

Apple Barrel

The Journal of the Houston Area Apple Users Group

May 2012

Boss HAAUG Speaks
page 2

Security Beat
page 3

Links from Dr. Mac
page 4

**Board of Directors
Meeting Minutes**
page 7

Help Wanted!
page 8

Upcoming Events
page 9

May 2012 Event Schedule
page 10

Got Junk?
page 11

Digital Infrared Photography
page 14



The New iPad - When Rumor Becomes Reality Dwight Silverman

Techblogger, computer columnist, blog editor,
social media evangelist @ HoustonChronicle.com.
Co-host of [Technology Bytes](#) radio show, regular [TWiT](#) panelist.
[University instructor](#). [Computer book author](#). [Twitter junkie](#).
Pizza lover.

Dwight is no stranger to HAAUG. He has graced us with his presence, entertained us with his wit, and informed us from his vast store of tech knowledge on numerous occasions. We are once again fortunate to have him give the main presentation at our May meeting, during which he will talk about the iPad, Apple's iTV, and other rumors *du jour*.

The SIGs start at 9am, and the Main Presentation begins at 11:15.
We'll see you there on the 19th!



P.O. Box 570957
Houston, Texas 77257-0957

Meeting Location

Bellaire Civic Center
7008 South Rice Avenue
Bellaire, TX 77401

Just outside Loop 610 and
south of Bellaire Blvd.



Boss HAAUG Speaks

Monthly Address from the HAAUG President



First, I would like to give a big HAAUG thank you to Jonathan Magnus for the time and effort he put into last month's meeting. Not only did he do his regular SIG, but his presentation on programable micro controllers was great. We had a great turnout, and it also brought out some folks who were not members of HAAUG. Thanks again! The topic for May's meeting is still up in the air as of my writing, but by the time you read this we will have a main topic.

In other Club news: the Board decided at the March Board meeting to buy a Certificate of Deposit using our excess funds. That was accomplished during the April meeting. We are not making a lot of interest, but the idea was to not have a checking account with a balance of over \$10,000. As of the last Board meeting all of our bills are paid, and we have plenty of money to cover expenses.

The Club also signed up for a "Square" account. Square is an iPhone/iPad app that allows you to accept credit cards by swiping the card's magnetic strip through the Square reader that plugs into the earphone jack of the phone. This will allow the club to sign up visitors who want to join, but do not have a check or cash at the meeting. In the past, we have suggested that they go on line and join, but in many cases people don't or they forget. This will allow us to "strike while the iron is hot" and sign them up at the meeting. HAAUG now has several ways to pay: credit/debit card at the meeting, credit card online, check and cash.

Just before our April meeting Apple released its March quarter results, and as expected it made a ton of cash: \$39.2 billion in revenue and \$11.6 billion in profit. This was a significant increase over the same quarter in 2011. This quarter also accounted for the release of the third generation of the iPad. The company sold 35.1 million iPhones and 11 million iPads during the quarter ending in March. Another event hit the news recently, with the sell out of the World Wide Developers Meeting in two hours after tickets went on sale. I guess that there is still interest in the various Apple platforms.

HAAUG landed a whale! I received an email from Chris Breen, Sr. Editor of Macworld, who will be our main speaker in October. I hope that we can secure other Apple/Mac writers to present at our meetings.

I mentioned earlier about the Board meeting: the Board meets right after the main meeting, and all members are welcome to attend. We would love to have a few volunteers - if you have some skills or would like to learn some new things speak to me at the meeting, we will find something for you to do!

Security Beat

Ed Truitt, etee@me.com



Welcome, again, to the Security Beat! For the past two months, this column has been devoted to the “Flashback” trojan - a particularly nasty piece of software unpleasantness that has, according to numerous reports, found a home in over 500,000 (that’s *half a million!*) Macs, most of them in the US. I hope you will indulge me for one more month, as I go over some items of interest related to this trojan, and some of the underlying “conventional wisdom” about security on Macs that it has busted:

Macs are “immune” to viruses. True, Flashback isn’t a virus (technically, it is a trojan). Also true, Flashback targeted vulnerabilities in Java, a 3rd-party application. However, Java is bundled with and (until Lion) installed as part of the OS X standard installation, and (until just recently) Apple provided all updates (patches) for Java, instead of Oracle. But, let’s not mince words here: while this may not be the Macpocalypse many were fearing/looking forward to, it is definitely a wake up call. Macs *can* be taken over by the bad guys, and if we want to keep them out, we are going to have to take steps toward that end.

The bad guys have no reason to target Macs: Windows PCs are their preferred target. OK, admittedly, there are still a lot more Windows machines out there, which translates to a larger attack surface. However, analysis of the botnet created by the Flashback trojan found that [it potentially generated over \\$10,000 per day in revenue](#) for its owners. It did this by hijacking Google searches, and under certain circumstances redirected the user to a different page, where the botnet operator received revenue for the click. Yes, Virginia, the purpose of this malware was criminal click fraud.

“Safe online behavior” is enough. Once upon a time, you could keep your PC (or Mac) safe by staying away from the seedier parts of the ‘Net. Avoid the hacker hangouts, warez downloads, gambling and pr0n sites - this was the mantra of the day. Did you know, however, that a recent report shows that [church sites are more likely to infect computer than porn](#)? According to a report from Symantec, “websites with religious or ideological themes were **three times more likely** to carry viruses than those with pornography or other adult content. Oftentimes, they’ve been “booby-trapped” with malicious code inserted by hackers.” This was, if I recall, the method used to infect Macs with Flashback (and I recall correctly: the sources of the infection were actually booby-trapped WordPress pages. Many non-profit sites run on WordPress: and, in fact, we are working to migrate the HAAUG site over to this platform.)

Macs “don’t need no stinkin’ CPU-sucking security software”. While some Mac old-timers may hang on to this belief, there are valid reasons for Mac users to have security software running. Flashback proved the business case for making malware targeting Macs. One would presume that other bad guys took notice, and will soon be looking to worm their way into your Apple. In addition, while Macs may not be infected as often (or to the same extent) as their Windows brethren, they can (and

(cont’d on p. 8)

QuickTip



Google Chrome keeps older versions of its web browser causing it to balloon in size. I noticed that the Google Chrome App on my Mac was 1.2 GB. That seemed a bit portly for a web browser. Upon looking into the app’s bundle, by right-clicking and choosing Show Package Contents, I found multiple old versions of the app, all which appeared to be nearly identical. I removed all but the most recent version and everything appears to run correctly and the app size is now a much more slim 113 MB.

[kirkmc adds: Interesting. On my Mac, in the bundle, in Contents > Versions, there are, indeed, two versions of Chrome. This presumably has something to do with Chrome’s silent updating. (Queries on Twitter suggest that this is the norm; a number of people replied that theirs was around 220 MB, as was mine.) Make sure you keep the one with the highest version number. You could also, of course, just download a new copy.

If you want to turn off this automatic updating, see [this hint from 2010.](#)]

<http://hints.macworld.com/article.php?story=20120426095831578>

Links from Dr. Mac

Bob "Dr. Mac" LeVitus

Here are the URLs from Bob "Dr. Mac" LeVitus' presentation at the February General meeting:

Lion Tips and Tricks:

<http://www.macworld.com/rc/osx/lion.html>

<http://www.tuaw.com/2011/07/20/links-to-all-our-lion-tips-in-one-convenient-place/>

<http://www.liontricks.net/>

<http://www.businessinsider.com/best-os-x-lion-tips-2011-7-search-the-web-and-wikipedia-straight-from-spotlight-1>

<http://www.pcmag.com/article2/0,2817,2388871,00.asp-fbid=iG2yfc973XM>

http://www.techradar.com/news/computing/apple/25-mac-os-x-lion-tips-and-tricks-986009?artc_pg=2

<http://gizmodo.com/5822946/the-os-x-lion-survival-guide>

Macworld Lion Tips Audio:

http://www.macworld.com/article/161903/2011/08/lion_tips.html

Lion Recovery Disk Assistant:

<http://support.apple.com/kb/DL1433>

Lion Tweaks:

<http://www.ifredrik.com/applications/LionTweaks.zip>

Troubleshooting a Battery-Sucking iPhone 4S by Christopher Breen:

http://www.macworld.com/article/163200/2011/10/troubleshoot_iphone4s_battery.html-lsrc.nl_mwiphone_h_cbintro

Apple Support Communities iPhone 4S Battery Life discussion

<https://discussions.apple.com/thread/3391947?start=1785&tstart=0>

Fun with Siri:

<http://www.google.com/search?client=safari&rls=en&q=siri+funny&ie=UTF-8&oe=UTF-8>

BoinxTV:

<http://www.boinx.com/boinxtv/overview/>

ZeroChroma cases

<http://zerochroma.com/>

Newer Technology NuTouch Gloves:

<http://www.newertech.com/products/nutouchgloves.php>

Newer Technology NuGuard GripBase & GripStand for iPad

<http://www.newertech.com/products/nuguardgripbundle2.php>

Classifieds

Products and support for the Macintosh community

Got a story, or photo you would like to see in the monthly edition of the Apple Barrel?

The Apple Barrel is always looking for good, meaty material for its monthly publication. If you have a personal story, review of a new product or just a funny or helpful thought, feel free to spread the word via the Barrel.

Submit your story, review or photos, etc. to: abe@haaug.org



QuickTip

If you press Command+I while in the OS X Installer, a small window displays, showing the contents of the package about to be installed.

[kirkmc adds: This is great; I don't know why we haven't had this submitted before. I tried this with a number of installer packages. In most cases, the window shows the contents of the .pkg from the very first window. However, when checking on the Mac OS X 10.7.3 Combo Updater, clicking the disclosure triangle next to the name of the update in the file list window displayed "The file listing isn't yet available," but the file list then showed up a few seconds later. Note that all you can do is view the file list; you can't copy it.]

<http://hints.macworld.com/article.php?story=20120406092946908>

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Dimensions: 5" x 2.5"

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Business Card Ad

Dimensions: 3.5" x 2"

Frequency: 1X \$30, 2X \$25, 3X \$15

** Dimensions of advertisements may vary as a result of document layout.*

Minutes

HAAUG Board of Directors Meeting – Saturday, March 17, 2011

Location: Bellaire Civic Center, 7008 South Rice Avenue, Bellaire, Texas.

Attendees: Philip Booth, Jim Connell, Michael Epstein, Clair Jaschke, David Jaschke, Michael King, Ed Truitt, and Greg Wright.

Call to order: 12:43 p.m. by President Philip Booth, following the conclusion of today's General Meeting, a quorum of voting members of the board being present.

General Announcements: Philip Booth announced that HAAUG made a profit on the sale of \$2 tickets for the raffle of an Apple TV at today's General Meeting. He may consider raffles at other General Meetings during the year.

MONTHLY REPORTS:

Secretary – Jim Connell: The board unanimously approved the minutes of the board meeting held on February 18, 2012, as submitted.

Treasurer – Clair Jaschke: Clair Jaschke submitted written financial reports for February 2012 to the board. At the end of last month, HAAUG had \$12,007.55 in its bank account. Clair has paid all bills she has received. Clair reported that the Audit Committee has recommended that HAAUG not keep all of its cash in a checking account. After discussion, the board approved the Treasurer moving \$5,000 from the checking account to a certificate of deposit at JP Morgan Chase Bank, where the checking account is maintained.

Vice President – Greg Wright: Greg Wright thanked Doug Smith for his presentation on new ways to watch TV at today's General Meeting. Greg reported that the following program schedule for upcoming meetings for 2012:

April 28: Presentation on Microcontrollers (Jonathan Magnus)

May 19: Chris Breen in person or by iChat, or iOS Programming (tentative)

June 16: How to Publish an eBook (John Gaver)

July 21: Semi-Annual Swap Meet

After discussion, the board decided to continue providing the SIG schedule handout at the General Meetings.

Membership – David Jaschke: David Jaschke reported that HAAUG had 181 members at the end of February 2012, an increase of fifteen members since January 2012 and a decrease of thirteen members from February 2011. Ten new members joined HAAUG by Kagi following Bob LeVitus's newspaper column last month about the benefits of Mac User Group membership. David will investigate the purchase of a credit card reader for the iPad that would allow memberships to be charged to credit cards at HAAUG's monthly meetings.

Media and Communications Administrator – Ed Truitt: Ed Truitt announced the deadline for submitting article for the April Apple Barrel is the first weekend in April. In the March Apple Barrel members were given notice that HAAUG Heaven will end on March 31, 2012. Ed is continuing to work with Tamara on back coding for the new HAAUG website.

OLD BUSINESS:

Audit Committee: The Audit Committee (Jim Connell, Michael Epstein, Michael King and Greg Wright) met with the Treasurer during today's General Meeting to continue the audit of HAAUG's financial records for 2009, 2010, and 2011 that began last month. The committee is working back from 2011 and has nearly completed the audit of the 2011 financial records. The Audit Committee will continue the audit at next month's General Meeting and report to the board.

NEW BUSINESS:

General Meeting Times: The board discussed whether (cont'd on p. 8)

Minutes...

(cont'd from Page 7)

to alter the current 9:00 a.m. to 1:00 p.m. time schedule for the General Meetings by starting and ending later. After discussion, the board decided to keep the current General Meeting times.

Adjourned: 1:10 p.m.

Help Wanted!

Ed Truitt, Media & Communications Dir.

Do you have something to say? Or, maybe you have Web-programming skills, especially in CSS, PHP, and with experience in the WordPress CMS? Possibly you are an experienced Webmaster? On the other hand, you might be one of those who has experience in none of the above, but you want to be involved in HAAUG, and are willing to learn?

If you fit any of these criteria, we may have just the thing for you! HAAUG is looking for authors, web programmers, and a Webmaster. If you are interested, please see either Phil or myself at the general meeting, or email me at abe@haaug.org.

Security...

(cont'd from Page 3)

do) act as carriers and "safe harbors" for *Windows malware*. Security firm Sophos recently studied 100,000 Macs, and found that [20% of them were carrying one or more instances of Windows malware](#). I will tell you right now that I have been running the [free Sophos Anti-Virus for Mac](#) for some time now, and it is not uncommon for it to find Windows malware in my incoming email. Were I to somehow forward one of those, and it ended up starting an outbreak at somebody's company, the impact could be severe (and I should know this: as an IT Security professional, I have had to deal with virus outbreaks caused when someone opened an email and clicked something they shouldn't. Despite all the user awareness training, and despite our considerable investment in security systems, it happens.) Let's face it: Macs these days are much more powerful than they used to be, and they are attracting a lot of "converts" from the Windows world. These new users, alas, sometimes bring their computing habits from their previous life with them, and these folks especially need the additional layer of protection that security software provides.

In other Mac-related security news: it has been reported that [Lion Security Update 10.7.3, released in February, contains a flaw which causes users' FileVault passwords to be exposed in plain text](#). This flaw affects those who upgraded to Lion from Snow Leopard, and who were using FileVault to encrypt their home directories: it does not affect those who are using FileVault 2 and full disk encryption, nor does it affect those who haven't upgraded from Snow Leopard. The best course of action is to implement a full disk encryption solution like Apple's FileVault 2. And, of course, change the encryption password - after all, it may have been backed up by Time Machine or whatever solution you are using (*you **are** backing up your Mac, right?*), which means that it should be considered to be compromised.

OK, rant over. Hopefully, next month I'll be in a position to report on something more positive in the Mac security space (there is an app I am testing, and should be ready to review by June.) Until then: keep 'em safe, and keep 'em secure!

Upcoming Events

Houston Area Apple Users Group 2012 Officers and Directors

President
Phil Booth

Vice President
Greg Wright

Secretary
Jim Connell

Treasurer
Clair Jaschke

Membership Chairman
David Jaschke

Media & Communications
Ed Truitt

Director-at-Large 1
Michael Epstein

Director-at-Large 2
Michael King

Senior Advisor
OPEN

Saturday, June 16th, 2012

How to publish an e-Book

So, you want to be an author in this brave new digital world? John Gaver will give you some tips on how to make this happen!

Location: Bellaire Civic Center | Map online at www.haaug.org

Saturday, July 21st, 2012

Semi-Annual SwapMeet

Time to clean out the gadget stash again! Our mid-summer opportunity to buy and sell gently-used Apple (and related) "stuff".

Location: Bellaire Civic Center | Map online at www.haaug.org

Saturday, August 18th, 2012

(To Be Announced)

Stay tuned!

Location: Bellaire Civic Center | Map online at www.haaug.org

Saturday, October 20th, 2012

Chris Breen, Sr Editor of Macworld

This meeting should be on your "must attend" list. Reserve the date!

Location: Bellaire Civic Center | Map online at www.haaug.org

Locations, Directions + Parking

Bellaire Civic Center

7008 South Rice Ave. • Bellaire, TX 77401

The Bellaire Civic Center has been a great location asset of HAAUG for the past 4 years and includes many amenities such as wireless internet and both open and closed spaces for Special Interest Group (SIG) meetings and other functions.

Find out the latest news on future HAAUG meetings...

www.haaug.org/meetings/

STARTRONICS

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May 2012 Event Schedule

	Main Room	2nd Room
9 a.m.	The Lion's Den	iOS
10 a.m.	Mac 101	Digital Photography
11 a.m.	Club Business	
11:15 a.m.	Main Presentation: The New iPad - When Rumor Becomes Reality by Dwight Silverman	
1 p.m.	Clean-up	Board of Directors meeting; followed by social time, and lunch

Main Presentation: The New iPad - When Rumor Becomes Reality by Dwight Silverman. The Houston Chronicle's social media guru and tech blogger will talk about the new iPad, Apple's iTV, and other rumors *du jour*.

The Lion's Den: Phil Booth - Our newest SIG, focusing on Apple's newest cat.

iOS: Doug Smith - iPad, iPhone and the apps that make our lives better.

Mac 101 & Fundamentals: Jonathan Magnus - The SIG for basic to advanced Macintosh topics.

Digital Photography: Andrew Polk – Bring your cameras, bring your photos and we'll discuss what makes a great photo.

Ad hoc: Groups are welcome to use the casual spaces to meet on other topics. Scheduled SIGs take precedence.

The position of HAAUG SIG Coordinator is currently open. If you would like to volunteer to be the SIG Coordinator, please see any member of the Board of Directors.

Got Junk?

Computer recycling opportunities in the Houston area

Houston area recycling centers:

Environmental Service Center

11500 South Post Oak Road • Dial 311 or 713-837-9130

Westpark Recycling Center

5900 Westpark • Dial 311 or 713-837-9130

Goodwill COMPUTER WORKS

12230 Westheimer
Houston, TX 77077
281-589-1215

Commercial electronics recyclers:

ScrapComputer.com

350 W. 38th St., Houston, TX 77018 • 713-691-9995

***Accepts all computer-related items free; offers free pickup for large amounts.*

Altech Metals, Inc.

10612 Hempstead, Building A • 713-680-9325

***No TVs or monitors*

ARM Trading, Inc.

2476 Bolsover, Suite 557 • 713-665-0213

Compucycle

620 W. 6th St. • 713-866-8021

ONYX Environmental Services

Baytown • 1-800-624-9302

Houston Computer Recycler

6102 Brittmoore, Suite N • 713-937-3334

Recycle America Waste Management Asset Recovery Group

2102 Atascocita Road, Humble • 281-540-8900

Eagle Electronics

10612 Hempstead, Building A • 713-934-8585

QuickTip



You know how when you want to change a file extension in the Finder, you get a warning asking if you're sure you want to change the extension? In most cases, if you are changing the extension, you are doing so because you want to, and you know the consequences.

You can disable this warning. Run the following command in Terminal:

```
defaults write com.apple.finder  
FXEnableExtensionChangeWarning -bool false
```

Then relaunch the Finder, either by Option-clicking on the Finder's icon in the Dock and choosing Relaunch Finder, or by running this in Terminal:

```
killall Finder
```

(I found this when browsing through the [long list of defaults commands](#) that we recently published as a hint. But when googling it, I noticed that [OSXDaily had recently published](#). So a shout out to them.)

<http://hints.macworld.com/article.php?story=20120424015432847>

Become Part of the Action

Join or renew your membership with the one and only Houston Area Apple Users Group today!

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details on joining.

Join by Mail:

Please fill out and complete the following form. Send a check or money order payable to HAAUG and mail it to the address shown below. Dues for regular members are \$35 per year. Student memberships are available for full-time students at a high school, community college, or university for the rate of \$10 per year.

Your membership card will be mailed to you. You may pick up your starter kit at the next HAAUG meeting.

First: _____ Last: _____

Company: _____

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Home Phone: _____ Work Phone: _____

Email: _____

Type Of Computer: _____

Membership:

- | | |
|-----------------------------------------------------|-----------------------------------------------------------------------|
| <input type="checkbox"/> New Membership (\$35.00) | <input type="checkbox"/> Renewal (\$35.00) |
| <input type="checkbox"/> Two Year Renewal (\$70.00) | <input type="checkbox"/> Student (\$10.00) <i>Requires Student ID</i> |

Check # _____

Member # (if renewing): _____

How did you hear about HAAUG?

Do you know someone who would be interested in joining HAAUG? Y | N

Would you be willing to volunteer in HAAUG?

Mail check to:

HAAUG
P.O. Box 570957
Houston, TX 77257-0957
Attn.: Membership Chairman

Membership Benefits

Enjoy the benefits of being a HAAUG member.

Monthly Meetings

This is where the excitement begins. On the third Saturday of each month, members of HAAUG meet for a day filled with activities, including presentations by major software and hardware vendors, special interest group (SIG) meetings, raffles, and much, much more. Swap Meets are held twice each year, in January and July.

Social Media & Internet Presence

The HAAUG web site at <http://www.haaug.org> is the place to go for up-to-date information on what we are doing. In addition, there is [a HAAUG group on Facebook](#), where people can go to interact with fellow HAAUG members on topics of interest related to Apple and its products.

Club Magazine

Club and industry news, meeting information and special member offers are published in our monthly newsletter - The Apple Barrel. The Barrel's content is also available to members on HAAUG Heaven in Adobe Acrobat format.

Mentor Program

The HAAUG Mentor Program puts people with hardware, software, system or network problems in contact with volunteers who can provide solutions. Contact with the mentors can be made through the HAAUG Hotline, HAAUG Heaven, e-mail or at the monthly meetings.

Special Interest Groups (SIGs)

People with common interests, including Macintosh and OS X basics, Newton, iOS, internet, games, educational computing, databases, publishing, graphics, desktop video, programming and more gather for in-depth discussion, product demonstrations, tutorials and general knowledge sharing.

HAAUG Hotline

Call the HAAUG Hotline at 832-305-5999 for the latest meeting information and to leave voice mail for officers.

Lots of Fun & Friendships

HAAUG is a not-for-profit volunteer group founded in 1978, three years before there was an IBM PC. Approximately 200 members enjoy the benefits of HAAUG. We range from beginners to experts, but we all know the secret to making our computers more valuable - a HAAUG membership.

Learn more about the benefits of HAAUG membership at www.haaug.org.

The Apple Barrel is a monthly publication of the HOUSTON AREA APPLE USERS GROUP (HAAUG) P.O. Box 570957 Houston, Texas 77257-0957.

Apple Barrel's editors have a policy to protect the creative rights of authors. The Editors acknowledge that authors' works are copyrighted and intend to honor those copyrights by: 1) this statement of policy, 2) providing, when considered significant, copies of edited text to the author for review prior to publication, 3) seeking permission to reprint previously published pieces from the author whenever possible, and 4) printing acknowledgment of reprints used.

If you are interested in joining HAAUG, please call the HAAUG Hotline at **(832) 305-5999** or sign up via our web site at www.haaug.org.

Annual membership is \$35 for regular members, and \$10 for student members (limited to students enrolled full time at a high school, community college, or university.) The Hotline is also the Mentor line if you need help. Guests are welcome to attend one or two meetings to get acquainted with HAAUG, but participation in certain presentations and activities may be limited to members only. HAAUG is an independent support group of Apple product users and is not affiliated with Apple Computer, Inc. The following are trademarks of Apple Computer, Inc., Apple, Apple II, Apple IIGS, eMac, Macintosh, iMac, iBook, iPod, iPhone, iPad, PowerBook, ImageWriter, LaserWriter and the Apple Logo. All other brand names mentioned are registered trademarks or trademarks of their respective holders, and are hereby acknowledged.

Digital Infrared Photography

Ed Truitt, etee@me.com

At the Digital Photo SIG last month, Andrew gave an excellent presentation on free courses available on the 'Net (*thanks Andrew!*) At the end, we briefly discussed some other types of photography, one of which was infrared photography. This is a subject I have been interested in since my film days: however, infrared film was very tricky to work with, and required total darkness when loading/unloading.

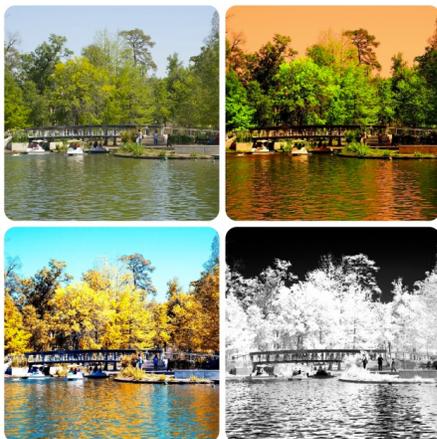
Infrared photography in the digital era is much easier: many cameras are sensitive to light in the infrared portion of the spectrum (you can test to see if yours is, by aiming your TV remote at the lens, and pressing one of the buttons. A purplish light in the viewfinder means it is), and you can purchase special filters which will give you an infrared image right out of the camera. In fact, the image you see here was taken right after last month's meeting, using my Olympus E-P3 and a Hoya R72 filter: the resulting image was tweaked in Aperture to produce what you see here.



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There are some challenges to this type of photography, however. The main one is that infrared filters reduce the amount of light reaching the sensor by a large amount, which means you will probably have to shoot at high ISO and a slow shutter speed (the above image was shot at ISO 1600, with settings of 1/40" and an aperture of f/2), which means either you will need a tripod, or a camera with image stabilization (I used the latter.) You are also limited in the range of infrared photography, as the image comes out of the camera with a deep reddish hue.

You can get around this by having your camera converted for infrared shooting: such conversions cost around \$300 (to start), and the end result is a camera that will shoot infrared, but is no longer capable of taking "normal" images.



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Fortunately, there is another option: do it in post! My personal software tools of choice are [Apple's Aperture](#) DAM (Digital Asset Management) software, and [Nik Software's Color Efex Pro 4.0](#) plugin. Also available as a plugin for [Photoshop](#) and [Lightroom](#), Color Efex Pro has a set of [filters](#), the one we are interested in is called "Infrared Film". This filter contains numerous recipes, which simulate both black & white *and* color infrared. You can create some very interesting images using this filter, as evidenced by the images on the left, which shows the image as originally shot, as well as a b&w and two color infrared renditions.

Hopefully I have whetted your appetite for trying out this very interesting type of photography. Feel free to experiment, and please share your results with the rest of the SIG!