

**Abort,
Retry,
Ignore....**

Founded 1984 **ARI** is the
Official Newsletter of
Computers Are Easy User Group

March 2016

Volume XXXIV Issue 3

**Confirmed
meeting
dates**

March 26 (4th)
Room A

April 23 (4th)
Room B

May 28 (4th)
Room A

June 18 (3rd)
Picnic

:: ::

Check
www.caeug.net
for confirmed
meeting dates

:: ::

**MEETING
PLACE**
is the
Glenside Public
Library

:: ::

Visitors
Welcome
**HOPE TO SEE
YOU THERE!!**

Meeting on Mar. 26 (4th Saturday) In ROOM A

Our March meeting will be an explanation
of the cables we use everyday and explains them
by Frank Braman
(see page 4 for more details about topic)

REMINDER

**It is that time of year again.
January yearly membership dues are due
For \$20.00 yearly membership you will receive:**

11 CAEUG (Abort, Retry, Ignore) newsletters
10 informative CAEUG monthly meetings
1 great annual picnic with great food
great coffee breaks
great donuts or bagels
fantastic group of people
and so much more!

See John St. Clair at the meeting to renew your membership
and continue receiving all the benefits or
use our mailing address on page 10

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Looking Back to See Forward

By Greg Skalka, President

Under the Computer Hood User Group, CA

February 2016 issue, Drive Light

www.uchug.org president (at) uchug.org

With 2015 in the rear view mirror, one starts to wonder what kind of year 2016 will be for computers and technology. We had better figure that out quickly, as almost 1/4 of the year is gone already, and before we know it Christmas decorations will be appearing in the aisles of Home Depot once again. I now prefer to avoid making New Year's predictions. A lot of interesting things happened with technology in 2015, and I'm now so good at guessing. Perhaps by considering the events, milestones and trends of last year, some useful conclusions can be made about what is likely to happen to our tech items in 2016 and further into the future. A lot of tech topics were in the news in 2015; looking back at them now may provide insight into what we will face going forward.

Automobiles. Quickly name the most powerful computing device you own. For most of us, it is probably our car. Most new cars have more than 40 embedded processors, running everything from the emissions to the entertainment system. Luxury cars may have 100 processors each. Car makers are now packing 200 lbs. of electronics in a new vehicle; though they try to shave weight from the vehicles to increase fuel mileage, the added electronics typically saves fuel by replacing heavier mechanisms. Today's cars are safer (air bags, electronic traction control and braking, tire pressure sensors, backup cameras, collision avoidance), more efficient (electronic engine control) and more capable (GPS navigation, cruise control, self-parking, Wi-Fi hub), due in a large part to electronics.

Along with all those processors come 100 million or more lines of code. That software can do great things for an automaker, or it can be their undoing. The VW diesel emissions scandal that was revealed last year, in which they admitted configuring software to cheat on emissions testing, hurt VW sales and its stock value and resulted in fines, lawsuits and recalls. There were, in fact, a record 51 million vehicles recalled in 2015, many resulting from the other major auto scandal and the problem of airbag inflators made by Takata firing shards of metal at car occupants when they inflate. In general, however, more complex vehicles and short design schedules will lead to more design problems and more recalls.

Autonomous or self-driving cars are being developed by most major automakers, including Tesla, as well as Google, Uber, Lyft and Apple. Unfortunately, the state and federal regulations to deal with this new vehicle paradigm are also still under development. Meanwhile, many automakers are introducing semiautonomous driving features incrementally. Vehicles with automatic braking and steering for collision avoidance, as well as self-parking capabilities are already available. Will the automakers get a self-driving car in the public's hands (or under their behinds) first by adding autonomous features piecemeal, or will Google and the government regulators get their vehicles and laws completed first?

Though 2015 set a record for auto sales, low fuel prices sent sales of electric cars down 17% from 2014. While new plug-in electric and hybrid models continue to be introduced, consumers

are reluctant to pay the \$8K to \$10K premium for these vehicles with gas prices so low. Only 400,000 out of the 1 million electric vehicle sales goal set by the Obama administration by 2015 had been achieved.

Going forward, consumers can expect more electronics in their cars and trucks and more electric cars in general, especially if oil prices increase sharply. If fuel prices stay low, auto makers will be conflicted, having to choose between selling bigger vehicles that consumers want and smaller, high mileage gas and electric cars that allow them to meet the much tougher 2025 average fuel economy standards. Though adding electronics tends to increase reliability, look for more recalls as the complexity of the products increases. Autonomous vehicle development has become “too big to fail”; with so many players in the market, the cars could be available in just a few years, and then the regulations will have to be resolved. This will be great for the disabled and inebriated, but devastating for bus, taxi and truck drivers.

Drones. The FAA (Federal Aviation Administration) finally released some regulations for small unmanned aircraft or drones in 2015, requiring registration for some and specifying flight rules. As with their wheeled autonomous cousins, regulations have not kept up with the technology and popularity of personal drones. Aerial firefighting efforts for wildfires last summer were interfered with by drones in a number of cases. A number of new laws relating to drones were proposed in California but none were enacted. Meanwhile, small quadcopters continue to drop in price and become more available. Fry’s has several aisles devoted to drones and their accessories.

Personal drones usually have a lot of autonomous flight capabilities, but most still require some human control, as with a radio-controlled plane. A new product to be released this summer called Lily promises to make drone photography easy for everyone (www.lily.camera). This quadcopter with built-in camera is very easy to use; it is launched by simply throwing it in the air. It tracks and follows you via a small tracking device and takes video and stills. It is in pre-sales online for \$800. This kind of device could be the next Go-Pro Hero of action cameras. If the price could come down further, it could be a big hit.

Computers. Sales of laptop and desktop computers fell slightly in 2015, continuing a trend started in 2012 when tablets began to compete with them. Tablet sales rose for several years, but were flat last year, probably because by then almost everyone that wanted a tablet had finally gotten one. Microsoft’s release of the Windows 10 operating system was supposed to spur sales of new computers, but by the end of 2015, it had only a 10% market share (less than Windows 8.1 at 10.3%, XP at 11% and Windows 7 at 56%). This was in spite of Microsoft offering it for free to existing Windows 7 and 8 users. For tablets, 57% used the Android OS at the end of 2015, while iOS had 35% of the market.

The main competition for computers and tablets at this point is the smart phone. While computers (desktops and notebooks combined) had around 300,000 shipped in 2015, and tablets an additional 300,000 units, nearly 2 million mobile phones were shipped worldwide. While smart phones and tablets may be great for web surfing and emails, most file creation work is still best done on a conventional PC, with a larger screen and full keyboard. Tax return filing season is here, and while a few may file using a tablet, I would guess the majority of filers will do so on a desktop or laptop PC (with practically none on a smart phone). I can’t see editing spreadsheets or

writing large documents on a smart phone. Even online shopping is more difficult on a smart phone's small screen. Thus I feel computers will continue to hold their percentage of market share for quite a few years into the future. It will also take a few years for Windows 10 to become the most used computer OS, but it will get there.

Smart Phones. Smart phone sales may have peaked simply because it is getting harder to find anyone that does not already have one. There are some that own no computing devices other than a smart phone, but those people are primarily content consumers, not creators. In the smart phone arena, Android is the king of the OS with 83% of the market; Apple's iOS only had 14% in 2015.

What started out as mobile device that could only make voice calls has turned into a mobile computer, web browser and instant (text) messenger. An interesting phone prediction says that one quarter of phone users won't make a single voice call in any given week this year. I would guess that trend will continue. Almost everyone will have a smart phone, but fewer people will use it as a phone.

Wearables. Activity trackers like Fitbit have been growing in popularity, with Fitbit alone selling 4.5 million units in the 3rd quarter of 2015. The Apple Watch was not far behind in sales. Still, I see the activity tracker as a useful device, while the Watch seems little more than an extension for the iPhone's ability to call. The Watch display seems far too small to be useful for reading texts.

I thought Google Glass was a clever device, though expensive. I read recently that Google may be reintroducing it or a similar product. A wearable computer like that would be useful; it just needs the right user interface. We will probably see more medical-related wearables introduced in the future.

Social Networks. Facebook is still the top social network spot on the web, with 45% of users in 2015. You Tube is the next most popular destination at 22%. All the others are in low single digits each, including Twitter, Reddit, Pinterest, Tumblr, LinkedIn and Instagram. These sites will remain popular, and though it will continue to have new competitors, Facebook will probably remain on top for some time. Tastes can change quickly in this category, however. Who remembers

March CAEUG meeting topic information

Frank Braman

What'sYour Port?

If you have ever been excitedly unboxing a brand new device only to be confused about what kind of cables it requires, and what type of port it comes with, you are not alone. There are so many different device ports in the world of technology, it's sometimes hard to decipher what ports work with what connectors. For this technical article I am exploring the wide world of ports, what they look like and what purpose they serve. I have picked a handful of some of the most popular ports on the market to examine. What'sYour Port?



Lamp Post 178

by John Spizzirri

March 2016

BGR web site posted an article about how to make the Google Chrome browser work better **(1)**. The instructions are simple. Open the browser, open a new tab, type "chrome://flags/#disable-smooth-scrolling" into the address bar **(2)** without the quotes, click Disable under the Smooth Scrolling entry, and restart the browser. That's it.

1) <https://goo.gl/jnlMHL>

2) https://en.wikipedia.org/wiki/Address_bar

Computer World Magazine published an article about how Windows 10 is getting a greater share of PCs due to the pushy upgrade tactics **(1)**. I previously warned you about how the Windows 10 upgrade would be changed from optional to recommended which automatically is installed unless you take action using GWX Control Panel **(2)** or the how to's I printed that are available on the Internet **(3)**. PC World has an article on how Microsoft's (MS **(4)**) high handed auto upgrade policy is infuriating PC users **(5)**.

1) <http://goo.gl/KbDcdK>

2) <http://ultimateoutsider.com/downloads/>

3) <http://goo.gl/MgkOcy>

4) <https://www.microsoft.com/>

5) <http://goo.gl/EmwWVS>

Computer World Magazine printed an article about what your Internet service provider (ISP **(1)**) sees and knows about you **(2)**. The Federal Communications Commission (FCC **(3)**) Chairman, Tom Wheeler, wants ISPs to get your consent before sharing what they know about you. Wheeler may use a couple of reports (both on the DVD of the Month) by private and academic sources to determine what the correct course of action is. What the reports show is that even with all the notoriety about privacy and how to protect yourself from prying eyes, most people take almost no precautions. Even with precautions, the ISP can see most traffic and make money selling profiles. One of the things that can be done for safety is the use of a virtual private network (VPN **(4)**). The problem with Most VPNs is that they cost money and they must be configured. Read the reports to make up your own mind.

1) <https://goo.gl/KuK8c5>

2) <http://goo.gl/eAppGS>

3) <https://www.fcc.gov/>

4) <https://goo.gl/7B8k1S>

The Raspberry Pi **(1)** has another new model. The model 3 B has a faster processor, 1.2GHz 64-bit quad-core ARM, integrated 802.11n wireless LAN and Bluetooth 4.1, and the standard 1GB RAM **(2)**. The price is still \$35 **(3)**. They are available at Microcenter in Westmont **(4)**. Microcenter has in store clinics on various computer subjects. On Saturday, March 26 (meeting day) and

Sunday, March 27 at 2:00 P.M. the subject is Raspberry Pi (5). If you cannot or do not want to go to the Microcenter, you can get the basics for setting up Raspberry Pi at the iMore web site (6). That site gives information on how to format the SD card (7) using an Apple Mac (8). Using a PC is similar.

- 1) <https://www.raspberrypi.org/>
- 2) <https://goo.gl/X1AI72>
- 3) <https://goo.gl/kM1uib>
- 4) <http://www.microcenter.com/#>
- 5) <http://goo.gl/nJzKkR>
- 6) <http://goo.gl/yk4i7h>
- 7) <https://goo.gl/VBDD7c>
- 8) <http://www.apple.com/mac/>

The big controversy this past month is Federal Bureau of Investigation (FBI (1)) and the Department of Justice (DOJ (2)) against Apple (3). Apple has made a public statement to its customers (4). The statement clarifies the issues. Apple has a much better opinion of the intentions of the FBI than I do. Apple says the FBI has good intentions then they fully explain that once this 'back door' (5) to the iPhone (6) is built, it can be used over and over again on any number of iPhones. The iPhone provides 'end to end encryption' (E2EE (7)). E2EE means that no third-parties can decipher the data or voice traffic being communicated or stored between two parties or entities. This is accomplished by use of 'keys' that are generated by passwords. Without the key or password, the data cannot be decrypted. The iPhone has a screen that has a unique embedded code. The iPhone password interacts with that code creating a unique key that encrypts everything stored on the phone, in the iCloud, and communication (data and voice) connections. Built into the iPhone is a timer and counter. Each time a wrong password is entered, it takes longer before a new password attempt can be entered (8). After ten unsuccessful passwords, the iPhone wipes all data stored on it. The FBI asked Apple to create an update for the phone that would remove the timer, counter, and the need to enter the password via the on screen keypad. If those things were removed, the FBI could simply create a program to enter passwords in rapid succession until it found the correct password. This update does not exist. It would require Apple to do some serious software engineering. It is not trivial. I have heard podcast pundits compare what the FBI asks to a landlord unlocking an apartment door in an apartment house. It is more akin to the landlord breaking through a brick wall and creating a new door to the apartment. I find it suspicious that the National Security Agency (NSA (9)) has not been mentioned in all this in-as-much as they seem to be the biggest invaders of privacy and hire the most sophisticated technical expertise on the planet. The Central Intelligence Agency (CIA (10)) has been trying to get into Apple phones for quite some time (11). Dan Gillmor, an American Civil Liberties Union (ALCU (12)) Technology Fellow, says the FBI already has enough technology to break the phone's encryption without assistance from Apple (13). USA Today ran an article (14) concurring that the FBI does not need Apple's help. Ed Snowden (15), the former CIA employee and NSA contractor, agrees that the FBI does not need Apple (16). He called the FBI's statements b***s***. Chris Smith from BRG wrote that if Apple created this update, it could be used on all iPhones (17). The apologists for the FBI listed in the Washington Post (18) include Donald Trump (19), Ted Cruz (20), Senator Dianne Feinstein (21), and President Obama (22). The FBI admitted that it may have mishandled the iPhone and the iCloud account data (23). It would seem to me

that the admission would have made more news than it did. The FBI instead makes more noise about Apple's non-cooperation than its failure to handle things correctly. Just before I was putting finishing touches on this Lamp Post I came across an article in BGR. Chris Smith wrote on why the NSA did not and SHOULD not get involved in this case **(24)**. The first thing I read that I had not read before is that the terrorist, Syed Farook, had destroyed his other phones and that this phone probably did not have anything of value on it. You would think that other news media would have picked up on that and printed it. So much for news media actually presenting the news. Secondly, the NSA probably does have the capability to crack this or any other iPhone (**(25)**, **(26)**). It is supposed that the NSA does not think that this phone is worth cracking or that cracking this phone would prompt Apple to fix the software so that those cracks would not work in the future. So it comes down to a risk / benefit analysis by the NSA showing that the risk is too great versus the benefits derived, thus the NSA did not crack the phone. That seems to make the most sense of this situation.

- 1) <https://www.fbi.gov/>
- 2) <https://www.justice.gov/>
- 3) <http://www.apple.com/>
- 4) <http://goo.gl/6Q5pOq>
- 5) <https://goo.gl/mC8idU>
- 6) <http://www.apple.com/iphone/>
- 7) <https://goo.gl/43f7Ci>
- 8) <https://goo.gl/lbc1DU>
- 9) <https://www.nsa.gov/>
- 10) <https://www.cia.gov/>
- 11) <https://goo.gl/FGCykX>
- 12) <https://www.aclu.org/>
- 13) <https://goo.gl/cd0h5f>
- 14) <http://goo.gl/RPftGR>
- 15) <https://goo.gl/KnZbwG>
- 16) <http://goo.gl/3xR8ZE>
- 17) <http://goo.gl/FFVzFu>
- 18) <https://goo.gl/JsdBly>
- 19) <http://goo.gl/9e0jQR>
- 20) <http://goo.gl/YmoA6i>
- 21) <http://goo.gl/ciHryt>
- 22) <http://goo.gl/dMEASI>
- 23) <http://goo.gl/YIAyWk>
- 24) <https://goo.gl/Y8KOMj>
- 25) <https://goo.gl/sMEG7o>
- 26) <http://goo.gl/miTHcY>

Between you, me and the LampPost, that's all for now.

Following is an alphabetical list of subjects covered in previous Lamp Post articles from 2015 and the month in which it appeared. To view the subject go to <http://www.caeug.net/> and click on that month ARI newsletter.

| Subject List Alphabetical | 2015 Month Lamp Post |
|--|-----------------------------|
| Airplane flight video and GPS | May 2015 |
| Alternative OSs for those who may want to switch | July 2015 |
| Amazon.com to test drone delivery with FAA blessing | Mar 2015 |
| Archery practices old and new | May 2015 |
| Berry College and Decorah eagles progress | Apr 2015 |
| Bill and Melinda Gates to re-invent the toilet | Jan 2015 |
| BitDefender data breach | Aug 2015 |
| Brooks Falls grizzly bear fishing live | July 2015 |
| Charity Navigator to check on charities | Aug 2015 |
| Charity Navigator, Charity Watch and BBB to check on | NovDec 2015 |
| Children's games and educational sites | July 2015 |
| China shutdown western news web sites | Mar 2015 |
| Comcast customer abuse and denials | May 2015 |
| Comcast promises to have better customer service | Jan 2015 |
| Copyright international rule change | Oct 2015 |
| Cracker claims On Star crack | Aug 2015 |
| DCMA prevents people from fixing products they own | Apr 2015 |
| Decorah eagles have fledged | June 2015 |
| Decorah eagles nesting | Feb 2015 |
| Decorah eagles will fledge soon | May 2015 |
| E-mail privacy and the political implications | June 2015 |
| Edge compared to other web browsers | July 2015 |
| EPIC Facebook privacy story | Jan 2015 |
| Explanation of DNA, genes, and chromosomes | June 2015 |
| FCC chair calls for broadband competition | May 2015 |
| FCC rules on Net Neutrality | Feb 2015 |
| Free credit report information | Feb 2015 |
| Freedom alert medical alert system | Apr 2015 |
| Google Chrome and safe browsing | July 2015 |
| Google gets into the cell phone business | Apr 2015 |
| Google URL shortener | Aug 2015 |
| Government employee data base cracked | June 2015 |
| Half Price Books stores and web site | Feb 2015 |
| Health insurer Anthem security breach | Feb 2015 |
| How to change update settings in Win 7 and 8 | NovDec 2015 |
| How to get rid of the get Win 10 system tray icon | June 2015 |
| How to get to Safe Mode in Win 8 and 10 | Oct 2015 |
| How to show available updates in Win 7 and 8 | July 2015 |
| How to shutdown Windows when it hangs | May 2015 |
| How to turn off automatic updates | Oct 2015 |
| Instances of poor customer service at Comcast | Feb 2015 |

| | |
|--|-------------|
| Internet Explorer killed by MS | Mar 2015 |
| Internet of Things comments by John McAfee | Aug 2015 |
| IRS data base cracked | June 2015 |
| Joan Thompson obit | Jan 2015 |
| LastPass attacked unsuccessfully | June 2015 |
| Memex search engine developed by DARPA | Mar 2015 |
| Most popular scams exposed | Aug 2015 |
| MS announces Windows as a Service | Feb 2015 |
| MS bad update causes 'not genuine' trouble | Jan 2015 |
| MS developed a Linux distribution | Sept 2015 |
| MS Office alternatives | Feb 2015 |
| MS spys on you | Sept 2015 |
| Netflix raises its prices | July 2015 |
| Netflix, Movietube, and Youtube movies to watch | Feb 2015 |
| Network World tips - safe WiFi usage & Linux distros | NovDec 2015 |
| NSA may be able to crack all encrypted data it has | Oct 2015 |
| NYTimes article on personal data exposure | Aug 2015 |
| Orthopedic help web site from Northwestern Medicine | Sept 2015 |
| OS percentages on computers worldwide | June 2015 |
| Patch Tuesdays are gone - patches happen at random | Aug 2015 |
| Patch Tuesdays will not be on Tuesdays | May 2015 |
| PBS Nova program on Cyber War Threat on DVDom | Oct 2015 |
| Pirate Bay back in business | Mar 2015 |
| Playing tetris in order to quit smoking, lose weigh | Aug 2015 |
| Privacy, NSA, and what to do about it | Mar 2015 |
| Problems upgrading to Win 10 | Aug 2015 |
| Raspberry PI 2 introduced | Feb 2015 |
| Salty Girls photo shoot for Cystic Fibrosis | May 2015 |
| Save WiFi campaign on FCC rule change | Oct 2015 |
| Scientist issue an Artificial Intelligence warning | Feb 2015 |
| Seminar (IVNUA) content description | Apr 2015 |
| Seniors targeted for ID theft via SSN | Oct 2015 |
| Snowden - new revelations | June 2015 |
| Stealing phone passwords from body language | Apr 2015 |
| Stolen user names and passwords can check if you are | Feb 2015 |
| Tornado and sever storm seminar at FermiLab | Mar 2015 |
| Turn Youtube videos to MP3 websites | Sept 2015 |
| U.S. Internet is slow | Feb 2015 |
| Win 10 - how MS will make up the lost income | June 2015 |
| Win 10 available on a USB flash drive for the first | July 2015 |
| Win 10 bugs at this date | Aug 2015 |
| Win 10 first big update (service pack) | NovDec 2015 |
| Win 10 forced update date set | NovDec 2015 |
| Win 10 forced updates | July 2015 |
| Win 10 free upgrade | Mar 2015 |
| Win 10 news | May 2015 |
| Win 10 nomenclature changes | Feb 2015 |
| Win 10 preview release schedule | Mar 2015 |

| | |
|---|-------------|
| Win 10 re-installation problems solved | Mar 2015 |
| Win 10 spying on users - how to turn it off | Aug 2015 |
| Win 10 tutorial on line and DVDom | Sept 2015 |
| Win 10 upgrade requirements | Mar 2015 |
| Win 10 upgrade scam e-mail | Aug 2015 |
| Win 7 and 8 support end dates and recommendations | NovDec 2015 |
| Win 7 update stops SandboxIE-reload SandboxIE v5.06 | NovDec 2015 |
| Win SmartScreen Filter troubles | NovDec 2015 |
| Win XP security software-MS has stopped all support | July 2015 |
| Words and saying web site | Apr 2015 |
| Yahoo fires workers in a 'restructure' | Feb 2015 |

March 2016 DVDom

AdvancedOnionRouter - Portable client for TOR

ARI - Monthly newsletter

ArsClip - Clipboard tracker

AudioBook - Free audio book

AuslogicsDefrag - Updated disk defragger

cCleaner - Updated disk cleaner

DVDomlists - Contents of CDs and DVDs of the Month

FreeMusic - Search and download free music

Kodi - Search and display media

MalwarebytesChameleon - Install antivirus when it won't let you

MemberContributions - Things members send me

Mixxx - Audio mixing program

MP3Rec - Record and play mp3 files

OceanAudio - Audio editing program

OldTimeRadio - Old radio audio files

OpenOffice - Updated office suite

RestorePointCreator - Easy way to create a restore point

StartupSentinal - Control what programs start with Windows

Sumo - Scan for out of date software

Teamviewer - Remote control software

TimeLapseTool - Create time lapse movie from photos

Unison - Cross platform file synchronizer

USBdrvLtr - Control USB drive letters

Meeting Location and Special Accommodations

The Glenside Public Library address is at 25 E Fullerton Avenue, Glendale Heights, Illinois. Please park away from the building. Thank you. The meeting(s) are not library sponsored and all inquiries should be directed to Mike Goldberg at

Individuals with disabilities who plan to attend this program and who require certain accommodations in order to observe and / or participate in the program are requested to contact CAEUG president, Mike Goldberg, at least five (5) days prior to the program, so that reasonable accommodation can be made.

Mailing address:

CAEUG
P.O. Box 2727
Glen Ellyn, IL 60138

Members Helpline

Any member with a specific expertise can volunteer to be on the Members Helpline.

Hardware problems, XP,
Win 7, Linux
and Virus Removal
- John Spizzirri

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REMINDER:

Your annual CAEUG dues are due.
See John St. Clair at the
meeting or use our mailing address