance, it will appear over four times the physical dimensions you told it to be. Web browsers and the like translate not by actual physical size (3x5, 4x6, etc.), but by dots per inch (or pixels per inch, if you prefer), and are programmed to believe that each inch of image is 72x72 dots. So, instead of squeezing the dots closer together when more exist, they enlarge the image proportionally (image manipulation apps do this as well, but you can adjust your view to suit).

Oh yeah, jpeg stands for Joint Photographic Experts Group (its developers). The 3 letter identifiers for image and other file formats (.jpg, .tif, .htm, etc.) came about due to the 3-letter limit in dos.

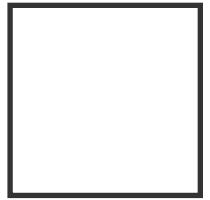
[Permission to use the above was sent to Danny Evarts on 28 Oct 2003]



Users Group

P.O. Box 14724

Durham, NC 27709-4724

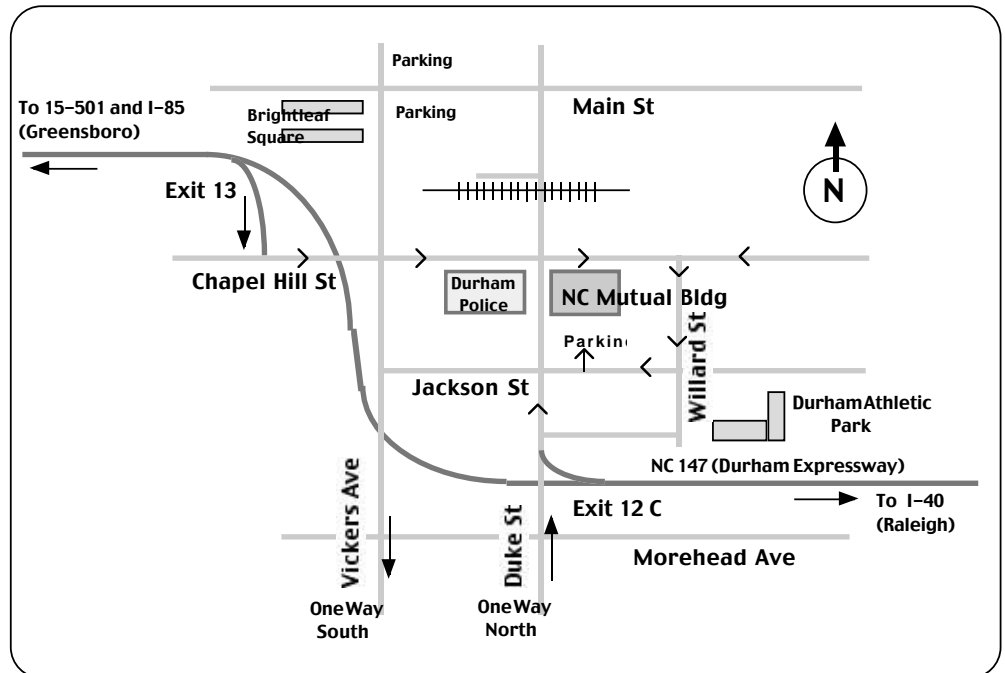


first class mail

Meeting Location:

We meet the second Monday of each month at 6:30 pm in the Auditorium of the NC Mutual Life building in Durham, NC.

From I-40—Raleigh/RTP area: Take 147 (Durham Freeway) to Duke Street. Turn right onto Duke St., go to the first light, Jackson Street. The building is on the right across the street. Turn right onto Jackson, then immediately turn left into the lot and park. When you get there: Go down the stairs to the right, not up the stairs. There is a guard at the entrance. Auditorium is on the right just off the lobby.



TRIANGLE MACINTOSH USERS GROUP

Membership Application

Membership

Renewal

Name: _____ Business (if applicable): _____
Street: _____ City/State/ZIP: _____
Phone: _____ Email: _____

Membership dues are \$35/year.

Make check payable to TMUG and send to:

TMUG • P.O. Box 14724 • Durham, NC 27709-4724