Sun City Summerlin
Computer Club

Windows 10
An Early Look

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Windows 10 Versions & Pricing

- **Successor to Windows 7 SP1 and Windows 8.1 Update**
  - **Based on Windows 8.1**
  - **Features return of the Start menu (but it's different).**
  - **Desktop and laptop users will see the Desktop view.**

- **Retail PC Versions and Street Prices:**   **OEM**
  - **Windows 10 Home**   **~$100**
  - **Windows 10 Professional**   **~$190**

- **Upgrade Price –** *FREE*
  - *To owners of Windows 7, 8 or 8.1.*
  - *Also to participants in the "Windows 10 Insider" Program.*
  - *An "in-place" upgrade is available via Windows Update only to systems running Windows 7 SP1 or Windows 8.1 Update.*
  - *Others can do a "clean install" upgrade using a downloaded ISO image (burned to a DVD or bootable flash drive).*

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Hardware Requirements

- **A PC that runs Windows 7 SP1 or Windows 8 / 8.1 will be able to run Windows 10**

- **Tom's *Recommended* Configuration:**
  - **2 GHz or faster dual (or more) core CPU, 2 GB of RAM or more.**
  - **DirectX 9 Graphics Card with WDDM driver, Pixel Shader 2, 32 bits / pixel (for full video effects)**
  - **40 GB free hard disk space on a 80GB drive or more.**

- **There are few application compatibility issues**
  - **Most Windows 7 & 8 – compatible applications should run fine on the Windows 10 Desktop.**

- **There may be some device compatibility issues**
  - **Most Windows 7 & 8 – compatible devices (printers, scanners, web-cams, …) should run on Windows 10.**

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Hardware - 32-bit or 64-bit

- **32-bit Windows 10 will run on ANY CPU & RAM memory size**
  - Maximum *usable* RAM memory about 3.3 GB
  - Good choice for systems with up to 4 billion bytes of RAM
  - 32-bit CPU access and processes data in 32-bit wide chunks.
  - Very good backward compatibility to 32-bit Win 7 drivers.
- **64-bit Windows 10 requires a 64-bit capable CPU**
  - AMD Athlon 64, Athlon II, Phenom series, "A" series, "E" series.
  - Intel Core 2 series, Core I3, I5 or I7 series. *VT-x or AMD-V needed.*
  - 64-bit CPUs access and process data in 64-bit wide chunks.
  - Can be faster on compute intensive applications.
  - 64-bit versions of programs often larger.
  - Can access up to 256 GB of RAM.
  - Require new 64-bit "signed" drivers (may not exist for old devices).
  - Runs almost all 32-bit programs with no problems.
- **Can't do an "in-place" upgrade from 32-bit to 64-bit**

To Upgrade or Not?

- **Windows 10 will ship pre-installed on most new PCs.**
  - **Look for it on retail PCs in early August.**
  - **Expect Windows 8 / 8.1 to disappear very quickly from retail stores.**
  - **$350 to $600 buys a very nice desktop or laptop PC.**
  - **For a desktop, recommend you have a 20" or 24" wide-screen flat panel.**
  - **Most new laptops have 1600 x 900 or higher screens, many with touch.**

- **Windows 7 & 8 are still mainstream and will be supported until about 2020. For most SCSCC members, there's no compelling reason to upgrade an existing Windows 7 PC.**

- **If you're already on Windows 8.1 Update, Windows 10 is much less different and should be an easy upgrade. Still, it's probably best to wait a few weeks or more to let early problems get resolved.**

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How To Get Windows 10

- **Easiest – Buy a *new* PC on or after July 29th, 2015**
  - **Windows 10 comes pre-installed.**
  - **Product activation handled by the hardware vendor.**
  - **Windows 10 tested and verified by the vendor.**
  - **Still need to install your other applications and tools.**

- **If you're running Windows 7 SP1 or Windows 8.1 Update**
  - **Reserve your copy via the "Get Windows 10" icon in the tray.**
  - **Then just wait to be notified when the upgrade is available to install.**
  - **Best to run the Windows 10 Compatibility Checker before trying to install the upgrade. Checks your hardware and apps for compatibility.**

- **Install Insider Preview "Final" Build 10240 (from ISO)**
  - **A bit risky, but recent pre-releases are getting to near "finished" quality.**
  - **Do a clean (or upgrade) install on the system you want to upgrade.**

- **Persuade (or pay) someone to do Windows 10 Upgrade on your PC**

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What's New and Different

- **Videos: https://insider.windows.com/Home/Index**
- **Windows 10 Start Menu with "Live Tiles"**
  - **Each Tile can show "live" data while running.**
- **Start page is gone; Charms are gone**
- **Built-in "Windows 10" (aka "Modern") Apps Improved**
- **"Windows 10" Apps run in regular desktop windows**
- **New Microsoft "Edge" (aka Project Spartan) web browser**
- **Retains a Desktop version of Internet Explorer 11**
- **Microsoft has updated the Windows Store**
- **Search bar on the task bar**
- **Support for multiple concurrent Desktops**
- **Cortana Personal Digital Assistant**
- **Most Settings (Control Panel) now re-done as "Modern" apps**
- **Windows Update *unconditionally* installs patches *whenever available* (Home and Pro versions) – No more Patch Tuesdays**

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Important Keyboard Shortcuts

- **Windows key by itself - Opens the Start Menu**
- **Alt + Tab - Cycles between apps on current desktop**
- **Win + Tab displays and holds the new Task View**
- **PgDn / PgUp – Moves between desktop icons**
- **Winkey + left or right arrow – Snaps a window to the left or right**
- **Winkey + up or down arrow – Snaps a window to the top or bottom**
- **Winkey + I – Opens the Settings window**
- **Winkey + K – Opens the Devices window**
- **Winkey + X – Opens the Desktop Quick Menu**
- **Winkey + E – Opens the File Explorer**
- **Winkey + Ctrl + D – Opens a new virtual desktop**
- **Winkey + Ctrl + F4 – Closes the current virtual desktop**
- **Winkey + Ctrl + left or right arrow – switch between virtual desktops**
- **http://www.howtogeek.com/198122/32-new-keyboard-shortcuts-in-the-windows-10-technical-preview/**

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Key "Windows 10" Apps

- **Mail App**
  - **Supports IMAP4, Hotmail, Outlook.com, Gmail *and* POP3**
  - **Uses "Modern" interface – a bit strange – compare to Outlook.com**
  - **May prefer to use a "classic" desktop e- mail program; Windows Live Mail 2012 *may* install and run (demo)**
  - **MS Outlook 2010 or 2013 will install and run**
- **Calendar App**
  - **Insists you to sign in to your "Microsoft Account"**
- **Photo Viewer App**
  - **Insists you to sign in to your "Microsoft Account"**
  - **Accesses web photo accounts (Facebook, …)**
  - **No editing features – does slide shows**
- **Music App**
  - **Music Player**
  - **Interface to the Xbox music store**

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<u>Key Desktop Programs</u>

- **File Explorer ("Computer")**
  - *Has the Ribbon interface*
  - *Otherwise not much different than Windows 7*
- **Windows Quick Menu**
  - *Right-click on the Start button (or press Winkey+X) to pop up a list of system management functions.*
- **Pinning / Unpinning From the Start menu tiles**
  - *Locate the program on the start menu.*
  - *Right click the program and then choose Pin to Start*
  - *Or you can just drag to the Start tiles area*
- **Creating Desktop shortcuts for frequently used programs**
  - *Locate the program on the start menu.*
  - *Right click, select "Open file location".*
  - *Right click the file, then hover over Send to and then click Desktop*

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Windows 10 Compatibility Issues

- **Run the Windows 10 Compatibility Checker (demo)**
- **Hardware / Drivers**
  - **BIOS (might be out of date on old PCs)**
  - **Many Win 7 / 8 drivers will run on Win 10, but watch 32-bit vs 64-bit**
  - **CD / DVD Burners – some may need firmware updates**
  - **May be no Win 10 hardware drivers from MS or vendors for older devices**
    - **Video and Sound cards**
    - **SCSI Disk Controllers and Wireless LAN cards**
    - **Printers, faxes and Scanners**
- **System Utility / Tool Software**
  - **Anti-virus and backup programs may need upgrades**
  - **Only Acronis True Image 2016 is compatible with Windows 10**
  - **FAX, Scan and Print Tools**
- **Application Software – Especially OLD Programs**
  - **Games**
  - **Graphics applications**
  - **Video processing**
  - **Music Processing**

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Moving Data, Settings and Programs

- **Automatic if you do an in-place upgrade from Win 7 SP1 or Win 8.1 update**

- **Windows 10 has no built in "Easy Transfer Tool"**
  - You can manually transfer data files from an old PC to a Windows 10 PC
  - Transfer via an Ethernet LAN or an external USB drive
  - You still need to reinstall <u>all</u> your applications.

- **Consider Ease US Todo PCTrans Free 8.0**
  - http://www.easeus.com/free-pc-transfer-software/
  - Claims to be a more complete solution.
  - Moves programs as well as settings and data.
  - Review indicates process is complex
  - Also a paid "Pro" version for $49.95.

- **Consider Zinstall Easy Transfer Tool**
  - http://www.zinstall.com/

Configuring and Customizing Win 10

- **Winkey+I brings up the Settings panel to access many settings tools.**
  - *Includes Control Panel, Network and "Change PC Settings".*

- **Winkey+X brings up the Desktop Quick Menu, which links to many system management functions.**

- **Right click on the Desktop background and choose "Personalize" or "Screen Resolution".**

- **Windows 10 "God Mode" Folder**
  - *Comprehensive categorized panel of links to change Win 8 settings*
  - *On Desktop, right click and choose New > Folder*
  - *Name it "God Mode.{ED7BA470-8E54-465E-825C-99712043E01C}"*
  - *Demo …*

Microsoft App Store

- **An "*App*" is a computer program written to conform to the "Metro / Modern / Windows8 / Universal" look and feel, using a specific set of programming interfaces.**
  - **Most Apps are written in "interpreted languages" – HTML5 + JavaScript**

- **A "Desktop *Program*" is a computer program written to conform to the classic Windows look and feel, using a programming interface called "Win 32".**
  - **Programs mainly written in C, C++, Visual Basic, Visual C#, Java or Delphi**

- **To go to the App store, on the Start Page, click the tile for Store**
  - **This takes you to the store on the MS website**
  - **Store shows broad categories like Games, Lifestyle, Tools, Security**
  - **Pan across the display and click on a category to see specific apps**
  - **You can filter for Free, Paid or both**
  - **You can sort by various categories**

- **Demo … Go to the store, locate and install an App**
  - **"Speed Test Pro" does a speed benchmark of your PC.**

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Windows 10 – Web Links

- **Microsoft's Windows Site: http://windows.com**

- **Microsoft Win 10 Presentation: https://www.youtube.com/watch?v=VTkvN51OPfI**

- **ZD-Net: http://www.zdnet.com**

- **Paul Thurott's Windows Supersite: http://www.winsupersite.com/**

- **http://betanews.com/2015/07/11/getting-started-with-windows-10-download-the-essential-guide/**

- **Free Book: https://www.microsoft.com/en-us/download/details.aspx?id=47716**

- **Start Menu Replacements for Windows 10:**
  - **Not clear that these are still needed or valuable, but may be for you if you want a classic Windows 7 or XP-style Start menu (no tiles).**
  - **Start 10: https://www.stardock.com/products/start10**
  - **Classic Shell 4.2.2 (www.classicshell.net) supports Windows 10 (may have to rename the setup file).**

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Questions
And
Answers

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