

# Bits of Bytes

Newsletter of the Pikes Peak Computer Application Society, Colorado Springs, CO

Volume XXXVI

July 2016

Issue 7



## The Prez Sez

by Cary Quinn, President, P\*PCompAS

Being this month is in the spirit of independence, we will have some independent video presentations from recent APCUG conferences.

I hope you will find them useful for the start of a happy and safe summer. ☺



## Meeting Minutes

by Toni Logan, Secretary, P\*PCompAS

The 4 June 2016 membership meeting was called to order at 9:05 am. President Cary Quinn thanked everyone for attending. He reminded us that the refreshments are free for 1<sup>st</sup> time guests and a donation for all others. The coffee is compliments of Starbucks at the Citadel Crossing.

There was a motion to accept the minutes of the last meeting as printed in the newsletter. The motion was seconded and passed.

## REPORTS

The Secretary reported that she will miss the next two meetings and asked for someone to take the minutes.

Treasurer Bill Gardner reported that we have a total of \$6132.48 in

## Next P\*PCompAS meeting: Saturday, 2 July 2016

We will view some recent APCUG conference videos.

the credit union.

Newsletter Editor Greg Lenihan said that the deadline for the next newsletter is Saturday, June 18, and he passed out extra copies of the newsletter.

Cary Quinn reported that Board member Warren Hill had resigned and we will need to elect a replacement for him.

APCUG representative Joe Nuvolini said that they were still messing with the APCUG website and it should be finalized soon.

## OLD BUSINESS

Joe Nuvolini had contacted the church concerning our yearly gift and they suggested they might need tech support. Also, Joe bought 8 GB of memory for the club's computer at a cost of \$37.03. It was also mentioned that CompuXparts was closing. A good alternative is PC Brokers off Academy on Austin Bluffs.

## NEW BUSINESS

The next meeting will be on Saturday, July 2, 2016. A guest was also recognized, Jean Jurgensen, sister of Toni Logan, was visiting from The Woodlands, Texas. The meeting was adjourned.

## AROUND THE ROOM

The Around the Room audio file can be found on the club's website.

## PROGRAM

The program consisted of a discussion of many of the facets of Windows 10.



Cary Quinn led the Windows 10 discussion at the June meeting.

## DRAWING

Stylus for computer (2)—A. J. Whelan and Dennis Conroy  
LAN Card—Cary Quinn ☺

## Meeting Note for July

The church notified our club that the front doors to the church presently cannot be unlocked from the outside. The doors are being replaced in mid-July, but for our 2 July meeting, one of our members with a key will go through another entrance, then prop the regular door open. Just be advised that the door should not be closed until after the meeting, when everyone has left. ☺

## In This Issue

### Articles

An E-mail to the Editor.....	5
Customizing Windows 10.....	3
Nybbles and Bits.....	2
What's New in the Latest Win 10 Insider Preview.....	4

### P\*PCompAS

Meeting Minutes.....	1
Prez Sez.....	1



## Officers

**President: Cary Quinn**  
*cary.quinn@gmail.com*

**Vice President: Harvey McMinn**  
*harveys\_homes@yahoo.com*

**Secretary: Toni Logan**  
*bradtonilogan@gmail.com*

**Treasurer: Bill Gardner**  
*wgplace@comcast.net*

## Staff

**APCUG Rep/Webmaster: Joe Nuvolini**

**Editor: Greg Lenihan**  
**Librarian: Paul Godfrey**  
**Membership: Ann Titus**

## Committees

**Hospitality: Pat Krieger**  
**Programs: Paul Godfrey, Toni Logan, and Peter Rallis**  
**Publicity: Harvey McMinn**  
**Nominating: Vacant**

## Board of Directors

**Norm Miller**  
**Bob Blackledge**  
**Warren Hill**  
**John Pearce**  
**Joe Nuvolini**

## Nybbles and Bits

by John Pearce, P\*PCompAS

An article I read recently suggested that e-mail is safer than text messages for verification codes such as those used in two factor authentication. I have to admit that I have not been a big fan of two factor authentication. I have set it up when absolutely required (think Google and Yahoo). Many banks and other financial institutions offer, or even require, two factor authentication for access to their systems.

So why e-mail rather than text messages? It is related to security flaws in Signaling System No. 7. SS7 is used by telephone companies and cellular services around the world. It uses a dedicated channel for administrative functions like call setup and accounting as well as for data including text messages. SS7, like the Internet, was originally built based on trust and without concern for security. It is possible for an intruder to intercept and monitor phone calls and redirect text messages to a different mobile phone number.

There are links below to articles on the vulnerabilities with SS7. If you only read one, please read the first article in the list. It presents the subject matter in a way that is easy to read and understand.

[SS7 hack explained: what can you do about it?](#) The Guardian, April 19, 2016

This article is a rebuttal to the article published by The Guardian. [SS7 Vulnerability Isn't a Flaw — It Was Designed That Way](#). Security Intelligence, April 26, 2016



This is a somewhat more comprehensive and detailed report on the security problems with SS7. [8 SS7 vulnerabilities you need to know about](#). Cellusys, October 20, 2015

The SS7 vulnerabilities were discovered by two Germans. [German researchers discover a flaw that could let anyone listen to your cell calls](#). The Washington Post, December 18, 2015

Earlier in 2016, the CBS program *60 Minutes* reported on the SS7 vulnerabilities and demonstrated how the cell phone of U.S. Rep. Ted Lieu in Los Angeles could be tracked from Berlin. This article is a follow-up after the *60 Minutes* program aired.

[U.S. carriers mum on 60 Minutes report on vulnerability in SS7](#). Fierce Wireless Daily Newsletter, April 19, 2016. ☺

## In Memoriam



**Bill Jones**

**30 Nov 1943 —  
7 June 2016**

**With sadness, our club announces the passing of one of our members in June, and offers our condolences to the Jones' family.**

The Pikes Peak Computer Application Society newsletter is a monthly electronic publication. Any material contained within may be reproduced by a nonprofit user group, provided proper credit is given to the authors and this publication, and notification of publication is sent to the editor. Any opinions contained in this newsletter are made solely by the individual authors and do not necessarily reflect or represent the opinions of P\*PCompAS, its officers, or the membership. P\*PCompAS disclaims any liability for damages resulting from articles, opinions, statements, representations or warranties expressed or implied in this publication.

P\*PCompAS welcomes any comments, letters, or articles from members and non-members alike. Please send any articles to the editor (see last page for address). The editor reserves the right to reject, postpone, or edit for space, style, grammar, and clarity of any material submitted.

## Customizing Windows 10

By Ann Titus, P\*PCompAS

I want to bring to your attention a recent article that appeared in C|Net that I used for folks that attended my workshop. The article is *The Complete Guide to Customizing Windows 10* by Sarah Jacobsson Purewal and can be found at <http://www.cnet.com/how-to/the-complete-guide-to-customizing-windows-10/>

When going to the above link, you find more than a dozen sub-articles. They are described and linked below.

- 1. Windows 10 Settings menu: The Personalization tab:** A look at Windows 10's new Personalization settings -- the bedrock of all your visual customization needs.
- 2. How to customize the Windows 10 Start menu:** We were all excited about the return of the Start menu -- even though it's more like a hybrid of the Windows 8 Start screen and the Windows 7 Start menu rather than a traditional Start menu. Here's how to make it yours.
- 3. Pin links to the Start menu from any browser:** Put your favorite links on the Start menu, no matter what web browser you favor.
- 4. 10 ways to customize the taskbar in Windows 10:** If you're like me, the taskbar -- not the Start menu -- is the real workhorse in Windows 10.

**5. How to disable the Windows 10 lock screen:** Windows 10 is designed for every device, including mobile devices, which is why it has a lock screen *and* a log-in screen. But for many of us desktop and laptop users, the lock screen is redundant and inconvenient. Here's how to get rid of it.

**6. Make people jealous of your lock screen with Windows Spotlight:** If you must have a lock screen, it might as well look awesome with pretty, high-res photos from Windows Spotlight feature.

**7. How to uninstall default apps in Windows 10:** Windows 10's default apps don't take up a lot of space, but do visually clutter up your Start menu (especially if you don't use them). Here's how to uninstall them (and how to reinstall them).

**8. 3 ways to customize Microsoft Edge:** Microsoft's new Edge browser is a work-in-progress, but here's what you can do right now to make it look pretty.

**9. How to get the home button back in Edge:** Edge has decided to take a leaf out of Google Chrome's book and be too cool for a home button. But some of us *like* home buttons, so here's how to get it back.

*Continued on page 4*



First off, apologies to Charles Richards, who is probably the person at the right who was cut out of the June breakfast picture. Otherwise, the breakfast was well-attended, and enjoyed by all.



## What's New in the Latest Windows 10 Insider Preview

By Chris Hoffman, reprinted with permission from [HowToGeek.com](http://HowToGeek.com)

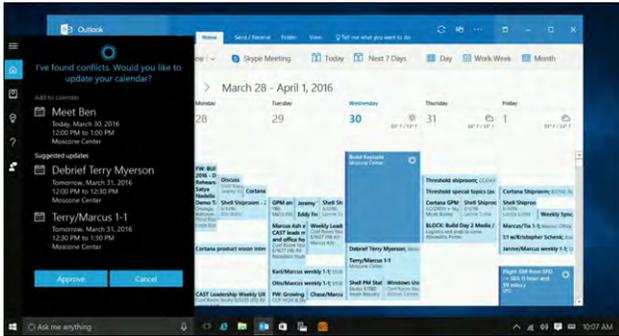
Original article at: <http://www.howtogeek.com/2248177/whats-new-in-windows-10s-anniversary-update/>

Windows 10's next big update, dubbed the "Anniversary Update", comes out this summer. Here's [what's been announced so far](#), along with a few goodies we've discovered in [the first](#), [second](#), [third](#), and [fourth Insider Preview builds](#).

While Microsoft hasn't officially announced a release date, a [roadmap](#) on Microsoft's website promises these new features for "July 2016." We're guessing it'll be released on July 29, 2016, which is the one-year anniversary of Windows 10's release.

*This post was originally written on March 30, 2016, but has since been updated with features from the Insider Previews—the latest being build 14352.*

### Cortana Becomes a Whole Lot Smarter



Arguably the biggest update is Cortana. Microsoft continues to expand on what Cortana can do, clearly trying to make it the most powerful assistant in an increasingly growing pool of competition (Siri, Google Now, Alexa, and the whole gang). This time around, Cortana comes to the Windows 10 lock screen, so you can invoke her at any time. And, she can push stuff to and from your mobile device, including notifications and text messages. (And remember, since Cortana is available on Android too, that doesn't mean you need a Windows Phone to take advantage.)

More interestingly, though, Cortana can parse even more information about stuff it thinks you might need. For example, the on-stage demo showed us that Cortana can respond to things like "Send Chuck the PowerPoint I worked on last night", or "What toy store did I visit at Build last year?" That's pretty crazy. Of course, if you're more privacy-conscious, that's crazy in all the wrong ways—but it's a pretty tempting set of features.

Cortana can also make proactive suggestions for you. If you receive email confirmation of flight details, it'll add them to your calendar. If you promised Chuck you'd send him that PowerPoint in an email, Cortana will know, and remind you to fulfill that commitment later on.

Furthermore, if you add an appointment to your calendar, it'll know if that appointment overlaps with another, and ask you if you want to re-schedule one of the overlapping events. Or, if you have a meeting during lunch it'll ask if you want to book a table, or make a to-go order, based on the apps you have available. In short, Cortana is getting more proactive, so you don't have to be on top of your own stuff—and isn't that what having an assistant is all about?

### Windows 10 Interacts with Your Android Phone (or Windows Phone)

This isn't finished in the Insider Preview yet, but after the Build keynote, Microsoft also announced that Cortana will now integrate with the Cortana application on your Android or Windows smartphone. You'll just need to install the [Cortana Android app](#) and sign in with the same Microsoft account on both devices. iPhone users are out of luck, as iOS is too locked down

*Continued on page 5*

#### Customizing Win10 (Cont. from page 3)

10. **Here's how to get rid of Internet Explorer:** Edge is *such* a work in progress that Windows 10 also ships with Internet Explorer 11. You can't really uninstall IE11, but you can hide it so you don't have to look at it.

11. **Force Cortana to use Google instead of Bing:** Make Microsoft's virtual assistant use the Web search engine of your choice.

12. **Get rid of default cloud service icons in File Explorer:** Cloud storage service icons show up in the left menu of your File

Explorer, whether you want them to or not. But you can remove them with a relatively simple Registry hack.

13. **How to change your computer's name in Windows 10:** What's customization if you can't customize your PC's name? ☺

## An E-mail to the Editor

From: Grimp Producer  
[grimproducer@yahoo.com](mailto:grimproducer@yahoo.com)

hey there Greg,  
 My name is Brent and i live here in the springs. a member of your group i met at a garage sale told me about you guys and i wanted to offer up to any of your members that if they would like to clear out any of their old computers,

electronics, or music equipment, I'd be happy to come and take the stuff off their hands, and if it's really cool stuff maybe even throw them a bit of cash. i am a collector and NOT a reseller and i am trying to collect enough stuff to one day make a computer museum and preserve computers from the past. I am also considering joining the group when i get some more free time on Saturdays. Anyway if any of your members would like to get

rid of their electronics feel free to give them this email.. or text me at 469-463-8491. thanks so much and have a great day .

-Brent-

P.s. if you know of anywhere else i might be able to rescue old computers from being recycled and thrown away, any tips would be awesome. ☺

### Win 10 Insider (Cont. from page 4)

for Microsoft to integrate with it as deeply. As of build 14328, this should be working between Windows 10 PCs and Windows Mobile 10 phones running the latest builds. It now works between Android phones and Windows 10 PCs, too—just be sure you have the latest [Cortana app](#) installed from Google Play.

Cortana can mirror all your Android phone's notifications to your PC, giving you all your notifications in Windows 10's Action Center. You'll also see a notification on your PC when your smartphone has low battery power, so you'll know when to charge it. Cortana will offer a "find my phone" feature that can remotely geolocate your phone on a map or ring it if you lose it nearby. Ask Cortana for "directions to [place]" on your PC, and you'll see those same directions on your phone. These are just the current features, too, so you can expect Microsoft to add more.

Cortana will also support something called "Messaging Everywhere," although it wasn't yet enabled when build 14316 was released. Receive an SMS message on your phone and it'll pop up on your Windows 10 PC. You can respond from your computer and the message will be sent through your phone. The various features are already integrated into the Messaging app on Windows 10.

### More Desktop Apps and Games Come to the Windows Store

The Windows Store is caught in a tough place right now. [We want it to get more desktop apps and games](#), but we don't want them limited by the Universal Windows Platform (UWP). Microsoft is trying to fix that disconnect in the Anniversary Update.

Regular desktop apps are finally coming



to the Windows Store—at least, as long as developers "convert" them to the UWP. This allows for the easy discovery and installation of the Windows Store, but supposedly comes without all the limitations UWP apps traditionally have. We still aren't quite sure what this means, and which apps might be candidates for a clean conversion without limitations, but it's an intriguing proposition.

Microsoft will soon release a tool that allows anyone to convert any desktop application on their computer to a sandboxed UWP application. The tool will watch the desktop application run and create a sandboxed application with the appropriate permissions. Developers can use this to convert their own apps for uploading to the Windows Store. You could use it to convert an old desktop application to a UWP application and [sideload the application](#), installing it from outside the Store, if you wanted to.

Games are a big part of this. We've already seen that [games bought from the Windows Store are missing certain features](#), like SLI and crossfire support, or the ability to toggle Vsync and borderless full screen. Microsoft says they're addressing these issues, adding the ability to disable Vsync, better support for multiple GPUs, and more—including support for modding, overlays, and G-Sync and Freesync. That's in addition to the UWP-exclusive features

*Continued on page 6*

### *Win 10 Insider (Cont. from page 5)*

they have, like live tile support and notifications. Microsoft also says they'll soon support bundles and season passes in the Windows Store. But only time will tell if games get feature parity with their regular desktop counterparts.

### **Windows 10 Gets a Dark Theme (and More Theme Options)**

When Windows 10 was released, it included a [hidden dark theme](#) you could enable by changing a registry setting or by pressing a secret keyboard shortcut in the Store app. You could also change your theme in the Edge browser—but just for Edge. This theme was incomplete. With the Anniversary Update, you can now choose between light and dark modes in Settings > Personalization > Colors. It's designed for Windows Store apps, but not every app will listen to this setting and obey it—some apps, especially those from third-party developers, control their own theme settings. This also means File Explorer will remain as blindingly white as ever.

There's also now a separate “Show color on title bar” option here, allowing you to only [apply your color of choice to the window titlebars](#) and continue using a black Start menu, taskbar, and action center.

### **Microsoft Edge Finally Supports Browser Extensions**

Microsoft Edge was originally supposed to launch with browser extensions when Windows 10 was released, but it didn't happen. This is a big reason Microsoft Edge felt so half-baked and lost so many users. With the Anniversary Update, Edge will finally support browser extensions.

Edge uses Chrome-style extensions, and Microsoft will provide a tool that helps developers quickly convert Chrome extensions to Edge extensions. ([Firefox is also moving to Chrome-style extensions](#), too.) These Edge extensions are already available in the Windows Store, which is where you'll install them. Extensions are currently available for the Reddit Enhancement Suite, Microsoft Translator, Pinterest, OneNote, Adblock, Adblock Plus, and LastPass.

### **Edge Gets Click-to-Play Flash, Pinned Tabs, Web Notifications, and Swipe Navigation**

[Setting the Flash plug-in to click-to-play](#) can help you avoid Flash's security holes and battery-draining behavior. Edge currently doesn't offer much control over Flash, with only a single browser-wide [“Use Adobe Flash Player” option](#) in

its settings.

Microsoft has [announced](#) that, with the Anniversary Update, Edge will automatically pause Flash content that isn't integral to the page and you'll have to click it to play. Games and videos on web pages should work normally, but Flash advertisements won't automatically play. Google Chrome already made this change, so Edge is following in Chrome's footsteps here, too. This isn't in the Insider Preview just yet, but hopefully it will be soon.

Edge allows you to [pin tabs](#), like other modern browsers do. Just right-click or long-press a tab and select “Pin.” The tab will turn into a small icon at the left side of your tab bar, and it'll always appear when you open Edge. This is ideal for websites you always want open, like email and social-networking sites.

Microsoft is also adding support for web notifications. When you visit a website, it can ask you to allow notifications. That website can then deliver notifications to you and they'll appear in your Action Center—all without you installing an app. This feature is already enabled, and works in Skype for Web. Click the notification and you'll be taken directly to the website that displayed it.

If you have a touch screen, you'll be happy to hear that a useful feature from Windows 8's “Metro” version of Internet Explorer has now returned to Edge. Edge now allows you to swipe to navigate. Swipe anywhere left or right on a page to go back or forward. It's more convenient than tapping those small “Back” and “Forward” buttons with your finger.

### **Windows Hello Brings Fingerprint Authentication to Apps and Website**

Fingerprint sensors have been a huge convenience on phones and tablets, and Windows currently supports it for logging into your laptop too via [Windows Hello](#)—provided it has the necessary hardware. But in the Windows 10 Anniversary Update, Windows Hello will support Windows apps and Microsoft Edge, so you can securely log into apps and web sites using your fingerprint as well—not just Windows itself.

This actually uses [the Fido U2F standard](#), which various other sites and browsers are implementing in different ways. For example, you can [use a physical USB key](#) to log into your Google account in Chrome.

*Continued on page 7*

*Win 10 Insider (Cont. from page 6)*

### **Windows Hello Lets You Unlock Your PC with “Companion Devices”**

This feature hasn't arrived in the Insider Preview builds yet, but [developer documentation](#) reveals the new “Companion Device Framework” for unlocking your PC. Windows Hello—which currently supports unlocking your computer with your face or fingerprint—will allow you to unlock your PC with “companion devices.” For example, this could include a [Microsoft Band fitness band](#) or any type of smartphone.

Microsoft suggests a number of examples. You could insert a [USB security token](#) into your PC's USB port and press a button or tap a device on an [NFC reader](#). Your phone could be already paired with your PC over Bluetooth and your PC could send a notification to your nearby phone, which you could use to unlock your PC. A fitness band that can authenticate its wearer could unlock your PC when you clap nearby.

### **Windows Ink Improves Digital Drawing and Annotation in Lots of Apps**

[Touch screen laptops are more useful than they seem](#), and Microsoft is pushing that forward even more with Windows Ink: the ability to draw and annotate with a pen in all kinds of useful ways. For example, you can jot down notes in the Sticky Notes app, which on its own is mildly convenient. But Windows 10 is smart enough to recognize words like “tomorrow”, turn them into links that Cortana can use to set reminders or perform other tasks. This works with other words too, including places that Bing can point to on a map.

Windows Ink is built into plenty of other apps, too, like Maps (which lets you measure distances between two points by drawing a line) and Microsoft Office (which lets you highlight text with your pen or delete words by striking them out). And, of course, it's built for artists as well, which can use a pen for digital drawing in plenty of different apps. There's a virtual ruler complete with a compass to help you draw straight lines at the correct angles.

A new “Ink Workspace” also arrives in Windows 10. Press a button on your pen—if your pen has a button—and you'll see a list of apps that support ink input so you can quickly start writing or drawing without fumbling through desktop windows. You can also click or tap the pen button that will automatically appear in your taskbar's notification area. If you don't have pen paired with your device, you can right-click the taskbar and select

“Show Windows Ink Workspace” to enable it manually. More Windows 10 apps will gain inking support, too.

The Pen settings page at Settings > Devices > Pen now allows you to choose what happens when you press the button on the pen—for example, you could open the OneNote app directly. You can also choose to ignore touch input on the screen while using the pen, ensuring you don't accidentally tap anything while drawing.

### **Wi-Fi Sense's Controversial Password-Sharing Feature is Gone**

Microsoft has removed the [controversial Wi-Fi Sense feature](#) that allowed you to share Wi-Fi network and their passwords with your Facebook, Outlook.com, and Skype contacts. Microsoft never did a good job of explaining this feature—perhaps it would have been more popular and less controversial if Microsoft had. Either way, Microsoft says very few people actually used this feature, so it wasn't worth the effort to keep it around.

Wi-Fi Sense isn't completely gone, but it now connects you only to public hotspots. It won't connect you to a private Wi-Fi network and no longer offers a way to share your Wi-Fi credentials with others. You can find what remains of Wi-Fi Sense under Settings > Network and Internet > Wi-Fi.

### **Windows Defender Can Provide Additional Protection If You Use Another Antivirus**

In the current version of Windows 10, the Windows Defender anti-malware application automatically disables itself if you install another anti-malware program.

In the Anniversary Update, however, Windows Defender receives a new [“Limited Periodic Scanning”](#) feature. It can automatically turn itself on and scan your system occasionally, even if you have another antivirus program installed. Windows Defender gives you a second layer of protection, or a “second opinion” on whether your computer is infected.

Just head to Settings > Update & Security > Windows Defender and turn on the “Limited Periodic Scanning” feature to enable this. This option will only appear if you have another antivirus program installed, and it isn't on by default. If you're only using Windows Defender as your antivirus, it's already scanning your

*Continued on page 8*

*Win 10 Insider (Cont. from page 7)*

computer—both with scheduled and real-time scans.

### New PCs Will Include More Advertisements in the Start Menu

Windows 10's Anniversary Update makes more room for advertisements in the Start menu on new installations. The amount of Microsoft app tiles pinned to the Start menu by default will be reduced from 17 to 12. The amount of "suggested apps" that appear here will increase from 5 to 10.

Uninstall the app—or unpin the tile if it's not downloaded yet—and that advertisement will be gone forever. But, as easy as these advertisements are to remove, new PCs will have a more cluttered Start menu with more ads. [Neowin](#) noticed this information in a presentation directed at device manufacturers.

### Cortana Gets More Useful Features

Cortana also includes new reminder features, including "photo reminders." For example, you could take a photo of a product you want to buy the next time you go shopping and tell Cortana to remind you with the photo the next time you're at the grocery store,

If you have the Groove Music Pass—that's Microsoft's version of an unlimited music streaming service like Spotify, Apple Music, or Google Play Music All Access—Cortana can now play music you request. Just say "Hey Cortana, play [song name]", "Hey Cortana, play [artist name]", "Hey Cortana, play [Groove Music playlist]", and "Hey Cortana, pause" to control this. This only works if you're using the US English region at the moment.

Cortana can also now set and control timers, which is convenient. Say things like "Hey Cortana, set a timer", "Hey Cortana, set a timer for 10 minutes", "Hey Cortana, how much time is left?" and "Hey Cortana, cancel my timer" to work with timers.

Despite all these powerful features that require Microsoft accounts and personalization, Cortana is becoming more friendly to people who haven't set it up yet. You'll be able to ask Cortana simple questions and get answers without actually setting up and personalizing Cortana first.

### The Combined Skype Universal App is Back

Microsoft has changed its mind about Skype... again.

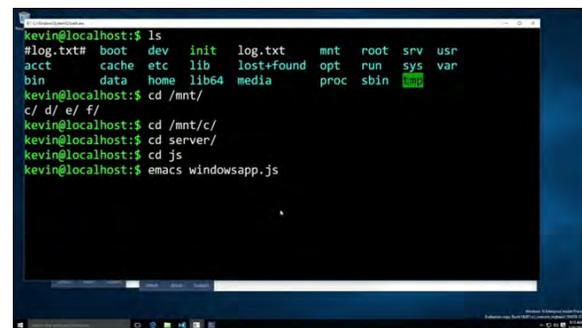
With Windows 8 and 8.1, Microsoft offered both "Skype for Windows" and "Skype for Windows desktop" applications. The "Modern" Skype for Windows application ran in the full-screen interface and was pretty flaky. Microsoft abruptly discontinued

the Modern version of Skype a month before Windows 10 was released, announcing it was refocusing development attention on the desktop version of Skype Windows users actually used.

Windows 10 launched with a Get Skype application that encouraged you to download the desktop application. Windows 10's first big update, the November update, added a few beta applications—Messaging, Phone, and Video—apps that worked with Skype. These are separate applications for text messages, audio calls, and video calls.

Microsoft has now changed its mind again and will discontinue those three separate Skype applications on the desktop. Instead, Microsoft will create a new universal Windows app version of Skype that will eventually replace the traditional desktop application when it has enough features. The Skype Preview application is now available.

### Windows Gets Its Own Linux Command Line



```

kevin@localhost:~$ ls
#log.txt# boot dev init log.txt mnt root srv usr
acct cache etc lib lost+found opt run sys var
bin data home lib64 media proc sbin
kevin@localhost:~$ cd /mnt/
c/ d/ e/ f/
kevin@localhost:~$ cd /mnt/c/
kevin@localhost:~$ cd server/
kevin@localhost:~$ cd js
kevin@localhost:~$ emacs windowsapp.js

```

In between all the developer talk, Microsoft announced something pretty huge: A true Bash shell in Windows 10. This is not a port like Cygwin, or a virtualization. It's a full Ubuntu command line running natively right in Windows, built in partnership with Canonical. It comes with apt-get to download command line binaries, and all the built-in tools you'd expect from a Linux shell, like `ls` to browse your filesystem. This is mostly a tool for developers, but cross-platform power users may find this particularly useful as well.

This is actually the full Ubuntu userspace running on Windows. Think of it like the reverse of Wine—Windows is gaining the ability to run Linux binaries natively on Windows. This is big news for developers, but it won't support server software or graphical applications. It's just a Bash shell, complete with support for the exact same binaries you'd run in a Bash shell

*Continued on page 9*

*Win 10 Insider (Cont. from page 8)*

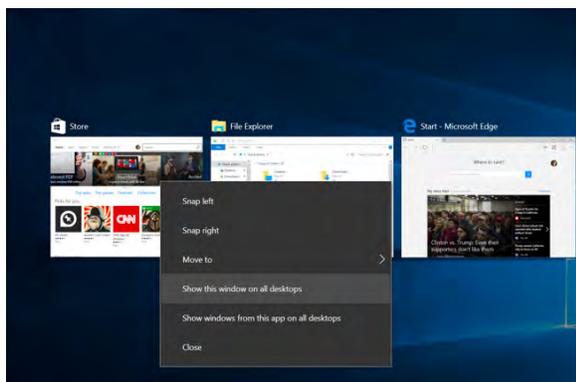
on Ubuntu Linux, on Windows. You should eventually be able to launch more shells from the Bash shell, too—the release notes now say the popular Zsh shell is now functional. Check out [our guide for info on how to set it up](#).

**The Start Menu Has Been Redesigned**

Microsoft has changed the way Windows 10's Start menu works. The "All Apps" option is now gone—you'll just see a full list of installed applications at the left side of your Start menu. Your most frequently used and recently added applications will appear at the top of this list. It'll show the three most recently added applications instead of a single one, and you can expand this list to see more applications sorted by when you installed them.

Important buttons like the File Explorer, Settings, and Shut Down buttons are now always located at the left side of the Start menu.

OneDrive users will be happy to know that they can now search all their files—both files on the PC and files stored online in OneDrive—from the Start menu.

**Task View Gets Some Improvements**

You can now pin windows in the [Task View interface](#), making them always appear on every virtual desktop instead of a single virtual desktop. Right-click a window in the Task View interface and select "Show this window on all desktops" to pin it. For example, you may want to pin a messaging or music application to all desktops for easy access.

There's now a new [touchpad gesture](#) for switching between multiple desktops, too. Just place four fingers on your touchpad and swipe left or swipe right. This requires a certified "precision touchpad," so it won't work with all touchpads. And yes, this is the same touchpad gesture Apple uses on Macs.

**Tablet Mode is More Like Windows 8**

Tablet Mode sees some helpful improvements that will make Windows 10's Tablet Mode function more like Windows 8's full-screen "Metro" interface.

When your system is in Tablet Mode, the All Apps list will now appear in full-screen mode—just like on Windows 8. You can toggle between the tiles view and list of apps with options at the left side of the screen.

You can also choose to automatically hide the taskbar while in tablet mode. These options are available under System > Tablet Mode in the Settings app. With auto-hide enabled, you can swipe up from the bottom of the screen to show or hide the taskbar. The entire screen will be reserved for the app you're currently using.

**The Taskbar Gets Calendar Integration and More**

The Windows taskbar sees some important improvements, too. The taskbar clock is now integrated with your calendar, so you can click or tap the time and see a list of the calendar events you have scheduled for today. Tap an event—or tap the "+" button to add an event—and the Calendar app will open.

The sound panel is also more useful. You can click or tap the speaker icon and switch between multiple output devices—like speakers and headphones—if you have more than one connected.

Taskbar settings are now integrated into the new Settings app, and you can access them at Settings > Personalization > Taskbar. You can also just right-click the taskbar and select "Settings" to open this new screen.

**The Lock Screen is Improved, Too**

Microsoft heard user complaints, and your email address will no longer appear on your lock screen if you sign in with a Microsoft account.

*Continued on page 10*

### *Win 10 Insider (Cont. from page 9)*

This helps preserve your privacy. You can re-enable this from Settings > Accounts > Sign-in options > Privacy, if you like, displaying your email address directly on your lock screen.

The lock screen now features built-in media controls, which appear at the bottom-right corner of the screen along with album art for any playing music. You can control music playback without unlocking your PC.

Cortana can now be used on your lock screen, too. Head to Cortana's Settings, find the "Lock screen options" section, and activate the "Let me use Cortana even when my device is locked" option. With "Hey Cortana" enabled, you can talk to your computer even while it's locked. For sensitive tasks, you'll be asked to unlock your PC first.

### **Battery Options Become More Powerful**

The Battery Saver screen under Settings > System was renamed Battery.

Its detailed screen now offers easy per-application settings for controlling whether an application can run in the background. Aside from "Always allow in background" and "Never allow in background," there's a new "Managed by Windows" option. Windows will try to be smarter, temporarily turning off applications if they're using a lot of resources in the background and you don't appear to be using the applications.

### **Windows Update is More Respectful of Your Time**

Under Settings > Update & Security > Windows Update, you can now set your "active hours," which are the hours when you're most actively using your computer. Windows Update will avoid restarting to automatically install updates during those hours.

### **The Action Center is More Convenient and Customizable**

It's easier to get to the Action Center. The Action Center button is now located at the far right corner of the taskbar, making it easier to find. It's no longer mixed in with the other system tray icons. Notifications are now grouped by app in the Action Center. They'll take up less screen space, and you can see more notifications at once.

You can now quickly dismiss notifications in the Action Center by middle-clicking them. Middle-click an application's name in the Action

Center and Windows will dismiss all notifications associated with that application.

These notifications are now more customizable, too. Under Settings > System > Notifications & Actions, you can now choose whether an application's notifications are considered "Normal," "High," or "Priority" in the Action Center. You can also choose how many notifications can appear at once for each application. Each application can display three notifications at a time by default.

Moreover, the Quick Actions at the bottom of the Action Center are finally customizable. Head to Settings > System > Notifications & actions and you'll be able to customize exactly which quick action buttons appear here. The Wi-Fi quick action will now take you to a list of available networks rather than toggling your Wi-Fi on or off, something Microsoft says confused a lot of people.

### **Apps Can Now Take Over When You Visit a Website**

Windows 10 now allows universal apps to be associated with websites. For example, if you navigate to a TripAdvisor web page in Microsoft Edge, Windows 10 could instead open the TripAdvisor app displaying that page.

This feature isn't completely functional yet, as universal apps have to be updated for it. However, you'll find a settings page for controlling which apps are associated with websites at Settings > System > Apps for Websites.

### **The Xbox One Becomes More Windows-Like**

Microsoft is also making a big push for a unified app store across platforms. That means developers can easily make their Windows Store apps work on the Xbox. The Xbox is also getting Cortana, which comes with some new gaming-related features, like game recommendations and tips. The Xbox will support background music, multiple GPUs, and the ability to turn off Vsync as well.

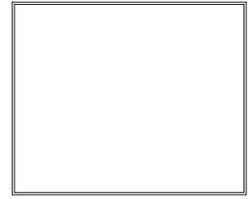
### **Emojis Get an Overhaul**

Microsoft is updating the entire set of emojis included in Windows 10. As Microsoft puts it: "We are updating the entire set of font-based emoji in Windows 10 that aligns with the Microsoft Design Language with a distinct visual style as well as the Unicode standard. These new emoji are designed to be detailed, expressive, and playful. Their larger size takes full advantage of every pixel and the two-pixel outline allows for emoji to appear on any color background without loss of fidelity." You can also

*Continued on page 11*



**P\*PCompAS Newsletter**  
**Greg Lenihan, Editor**  
**4905 Ramblewood Drive**  
**Colorado Springs, CO 80920**  
**e-mail: [glenihan@comcast.net](mailto:glenihan@comcast.net)**



**Coming Events:**

**Next Membership Meeting: 2 July beginning at 9 am (see directions below)**

**Next Breakfast Meeting: 16 July @ 8 am, Country Buffet, 801 N. Academy Blvd.**

**Newsletter Deadline: 23 July.**

**Check out our Web page at: <http://ppcompas.apcug.org>**

