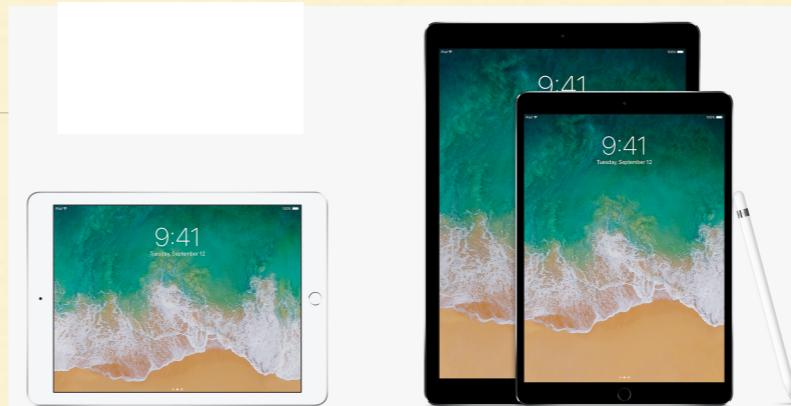




THE iOS WORLD UPDATE, NOVEMBER 2017

Prescott Mac Users Group Meeting



Who has an iPhone

Who has an iPad

Who has upgraded to Version 11?

Why?????????

TODAY'S TALK

- What is the iOS world
- Why should you care about upgrading?
- What is the hardware (new & old) and the paths for upgrading
- What does the new release (iOS 11) bring to you?

SOFTWARE/HARDWARE MATCH

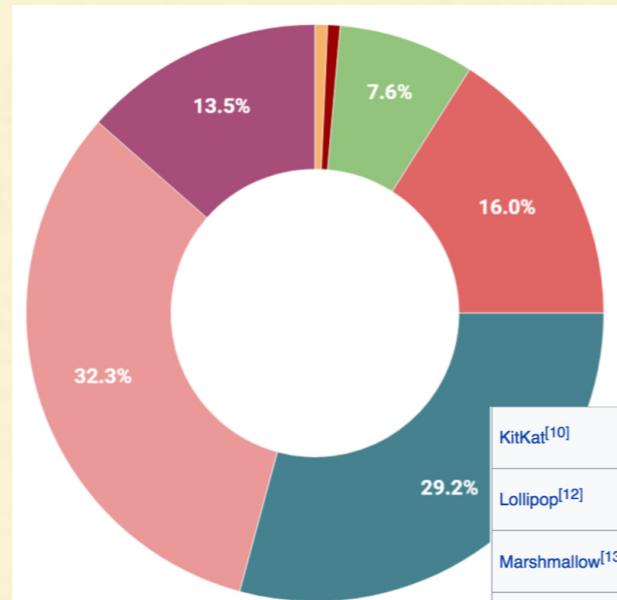
- New version of iOS (current is iOS 11) released yearly
- Released in conjunction with new hardware
- Supports iPhone 8 and 8 Plus released end of September
- Also supports iPhone X released November 3
- All versions are FREEEEEE!!

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Apple has found that releasing a new version yearly does a couple main things: Allows new software capabilities, supports new hardware in the devices, fixes bugs (instead of patching them)

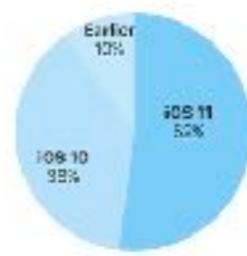
It is FREE because Apple wants as many of their users on the last release as possible

iOS vs Android



- Gingerbread
- Ice Cream Sandwich
- Jelly Bean
- Kit Kat
- Lollipop
- Marshmallow
- Nougat

52% of devices are using iOS 11.



As of end of November 6, 2017.

KitKat ^[10]	4.4 – 4.4.4	October 31, 2013
Lollipop ^[12]	5.0 – 5.1.1	November 12, 2014
Marshmallow ^[13]	6.0 – 6.0.1	October 5, 2015
Nougat ^[14]	7.0 – 7.1.2	August 22, 2016

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Android measurements done August 2017, just before Oreo was released.

Nougat was released before iOS 10, yet has only 1% of users in its first year!

iOS 10 and 11 account for 90% of users!!

Android users have to put up with slow releases for some of the supported models

They put up with the viruses and hacks

SOFTWARE/HARDWARE MATCH

- iOS 11.1 is the current release (November 2017)
- Supported on following all ready released devices:

iPhone	iPad	iPod touch
■ iPhone 7 Plus	■ 12.9-inch iPad Pro (first-generation)	■ iPod touch (6th generation)
■ iPhone 7	■ 12.9-inch iPad Pro (second-generation)	
■ iPhone 6s	■ 9.7-inch iPad Pro	
■ iPhone 6s Plus	■ 10.5-inch iPad Pro	
■ iPhone 6	■ iPad (fifth-generation)	
■ iPhone 6 Plus	■ iPad Air 2	
■ iPhone SE	■ iPad Air	
■ iPhone 5s	■ iPad mini 4	
	■ iPad mini 3	
	■ iPad mini 2	

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iOS 11 ONLY supports 64bit chips based devices: iPhone 5s uses A7 (first Apple 64bit chip), iPhone 6 uses A8, SE and 6S the A9, 7 the A10 Fusion, 8 the A11 Bionic
iPod Touch uses A8

iPad Mini uses A8, iPad uses A9, iPad Pro uses A10X

iOS 11 supports all the 64bit chips: A7 2013, A8 2014, A9 2015, A10 2016, A11 2017

SOFTWARE RELEASES

- Why does Apple keep upgrading the software
 - Support new hardware like iPhone 8, 8 Plus and X
 - Fix the patches in the older software
- Why do I have to upgrade
 - Get new features
 - Prevent hacks



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New hardware required to “keep up with the Jones’s” - Amazon, Samsung, Nokia, etc

Think of a patch (.x) as being a bandaid. In the new release, they rewrite the software that caused the issue in the first place. So, a patch is treating the symptom, where a new release eliminates the cause.

Hack vs Crack - Most hackers are not interested in you, but instead in where they can go with the information on your device... (access a large organization to plant a bug, virus, ransom, infiltrate the CIO or sysadmin, etc)

There is the concept of the “zero day exploit” - a bug known to hackers as soon as the software is released. They are now paying up to a million Dollars for knowledge of these bugs. The sooner you upgrade the sooner you are protected, as well as those you digitally communicate with.

HARDWARE UPGRADE PATH

- But my iPhone 4/4S/5 works just fine...
- Upgrade path dependent on how you use your devices
- Software patches are relatively easy to crack
- The Computer/Internet world keeps upgrading to newer technology and standards and drops older technology
- Many new software developers only use today's standards

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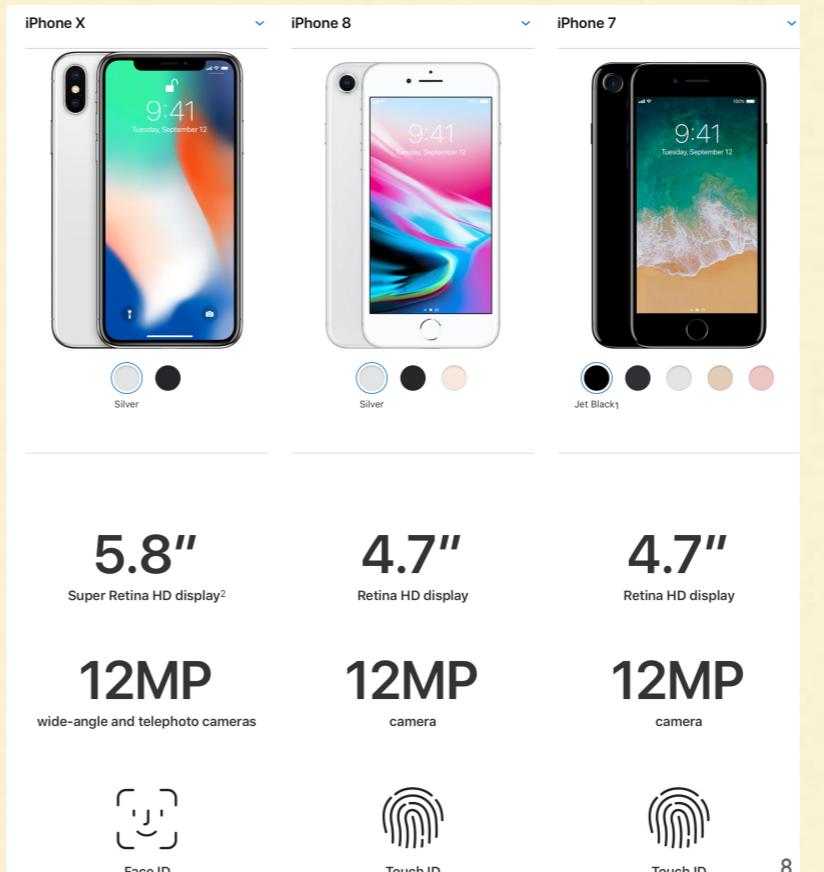
If your old phone/iPod/iPad works just fine, and your apps are still supported, by all means keep using them, while realizing you may be more prone to bugs and viruses. Your apps will eventually not be updated and you will not get new features. New apps may not work at all...

I recommend ALWAYS upgrading to newest software about 1 to 2 weeks after its release, and when your hardware is no longer supported by the latest software release, to upgrade your hardware. (that was 5 years for the iPhone 5!!)

Do you use your iPhone as a phone, or a pocket computer?

External devices for backup a good example of how technology changes, and old hardware is dropped: How many of you used a floppy disk, zip drive, jazz drive, external disk (size & speed), SSD as well as the way to connect to it (SCSI, USB 1/2/3, Firewire 400/800, Thunderbolt 1/2)

Newest Hardware



HARDWARE UPGRADE PATH

- iPhone 8 and 8 Plus
 - New and faster chip (A11 Bionic)
- iPhone X
 - Home button gone
 - Larger screen on same size phone



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iPhone 8 is the regular “next release”, same size as iPhone 7, but with next generation chip. Supports wireless charging (like your electric toothbrush!). All gestures are same as on iPhone 7.

iPhone X is a jump to new technology: has a screen larger than the 8 Plus and more pixels, but the phone is close to the size of the 8, face recognition, OLED screen (better color, contrast and blacks), all glass front and back to enhance reception (but bad if you drop it!!), NO HOME BUTTON so gestures change (good for your brain to learn new things)

HARDWARE UPGRADE PATH

- iPhone SE is the cheapest (but the shortest life span)
- iPhone X is the most expensive
- Buying the newest (8, 8 Plus, X) delays upgrading the longest
- In between is a broad range of costs/capabilities
- Need to know with what other Apple products it interfaces to

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Life span is the length of time that Apple actively releases patches for that device. The iPhone 5 was supported for 5 years.

The iPhone 6 or later is required for iOS 11 and Apple Watch Series 3 is supported on iPhone 6 or later.

Following iPhones can be purchased from Apple: SE (same chip as 6S), 6S, 7, 8, X

Could show Apple products via Safari here.

IPAD HARDWARE UPGRADE PATH

- iPad Mini (A8)
- iPad (A9)
- iPad Pro 10.5" (A10X)
- iPad Pro 12.9" (A10X)

12.9-inch iPad Pro	10.5-inch iPad Pro	iPad	iPad mini 4
Capacity and Price ¹			
Wi-Fi	Wi-Fi	Wi-Fi	Wi-Fi
64GB \$799	64GB \$649	32GB \$329	128GB \$399
256GB \$949	256GB \$799	128GB \$429	
512GB \$1149	512GB \$999		
Wi-Fi + Cellular	Wi-Fi + Cellular	Wi-Fi + Cellular	Wi-Fi + Cellular
64GB \$929	64GB \$779	32GB \$459	128GB \$529
256GB \$1079	256GB \$929	128GB \$559	
512GB \$1279	512GB \$1129		

iOS 11

- iOS 11 is the latest in a long string of yearly releases
- Adds software to take advantage of new hardware in iPhone 8 and X
- Adds new features as requested by the community and by the Apple programmers
- Tweaks many Apps to improve how they work (together)
- Released in conjunction with Watch 4.0 and MacOS 10.13

iOS 11 NEW FEATURES

- General improvements
- iPad only
- Lock Screen
- Control Center
- Home Screen
- Files
- Siri
- Notes
- Keyboards
- HomeKit
- App Store
- Camera
- Maps
- Messages
- Photos
- Settings

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These are general categories where most of the changes happened. See Take Control of iOS 11 (1.1) to see full list and how they work.

iOS 11 NEW FEATURES

- No support for 32 bit hardware or apps
- App ratings improved
- Instant Markup of screen shots, files and photos, turn markups into PDF
- Quick start and set up (upgrade) from other iOS 11 device
- Control Center redesigned/simplified/expanded/customizable



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Apps are restricted to asking you to rate them to just 3 times a year, or turn off entirely Settings/iTunes & App Stores

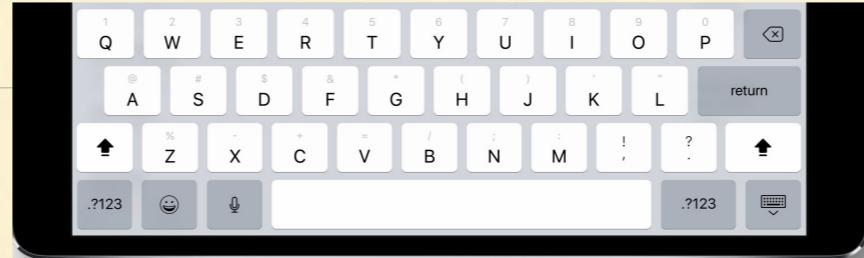
Instant Markup - show Screen Capture, then Markup. Bring up Safari, hit Share icon and Create PDF, show icon, Save PDF to iBooks

Just put the two devices close to each other and the transfer will work over Blue Tooth

Control Center - Settings/Control Center - add or subtract items

Network Box - press & hold to see Airdrop and Personal Hot spot

iOS 11 NEW FEATURES



- New Screen Recording capability
- File system replaces iCloud Drive app
- Siri is SIGNIFICANTLY improved now understands typing
- New Keyboards including one hand typing
- Numbers are swiped down from regular keyboard (iPad)

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Screen Recording (Dot with Circle around it) in Control Center allows you to capture steps to do something and show as a movie.

Files system (folder in the dock) shows all files on the device and in the cloud

Siri now has new voices, does translation, syncs across devices, controls music, etc

Keys on iPad have numbers on them and just drag down to access, other keyboard controls on iPad accessible from touching and holding keyboard key in lower right, one handed keyboards on iPhone (press and hold emoji key),

iOS 11 NEW FEATURES



- Camera App improvements
- New photo and video file formats for space and speed improvements
- iPad gets a bigger and true dock (swipe up to reveal)
- iPad gets improved split screen with click and drag between screens

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Camera now supports Tim-Lapse and Slo-mo besides square, normal and Pano on iPhone 7 and later. When taking a picture, hitting the edit icon in top right you can choose the filter and see the results before you take it!

HDR (High Dynamic Range) takes two pics, merges them to produce an HDR, but also stores a regular one also.

Camera stores files in new formats that are faster and better, reads QR codes. Format converted to JPG automatically when sent somewhere. JPEG is now almost 30 years old, and showing its age.

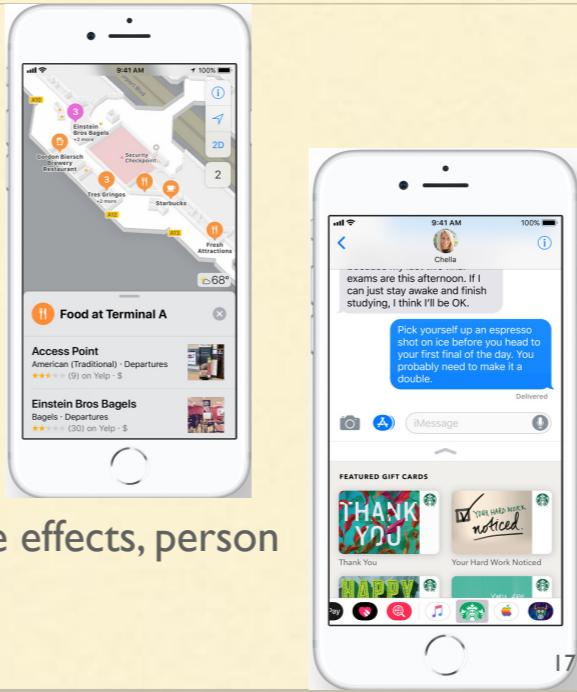
iPad Pro is moving toward Mac capability, when in app, swipe up 1 finger in lower inch to reveal dock (if you swipe further than an inch you will be in App Switcher Multitasking gesture - move 4 fingers toward top to bring up the App Switcher, or 4 fingers left or right to switch apps

2 App Multitasking - either Slide over screen or split screen: reveal the Dock and drag an app from the Dock onto the app you're viewing, Split screen by dragging new app to left or right side,

Change split screen, tab & hold (slide slightly up or down, then left or right to position)

iOS 11 NEW FEATURES

- Maps improvements
 - Indoor maps (airports & malls)
 - Speed limits & lane guidance
- Messages
 - Adds App Drawer, new message effects, person to person Apple Pay and more



Using Maps for directions is much improved. The lane guidance is great, and speed limits are up to date (which cars do NOT update!) but not complete yet.

Using indoor maps is great in large malls and airports. (example: Phoenix Sky Harbor or Scottsdale Fashion Mall)

Bubble & Screen Effects - accessed by holding the Send icon - Bubble Slam, Loud, gentle, invisible

Screen effects: swipe right/left between 9 effects for

Photos, voice messages, etc are able to be sent in messages

Apps drawer is to add music, apps from other developers, emoji's, photos - Access by taping the Apps icon between the message and the camera. Also get a chance to draw a small image. Swipe right to go to the Message App store.

iOS 11 NEW FEATURES

- Notes improved to show tables, scan documents and better editing
- DNDWD!!! Can activate automatically when driving and accessing the phone
- AirPod interface improved
- ALL Apps now have “While Using” location services
- Music App more “social”

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Notes has a document scanner to deskew edges, better formatting, pinning, printing recognition - hit + to start. Can save to current note or to new note
New DND while driving. When you access the phone when driving, it asks whether you are the driver. If you are, DNDWD starts up. DND can be set automatically in Settings/DND/Activate or manually (iPhone only)

Music app allows you to share what you are listening to with your friends. Integrates with Apple Watch display to show what song is playing on the iPhone/iPad.

iOS 11

- That's all folks
- Thank you for your attention
- <https://www.apple.com/ios/ios-11/>
- <https://www.takecontrolbooks.com/ios-11>