

printout

Keystone MacCentral Macintosh Users Group ♦ <http://www.keystonemac.com>



It's summer break time

Meet us at

Bethany Village Retirement Center

Education Room

5225 Wilson Lane, Mechanicsburg, PA 17055

Tuesday, September 15, 2015 6:30 p.m.

Attendance is free and open to all interested persons.

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Keystone MacCentral is a not-for-profit group of Macintosh enthusiasts who generally meet the third Tuesday of every month to exchange information, participate in question-and-answer sessions, view product demonstrations, and obtain resource materials that will help them get the most out of their computer systems. Meetings are free and open to the public. The *Keystone MacCentral printout* is the official newsletter of Keystone MacCentral and an independent publication not affiliated or otherwise associated with or sponsored or sanctioned by any for-profit organization, including Apple Inc. Copyright © 2015, Keystone MacCentral, 310 Somerset Drive, Shiresmanstown, PA 17011.

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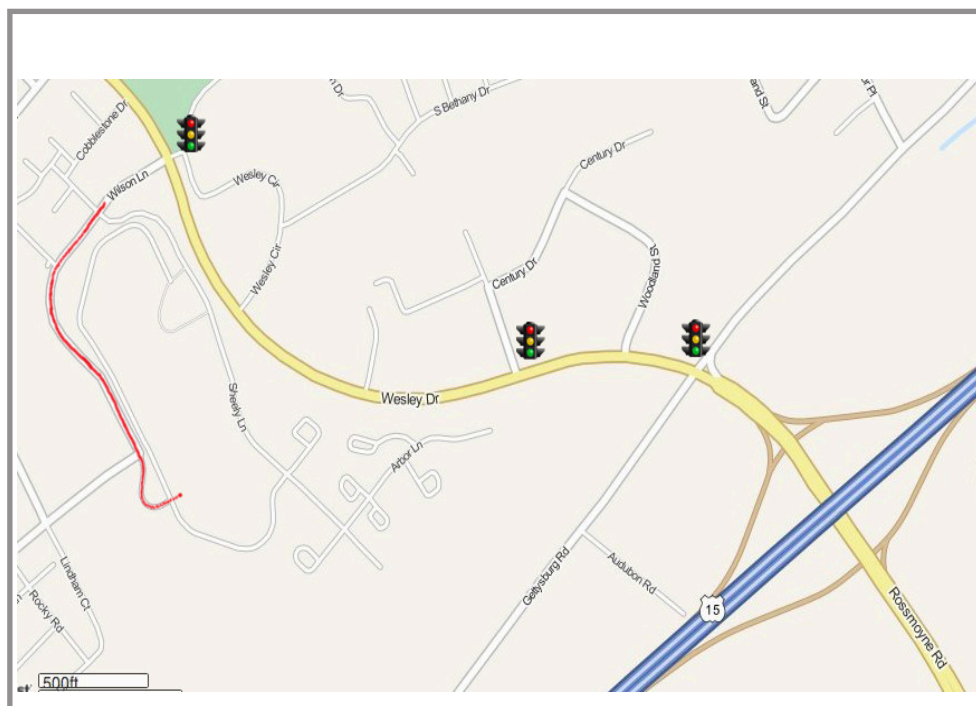
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Highlights of May Meeting



The subject of KeyMac's May meeting was the new JixiPix program, Artista Impresso Pro. Actually, there are two versions of this program, Artista Impresso for beginners and photo hobbyists and Artista Impresso Pro for those who have a more serious interest in using the compositions of their photographs creatively to express their emotional interplay with the subject. Beyond these two versions of the program for desktop or laptop computer use, there is also a version for handheld devices such as the iPhone, iPod, and iPad. But the KeyMac program centered on the higher end Macintosh version.

Artista Impresso, the entry level desktop program, transforms photos into multi-textured, stroke-filled Impressionist art using either of two impressionist painting styles:

1. **ALLA PRIMA** (Italian, meaning 'wet-on-wet' or 'all-at-once'), which is a painting technique used mostly in oil painting, in which layers of wet paint are applied to previous layers of wet paint. When actually using paints, this technique requires fast work, because the art has to be finished before the first layers have dried.
2. **EN PLEIN AIR** (a French expression which means 'in the open air' or outdoors).

Artista Impresso applies either of these styles in an easy to use workflow with a choice of many preset styles, which are controlled by a number of adjustable parameters. The one-of-a-kind ellipse detail tool can then be applied to render small brush strokes on a face or other center of attention in a picture. The detail ellipse can be sized, positioned, and changed proportionally to include a larger or smaller focal point, as in a landscape. For convenience an ellipse that you can move and resize — or delete if you prefer — is placed in every photo. Impresso also supports multiple ellipses for placement on eyes, hands or other objects. With this workflow you can achieve thick impressionism strokes around the ellipse areas with smaller ones on the inside. This version also provides customizable Artists Palettes that let you modify the colors used in your impressionist rendering to correspond with the palettes of known Impressionist painters. (This Artista Impresso workflow is also used with the app for mobile devices.)

Artista Impresso Pro has the same two impressionist styles, ALLA PRIMA and EN PLEIN AIR, and adds to them a third effect, TACHE (French for 'spot'), which covers the picture surface with short but adjustable 'brush strokes' that add texture to the art. However, where Impresso allows a choice between the two styles it uses, in the PRO workflow all three of these impressionist styles can be added to the same picture on separate Layers, as in Photoshop and other pro-level programs. With Layers, users can blend each of the impressionist styles to create an infinite number of unique compositions. And unlike the beginner's version of Impresso, above, where the ellipse detail tool is the only tool available to render smaller brushstrokes to a face or flower on a single layer, the PRO version allows multiple layers, brushes, and masks that add, erase, and invert parts of a layer's effect as that layer affects the whole composition. Using these tools you can have duplicate layers that affect different parts of a picture and adjust the stroke size differently in the layer copy, using the Brush Tool to paint out or paint back in the finer detail you want. A second approach is to duplicate the layer, adjust brush size, invert the brush mask, and then brush in the detail—both ways work great. The Pro version also has the customizable Artists Palettes and includes a PLUG-IN capability for Photoshop, Photoshop Elements, or Lightroom, allowing the Artista Impresso features to be used either in stand alone mode or within one or another of the Adobe programs.

Another interesting feature of these programs is the ability to apply a two dimensional Canvas texture to your picture that is adjustable to give more or less of a fabric grain to your picture, to simulate the thickness of the paint being applied.

One more point that should be kept in consideration when using either of these programs is the size of the original picture file that is being used. Think about it, if you start with an image you cribbed from the web that is 500 pixels wide, that can be six brush strokes with some Photoshop brushes. To get the effects you want from Artista Impresso, I would recommend a picture 2,000 to 3,000 pixels wide or high. So what do you do if that great picture you just know would make an impressionist masterpiece is one you took with your iPhone? Open it in any program like Preview or Photoshop, open a copy, and increase the picture size to 2 to 3 thousand pixels per direction. Save the copy that way and open it in Artista Impresso Pro. Even if the resized original looked somewhat pixelated, the program will apply fine resolution artistic effects in the digital painting that is created.

Instructional Material JixiPix provides a page on their web site which details the use of the various buttons and sliders that control the program's features and several videos

on their YouTube channel. Rather than having to open a browser window in addition to the the graphics program – either Artista Impresso (Pro) or the Adobe product with the plug-in – I copied the JixiPix document as a high resolution .JPG image from their web page and have made it available to KeyMac members on the KeyMac web site at: <http://www.keystonemac.com/images/Artista_Manual.jpg>. This .JPG is much longer than fits on one screen, but it can be opened with the Macintosh's Preview app. Then using 'Cmd-+' ('Cmd-=' will do) seven or eight times, followed by dragging the right edge of the Preview window to the right, the document will be large enough to view, read, and use.

And the JixiPix videos I watched are:

[Artista Impresso Pro - How to Blend Paint Styles](#)

[Artista Impresso Pro - Add Detail to Portraits](#)

[Artista Impresso Pro - How To Use En Plein Air](#)

[Artista Impresso Pro - How To Use Alla Prima](#)

[How to Use The JixiPix Photoshop Plugins UI](#)

Finally, JixiPix is offering us a 20% club discount, not just on Artista Impresso or Artista Impresso Pro, but on any or all of their products. To take advantage of this offer, go to the [JixiPix Web Site](#), review and select the product or products that interest you, add them to your cart, click the "Mac" button, and on the next page at the bottom right of the order enter KMC2015 Then click the "Update Coupon" button. When done, complete your order.

The more time I spend with Artista Impresso Pro, the more impressed I am with its ability to create artistic effects; and I must add, the effects it adds have made me much more aware of what to look for and how to compose my photographs. 📷

by Josh Centers

Automatic for the People

If you've ever had a job that required a lot of driving, you've become painfully aware of the true cost of car ownership. There's the price of gas, of course, but every mile you travel also puts wear on the engine, tires, and transmission. Even stopping the car costs you money, as it wears down the brake pads and rotors.

Beyond all of that, there are other annoyances with driving, such as losing your car in crowded parking lots, dealing with the check engine light, teen drivers, and most unfortunately, automobile accidents.

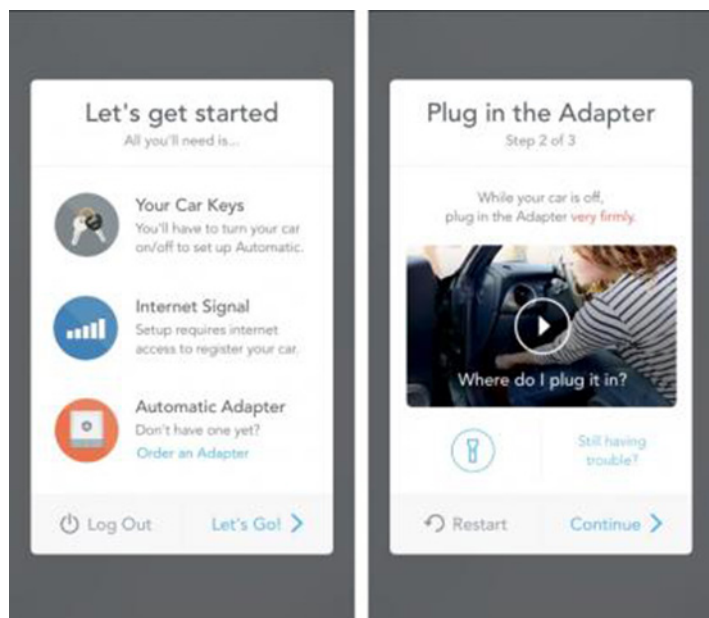
Fortunately, there is a gadget that can alleviate all of these woes. **Automatic** (a TidBITS sponsor) sells a Bluetooth dongle (called the [Link](#)) that plugs into your car, linking it to a corresponding app on your iPhone. In turn, the app helps track your driving habits, alerting you of potential pitfalls, and provides a host of other neat features. The Link usually costs \$99.95, but for a limited time, TidBITS readers can pick it up for just \$79.96.

Setting Up Automatic – The first thing that struck me about Automatic was the packaging. It arrived in a plastic hexagonal tube, with the Automatic Link at the top. To retrieve it, I had to strip the plastic wrapper, pull the silicone cap from the bottom, pull out the accompanying documentation, then reach into the tube, push a plastic tab to release the adapter, and finally pull a loop to release the adapter. Frankly, it was a pain to get out.



However, there's a method to this package madness: it doubles as a lidded travel cup! The thick plastic is BPA-free and is perfect for taking cold drinks on the road. Not even Apple's otherwise stellar packaging has such capabilities. And unlike my Apple Watch, Automatic came with a sticker.

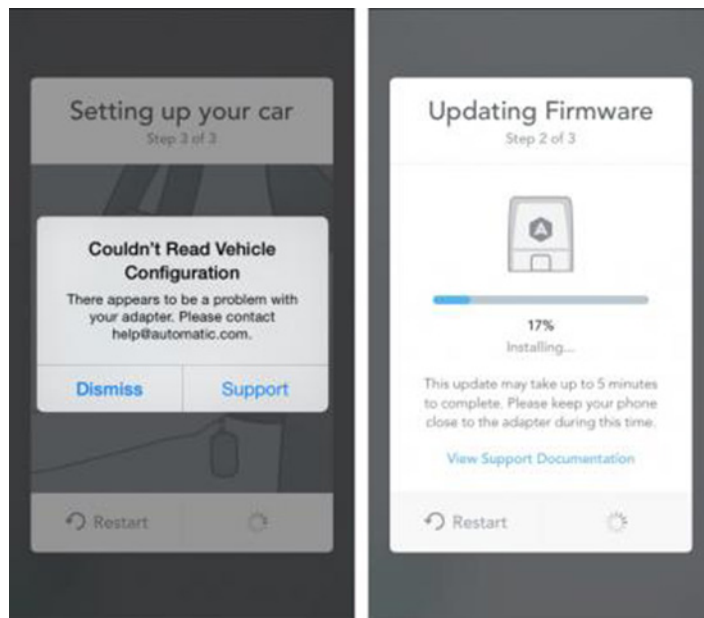
With the Automatic Link freed from its plastic prison, you next need to download and launch the Automatic iPhone app. It will guide you through the setup process, including setting up an account at automatic.com.



To install the Automatic Link, you need to plug it into a gasoline-powered car with an OBD-II port, which is common to cars from model year 1996 and later. You can usually find this port between the steering wheel and pedals. When prompted by the app, plug the Link firmly into this port — it's reminiscent of inserting a cartridge into an old video game console. Once installed, the Link is hard to notice, so don't worry about it attracting opportunistic thieves.



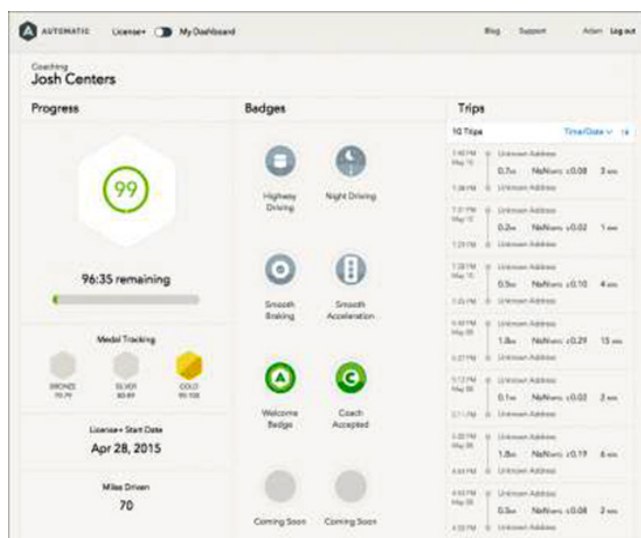
Unfortunately, Automatic isn't guaranteed to work with every car with an OBD-II port. I first tried it with my 1996 Ford Ranger, but the app displayed an error message saying there was a problem with the adapter. However, it worked like a charm with my 2008 Toyota Corolla, though I had to wait a few minutes for a firmware update.



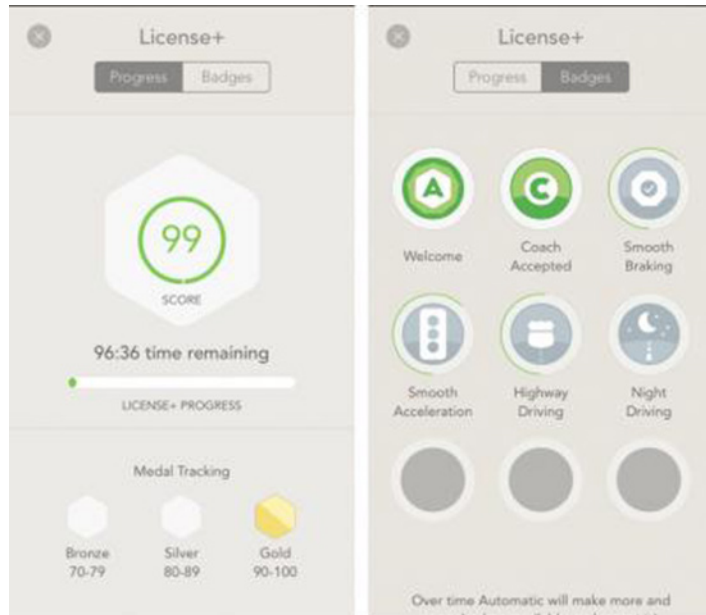
At the end of the setup process, you're asked if you'd like to enable License+, which is a training program for teen drivers.

Taming the Teen Driver — License+ is an Automatic feature that offers guidance to new drivers. It acts as a bridge between merely being licensed to drive and becoming an independent driver.

The License+ program lasts for 100 hours of driving time, though it can be disabled at any time. To sign up, you have to select a driving coach, who you can invite from your contacts. The coach will be able to track your progress and your trips. You can also check in with your coach when you reach your destination, and the Automatic app can be configured to prompt you to do this when you stop in Settings > License+.



License+ takes a gamified approach to driving. As the coached driver, you earn badges for certain achievements, such as avoiding hard braking, driving on the highway, and driving at night. As you progress, more badges are unlocked.



A number of automakers, [such as Volkswagen](#), are launching programs to track teen drivers, but what I like about License+ is that it's a transitional program with well-defined goals. It's a smart balance between having free-range parenting and being a helicopter parent.

Using Automatic — Once Automatic is set up, using it is... automatic. The Link activates when you start your car, and there's no need to launch the app while you're driving.

The only interaction you have with Automatic while driving is a series of beeps from the Link. The Link beeps when it's turned on, and it beeps at you when you do something wrong, like braking too hard, stomping on the gas, or going over 70 miles per hour. As a Star Wars fan, I like to think of it as having R2-D2 as my copilot.

The beeps help make you aware of costly maneuvers. Fast accelerations and speeding burn gas unnecessarily. Likewise, hard braking wears down your pads and rotors, and it could potentially cause a rear-end collision if the driver behind you can't respond in time. You can adjust the beeps — or disable them entirely — in the app under Settings > Audio Feedback.

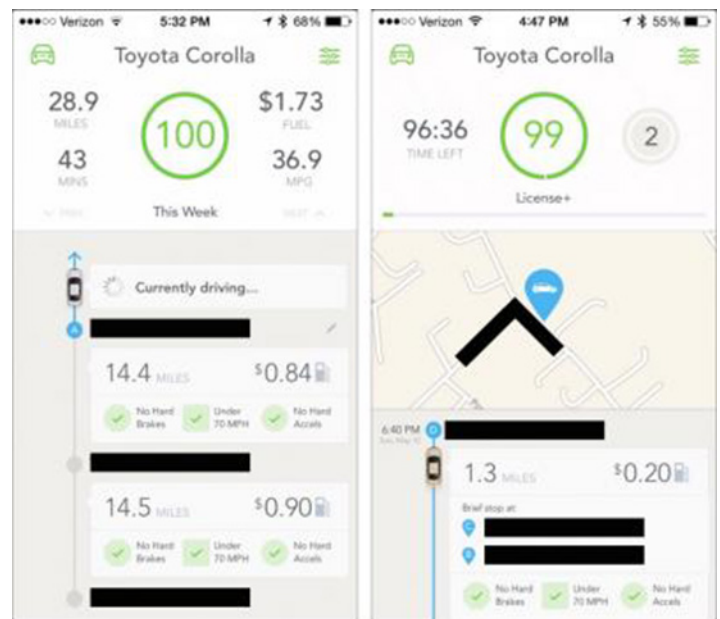
Another useful feature of Automatic, if your car supports it, is that it will alert you if you're getting low on gas. Unfortunately, my Corolla doesn't support this option.

The app's home screen is packed with useful information. Unless you have License+ enabled, the top of the screen displays the number of miles you've driven in the current week, the total time you've been driving, how much you've spent on fuel, and how many miles to the gallon you're getting. It also displays your weekly driving score,

on a scale from 0 to 100, that's based on your avoidance of fast accelerations, hard braking, and speeding.

You can also scroll back through your weekly history to see your stats for any given week. This is especially handy if you're trying work out your gas budget.

Unfortunately, if License+ is enabled, you don't see all of this information. Instead, you see only the remaining time left, your driver score, and how many badges you've earned.



On the home screen, below your stats, is a mini-map showing your car's last known location. I often have trouble remembering where the devil I parked my car, especially at large stores and shopping malls. There are lots of apps that can mark your parking spot, but Automatic does it... automatically, because how often do you anticipate that you'll forget where your car is? Tap the mini-map to see a full map, get walking directions with Apple Maps or Google Maps, or even share your car's location with a friend. If you have an Apple Watch, the Automatic app can display your car's location on your wrist.

Below the map is a list of recent trips, detailing individual stops, how much each trip cost in gas, and whether you performed any verboten actions. Tap a trip to see its route map, to share the route, or to mark it as a business trip.

If you're a business traveler, tagging business trips may sound exciting, but unfortunately, [the feature isn't quite ready](#) yet, as there is no way to export just trips marked as business.

Of course, the OBD-II port was originally intended for auto diagnostics, and Automatic does that, too. From the home screen, tap the car icon in the upper left to see and clear error codes. That might justify the cost of Automatic itself, by saving you an unnecessary trip to a mechanic or auto parts store.

Another major feature of Automatic is Crash Alert. When Automatic detects a collision, it can automatically contact Automatic's call center and send a message to people you've designated as emergency contacts. You can designate up to three in Settings > Crash Alert. Thankfully, I haven't had a chance to test this feature.

While the iPhone app offers plenty of information, the Web site's dashboard provides even more. You can view a map of every trip you've ever taken with Automatic, see your total average gas mileage, see a daily graph of gas mileage, export trips to CSV format for further analysis in a spreadsheet, and more.

Finally, if you're an automation fanatic, [Automatic can tie into IFTTT](#) to perform actions based on your car's location (Jeff Porten explained this tool in "[IFTTT Automates the Internet Now, but What Comes Next?](#)," 20 December 2013). For example, IFTTT could message your spouse to say that you're leaving work, or, if you had a [SmartThings-compatible lock](#), it could automatically unlock your front door when you arrive home. Automatic can also [tie into the Ford Sync](#) system in select Ford vehicles, activating predesignated IFTTT actions, hands-free. (I was unable to test this, as the most advanced technology in my Ford Ranger is a CD player I installed myself.)

Automatic Privacy — To be honest, seeing my exported Automatic data was a bit unnerving. It features a log of which car I was driving, my starting address, what time I left, where I drove to, and even the GPS coordinates of my origin and destination.

Thankfully, Automatic has one of the [better privacy policies](#) I've read. All traffic, from the Link to their servers, is encrypted with 128-bit AES. Information specific to you is not shared, though Automatic does aggregate anonymized data for research purposes.

Of course, Automatic is required to hand that information over to law enforcement if it's requested. And all of the assurances in the world couldn't prevent some sort of data theft, as we've seen with countless other cloud-based services.

Ultimately, you will have to decide whether the privacy risks are worth the many benefits that Automatic offers. However, you should also consider the potential upside

of having a perpetual log of your location. "No officer, I didn't do it, it was the one-armed man! See, here's my Automatic log from the day of the murder!"

However, it would be nice if Automatic offered an option to keep the data only on my iPhone and off the Internet.

Is Automatic for You? — No matter how you look at it, Automatic is a great value, especially with the 20 percent TidBITS discount. Standard OBD-II scanners run about \$50, and those only check for and clear error codes; Automatic does much more. Unlike many similar services, such as OnStar from General Motors, there is no recurring monthly fee. (And frankly, Automatic works better than any piece of software an automaker will likely ever crank out on its own.)

If you spend lots of time behind the wheel every day, whether for commuting or business travel, Automatic is a must-have that can help you save money, manage your gas budget, and call for help in case of an accident. Although the business tagging feature isn't quite baked yet, being able to export the data is still handy for generating expense reports, even if you need to pick the relevant data out by hand.

Automatic is also a must if you have a teen driver. The License+ feature helps guide your teen to better driving, while offering you peace of mind.

If you're like me and don't drive very often, Automatic's value proposition is dicier. However, I do think Automatic has helped me become more aware of bad driving habits. While my score has never dropped below the high 90s, my weekly average has been steadily ticking up, so I'm inclined to think that Automatic's gentle alerts are effective.

But if you're anxious about your personal privacy, Automatic might hit a sore spot. It is, after all, a tracking device. But as I explained above, it's your choice as to whether the benefits outweigh the potential risks, and I think for many people, they do.

Regardless of whether Automatic is right for you, it's a sleek, well-designed product from the packaging to the software. While there are still a few rough edges to be sanded down, it's more polished than any competing solution I've seen, including those built in to modern cars. 🚗



Snow in Yosemite: Apple Introduces OS X 10.11 El Capitan

Remember Mac OS X 10.6 Snow Leopard? For many people, Snow Leopard was a high point for OS X, focusing on performance and stability. The time has come again: while Apple made much of the fact that 55 percent of active Mac users are now running 10.10 Yosemite, there has been a strong undercurrent of discontent with Apple's prioritization of design and features over polish and stability. Apple would never say this out loud, but mix snow with Yosemite, and you get OS X 10.11 El Capitan, available for developers today, slated for a public beta in July 2015, and due "this fall."

What Apple will say is that "OS X El Capitan builds on the groundbreaking features and beautiful design introduced in OS X Yosemite, refining the experience and improving performance in lots of little ways that make a big difference." Changes will focus on two areas: user experience and performance.

Performance — There's not much to say here, because from the user perspective, more performance is both always appreciated and, once appreciated, largely ignored. Performance gains simply become the new normal, and you forget that something that was once painfully slow no longer is.

Apple is claiming that El Capitan will launch apps up to 1.4 times faster, switch apps up to 2 times faster, open PDFs in Preview up to 4 times faster, and display the first messages in Mail up to 2 times faster. In short, Apple is streamlining code for common activities, rather than relying entirely on faster hardware.

Arriving in El Capitan is Metal, a high-performance graphics API that first appeared in iOS 8 last year. With Metal, developers can give games and other graphically intensive apps more direct access to the graphics processor, enhancing system-level graphics rendering by up to 50 percent. Metal could be a boon for game publishers in particular, giving the Mac a leg up in a world where it has traditionally had a hard time competing.

User Experience — The changes you'll see — and perhaps appreciate more — fall into this category. But even still, they're relatively small, and are focused on making it faster and easier to use OS X and Apple's apps.

Split View: The new Split View takes a page from Microsoft's playbook (the Snap feature of Windows 7 in particular), fitting windows from two apps on the screen precisely. Utilities like Mercury Mover (see "[Move/Resize Windows](#)

from the Keyboard with MercuryMover," 19 May 2008) and the free [BetterTouchTool](#) have long provided similar capabilities, but having it built into OS X will make it more accessible to a wide audience.



Mission Control: Apple's window management feature Mission Control has been a part of Mac OS X since 10.3 Panther, and has seen numerous enhancements over the years. With El Capitan, Apple continues to tweak Mission Control, theoretically simplifying how you can put windows into new desktop spaces, and even put them in Split View directly. I personally don't use Mission Control, since I find maximum productivity with multiple monitors, but if you do, the refinements may be welcome.



Find Your Cursor: Now this one I'll love! With today's huge monitors, it's all too easy to lose your cursor, and while there have long been utilities that would locate it with the press of a key (try [Mouse Locator](#) or [PinPoint](#)), El Capitan expands the cursor briefly when you shake your mouse or shake your finger back and forth quickly on the trackpad. Simple, but effective.

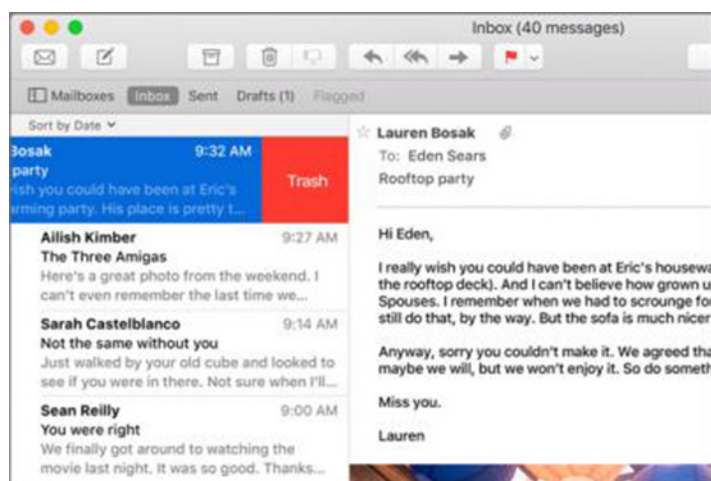
Spotlight: In Yosemite, Apple significantly extended Spotlight's reach, enabling it to display formatted search results

from data on your Mac and from the outside world. In El Capitan, Apple has given Spotlight a wider lens, enabling it to deliver answers for searches surrounding the weather, sports, stocks, Web videos, and more.

More interesting is that Spotlight gains a natural language parser, so you can ask for “documents I created in June 2014” or “email from Tonya last week.” These natural language searches also work in the Finder and in Apple Mail.



Apple Mail: — Speaking of which, Mail picks up a few features from its iOS sibling. Swipe right on a message to mark it as read or unread, or swipe left to delete. When you’re in full-screen mode, you can now dock a message you’re composing at the bottom of the screen. If you’re juggling multiple email threads, you can switch between them using tabs.



Mail also tries to identify events and contacts in email messages; offering to add them to your calendar or contacts list with a single click. This is probably just an enhanced interface for Apple’s long-standing Data Detectors technology, but if exposing it differently is what’s necessary for people to make use of it, great.

Notes: — The Notes app may be the most changed of any in El Capitan, gaining the capability to use styles, create and manage checklists, save content from other apps, and insert and view attachments (photos, videos, map locations, and Web links). Content syncs via iCloud, so you’ll have

access to your Notes from any of your iCloud-connected devices.

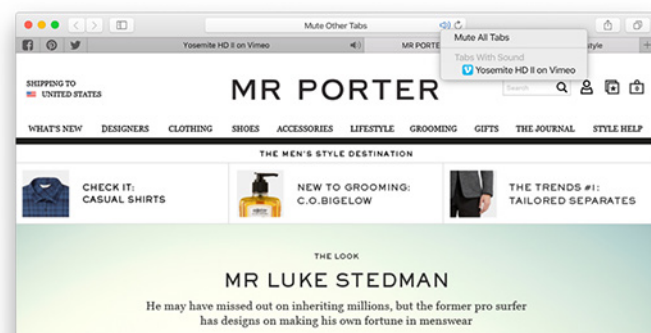


Photos: Apple didn’t feature Photos during the WWDC keynote, but the company is now promising a few heavily requested features for its replacement for iPhoto and Aperture. Most notable among these is support for third-party editing extensions that will be available from the Mac App Store and accessible within Photos itself. It doesn’t sound as though that will enable external editing in Adobe Photoshop, say, but it will go a long way toward enhancing the editing capabilities of Photos.

Apple also says that it will be possible to add a location to a single photo or to an entire Moment, and you’ll be able to sort photos within albums by date, title, and other metadata. Finally, a streamlined workflow is aimed at making it faster and easier to identify faces.

Safari: — Apple’s Web browser gains three useful features. First, you can “pin” sites to the left side of the tab bar to keep them handy and away from the rest of your tabs. They’ll stay active and easily accessible, and links you click from within a pinned site will open in new tabs. Google Chrome and Firefox have had a similar feature for years; they’re great for Web apps and other sites you keep open all day long.

Second, a new mute button appears in Safari’s Smart Search field if any open tab is playing audio; a single click silences the sound without forcing you to go hunting for the offending tab. Clicking and holding the mute button pops up a menu showing tabs that are playing audio so you can deal with them more easily.



Third and finally, AirPlay can now play video from a Web page to your Apple TV without showing everything else on the desktop.

Maps: — Apple has finally added transit directions to Maps, and while the feature has been a long time coming, it looks like the company has done a nice job. When you ask for transit directions, the display focuses on public transit lines instead of roads, and in places like New York City, where a subway station might lie under several city blocks, Apple has put a lot of effort into identifying exits in order to provide useful walking directions once you emerge, blinking, into the sunlight. Transit directions will be available in 12 cities around the United States and Europe to start, plus another 12 cities in China, and Apple said over 300 more were in the works.

Maps on the Mac is mostly for route planning, of course, but you can send a route to your iPhone with a few clicks.

International Features: It's clear that Apple is putting ever more emphasis on the Chinese market, such as with the transit support in Maps. El Capitan will also feature a new Chinese system font, enhanced keyboard input, and

improved trackpad handwriting. Japanese gets similar attention, with four new Japanese fonts and improved text input that can transform Hiragana into written Japanese as you type.

Details — At the moment, all we know about El Capitan's availability is that it will arrive "this fall" and will be free. Give Apple's past performance, that points toward a mid-to-late October release. Nothing was said about hardware compatibility at the keynote, but it turns out that El Capitan will run on all Macs that run Yosemite, Mavericks, and Mountain Lion. That's an impressive record of backward compatibility.

We're happy that Apple has seen fit to pull back from the features in OS X in order to focus on refining and polishing what's already there. Here's hoping that El Capitan also squashes some of the bugs that have persisted through the intermediate versions of Yosemite. 🍷

by Josh Centers

iOS 9 to Add More Intelligence and iPad Multitasking

At its Worldwide Developers Conference today, Apple announced iOS 9, due "this fall," with features designed to make iOS more efficient, more intelligent, and better suited to working on the iPad. Many of Apple's built-in apps are enhanced as well.

iOS Gets Intelligent — Perhaps most interestingly, iOS 9 will be much smarter than iOS 8. This starts with Siri, which Apple claims will be more accurate and capable, to the point of performing complex searches on your device. For example, you could say, "Show me photos from my 2014 trip to San Francisco." You'll also be able to tell Siri to remember what the current app is displaying. For instance, if you were researching a trip destination in Safari, you could say, "Remind me of this tonight." Or if you were looking at a Maps location, you could tell Siri to remind you about it when you get into your car.

Apple seems to have dropped the Spotlight name. Instead, search is just called Search, and is integrated with Siri. It will also once again be accessed by swiping to the right on the home screen, as opposed to swiping down in iOS 7 and 8. As with the enhanced Spotlight in OS X 10.11 El Capitan (see "[Snow in Yosemite: Apple Introduces OS X 10.11 El Capitan](#)," 8 June 2015), iOS 9's Search can show sports scores and schedules, weather forecasts, stock prices, and conversions. Most important, it will be able to search within apps, and developers will be able to create their own search hooks. In essence, if Siri can do something, chances are iOS 9 Search will be able to do it as well.

When you open Search, it will offer "Siri Suggestions" of relevant people and apps. It will also make suggestions for nearby places and news relevant to your location.

A number of features are being rolled into what Apple calls your "proactive assistant." iOS 9 will observe your usage patterns and suggest apps on the Lock screen that you may want to open at particular times. It will also automatically suggest music and podcasts when you plug in headphones, based on your location and time of day. iOS 9 can also automatically create calendar events from email messages, even going so far as to tell you when you should leave to arrive on time, based on traffic and walking time. Finally, the new version of iOS will scan your email in an attempt to identify calls from unknown numbers.

In its continued sniping at Google and other tech giants who don't have hardware-based business models, Apple emphasized that all information gathered would be anonymous. Even when information about your location or



other personal data is necessary, it won't be associated with your Apple ID, but will instead use a randomized identifier. Nor will any such data be linked to other Apple services or shared with third parties.

The iPad Levels Up – For years, Apple has largely ignored the larger screen of the iPad, encouraging slightly different interfaces, but otherwise treating it as a big iPod touch. That's no longer the case with iOS 9, as Apple will finally start taking advantage of the iPad's larger screen. (And you have to think that this may be a prelude to an even larger iPad to be released simultaneously with iOS 9.)

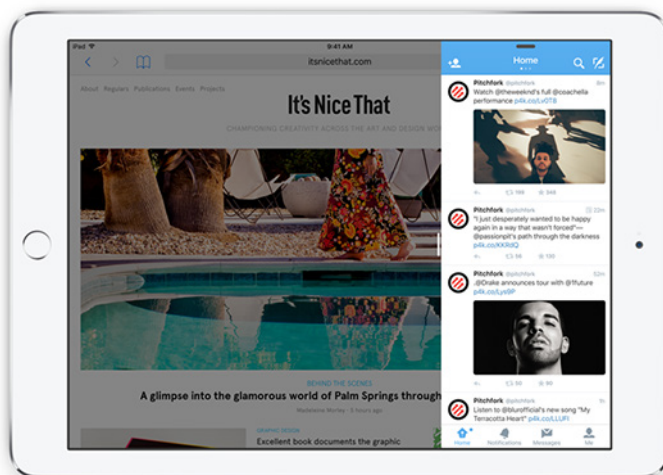
For those who have long cursed the difficulty of editing text on the iPad, text selection sees a huge improvement in iOS 9. You will be able to place two fingers on the screen to enable a "trackpad mode" that lets you select, edit, and move text. (Early reports from beta testers indicate that this will also be available on the iPhone 6 and iPhone 6 Plus.)

The keyboard also sees welcome improvements. A new Shortcut Bar is integrated with the QuickType bar, enabling you to easily cut, copy, paste, bold, or italicize text, plus insert images. Third-party apps can customize the Shortcut Bar. In addition, physical keyboards will be able to switch between apps and initiate searches, and third-party apps can integrate their own keyboard shortcuts. iOS 9 will reveal those shortcuts when you press Command, Option, or Control.

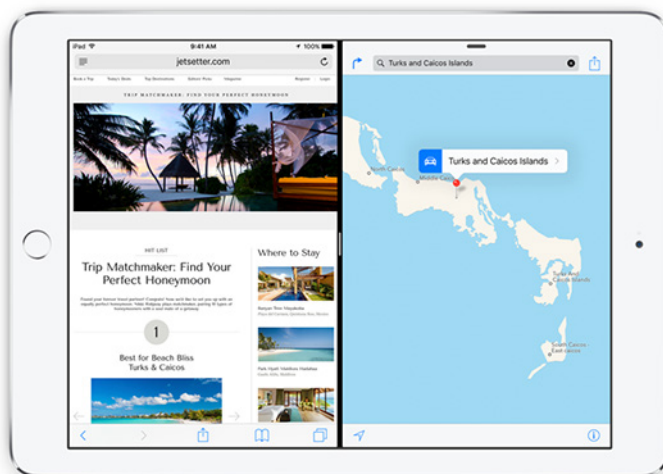


Perhaps the most important new development for the iPad is in multitasking. A new task switcher displays big full-screen app previews, which is nice, but what's really interesting is that you will be able to work with multiple apps at once, thanks to three new technologies: Slide Over, Split View, and Picture in Picture.

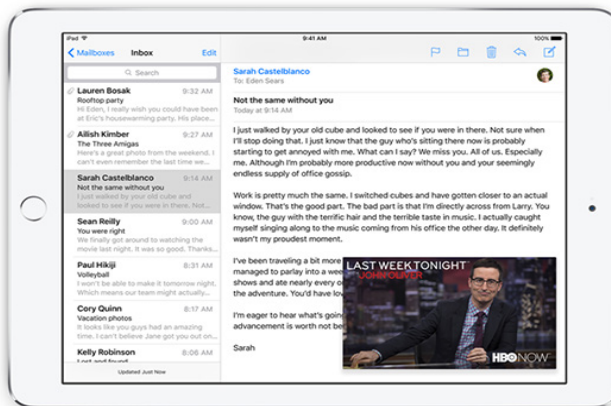
Slide Over: In iOS 9, you will be able to slide in another app, without leaving the one you're in. For example, you could slide in your Twitter timeline while browsing the Web, or jot down a quick note.



Split View: In this view, you can have two apps open at the same time, side-by-side, and adjust how much of the screen each one takes.



Picture in Picture: While watching a video or using FaceTime, you will be able to press the Home button to scale down the video to a corner of the screen. You can then use other apps while still watching your video, which can be moved and resized. For most situations, Picture in Picture probably won't enhance your productivity.



These features may encourage many people to replace old iPads, since they'll require an iPad Air, iPad Air 2, iPad mini 2, or iPad mini 3; Split View goes further, working only on the iPad Air 2.

News, Notes, and Maps — iOS 9 pulls the plug on the long-unloved Newsstand, replacing it instead with a new News app, which displays articles in a beautiful, friendly format, with support for videos and animations. You will be able to follow both individual publications and broad topics, with over a million topics to choose from. (Newsstand becomes a normal folder, which you can finally delete.)

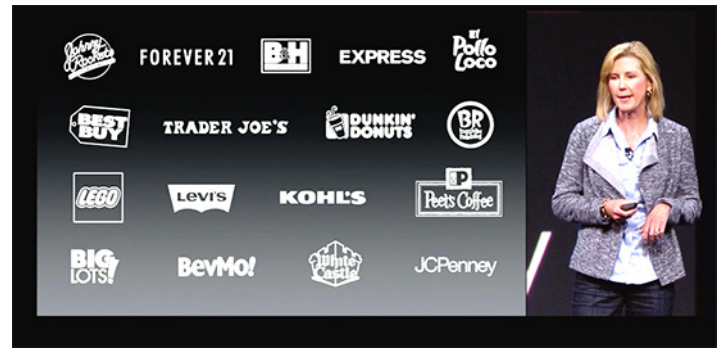
Apple is inviting all publishers to share their content on News, not just media titans. If you run a blog or publication, [you can sign up for News Publisher](#), as we have. The system is currently based around RSS, with a special Apple News Format coming in the future. We'll see just how tightly Apple tries to control what appears in News; will the company attempt to mimic what it has done in the App Store and the iBooks Store?

The Notes app sees a huge upgrade with iOS 9. Notes will include more formatting options, such as headers and lists, including checklists. You'll be able to attach photos to notes, and even draw sketches inside notes. Notes will also be available in the Share sheet, so you can send a URL to a note. And all of this will be synced between your devices via iCloud; the Mac version of Notes in OS X El Capitan sees a similar update.



Urban dwellers will be thrilled to see that Maps in iOS 9 will feature transit directions. However, it will be available in only the following cities at launch: Baltimore, Beijing, Berlin, Chengdu, Chicago, Guangzhou, Hangzhou, London, Mexico City, New York City, Philadelphia, San Francisco, Shanghai, Shenzhen, Toronto, Washington D.C., Wuhan, and Zhengzhou. Apple promises 300 more cities to follow. Like Search, Maps will also offer nearby suggestions in its search screen.

Apple Pay and Wallet — Passbook is being rebranded as Wallet in iOS 9, and reward cards will be integrated into Apple Pay. Initial partners include BJ's Wholesale Club, Dunkin' Donuts (take that, Starbucks!), JCPenney, Kohl's, Panera Bread, and Walgreens. More retailers are also supporting Apple Pay, including Baskin-Robbins, JCPenney, Peet's Coffee & Tea, and Trader Joe's.



Apple Pay is also coming to the UK in July, with 250,000 supported locations at launch.

Apple also announced a number of new Apple Pay partners. Discover will join Apple Pay this fall, Square is launching a new reader that will support Apple Pay — a boon for small businesses! — and Pinterest is launching a new “buyable pins” feature that will enable users to purchase pinned items directly from Pinterest with Apple Pay.

Increased Efficiency at the Core — Although these aren't the sexiest features, Apple has done a lot of work to make iOS 9 more efficient at its core. Anyone who has suffered from an iPhone running out of juice at an inopportune time will appreciate an extra hour of typical use, simply from more effective use of power. On top of that, iOS 9 will introduce a Low Power mode, which can automatically turn off features to extend the iPhone's battery life by up to three hours. Also in iOS 9, the ambient light and proximity sensors will be used to prevent the screen from turning on when the device is face-down on a table.

Helpfully, Apple is also making the iOS 9 update require less free space to work around the problem experienced by users who couldn't update to iOS 8 without resorting to iTunes. iOS 9 will require only 1.3 GB, as opposed to the monstrous 4.6 GB download of iOS 8. On the security side, iOS 9 will offer six-digit passcodes and two-factor authentication.

All of these foundational improvements will benefit every user of iOS 8, since iOS 9 will support the exact same devices.

Apple is so dedicated to everyone using iOS 9 that they're introducing a way to migrate your data from Android. The upcoming Move to iOS app will wirelessly and securely upload your contacts, message history, photos, videos, bookmarks, email accounts, wallpapers, and even DRM-free songs and books to iCloud. Move to iOS will suggest alternatives for your free apps, and add paid app equivalents to your iTunes Wish List.

The Rest — Here are a few random new things we noticed about iOS 9 — please let us know about others in the comments!

- The Apple Watch's San Francisco typeface is the new system default, except for body text.
- Photos features a new scrubber to move quickly through photos.

- HealthKit will track new things, like hydration, UV exposure, and menstruation.
- HomeKit will be able to work with home security systems and sensors for things like carbon monoxide. It will also enable you to access your smart home devices via iCloud.
- CarPlay will support automaker apps that can control car systems, it will support more types of screens, and future cars will be able to use CarPlay wirelessly. We're waiting to see it show up in any cars you can actually buy.

- Developers receive three new frameworks: GameplayKit, which controls artificial intelligence; Model I/O, which controls the lighting of 3D models; and ReplayKit, which allows users to record and share gameplay videos.
- Apple is launching Swift 2, with more features, but the big news is that Swift is being open-sourced, with libraries for iOS, OS X, and Linux. (For more on Swift, see "[Swift: Who Is Apple's New Programming Language For?](#)," 12 June 2014)
- A public beta of iOS 9 will be available to everyone in July. You can sign up here. 📱

by Tim Sullivan

Rumors and Reality

Fonts Part 1: Remember the emoji font, the one with the cute little cartoons? As it turns out, that font can be used in all sorts of names on your computer and even iPhone such as

- your username
- computer or app or folder names
- wi-fi
- email accounts

Check [here](#) for more info.

Fonts Part 2: Helvetica Neue, we hardly knew ye. The font came to iOS 7 in 2013 and OS X Yosemite just last year, beginning with a June debut at WWDC. Critics complained the Helvetica Neue was clean at the expense of being legible

It's being replaced by San Francisco. Definitely not that funky font available on the very first Macs. The casual observer might not see any differences in the fonts — they are subtle

The Quick Brown
Fox Jump Over
The Lazy Dog. **San Francisco**

One of the keys to readability in the new font is the size of the lower case letters compared to upper case letters: large x-height: lower-case letters are around 75% of the height of capitals, making lower-case letters larger than in a typical font. The 'eye' of letters like e and a – the gap between the tail and the rest of the letter – are also larger than usual. Also the strokes become thinner in intersections such in the letters p, h, and g.

San Francisco comes in two (or four, depending on how one counts) versions. The main difference between San Francisco and San Francisco Compact is that the round letters in San Francisco, such as o, e, and s, have left and right sides that are round, whereas in San Francisco Compact, they are flattened. The flat sides allow the letters to have more space between them, making the text more legible at small sizes, which is particularly important for the Apple Watch.

Both San Francisco and San Francisco Compact each have two optical sizes: Display and Text. Display is meant for large text, such as titles, and Text is for body text. Compared to Display, the letters in Text have larger apertures and more generous letter-spacing. The operating system automatically chooses Display or Text depending on the usage.

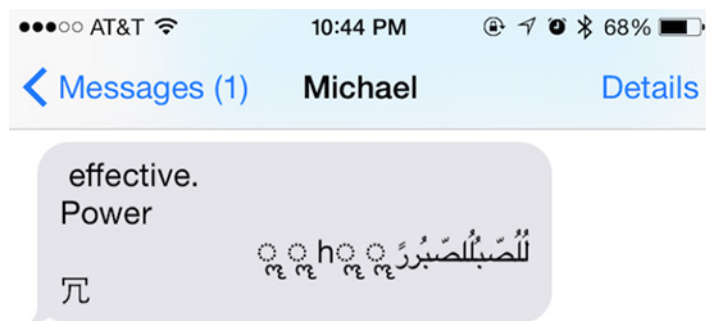
Macrophages

Macrophages

Helvetica Neue (top) has rounder letters (c, o, p).

San Francisco (bottom) doesn't have the serif on the a, the small letters are taller compared to the capital letters, and the strokes become thinner in intersections such in the letters p, h, and g.

A message to kill them all. The following message, if opened on an iPhone, will stop the phone in its tracks.



Can someone please explain to me who finds these things?

SSDs: Gotta love the little guys — so much data, so little space. BUT I did run into this caveat:

Research shows that solid state drives can lose data over time if they aren't powered on, especially in warmer environments. A powered-off drive in 104 degrees Fahrenheit may start seeing data loss after a couple of weeks.

It notes that consumer SSDs, when powered-off in 86 degrees Fahrenheit, should retain data for about a year. Bumping up the temperature by 9 degrees Fahrenheit reduces the time of data retention by half. That's beginning to sound like my car on a hot day. Store your SSD in 131 degree heat, and it might start losing data after a couple of days.

Multitouch gestures: There are a lot available. Personally I use a few basic ones. I have many really good excuses. Really, I do.

Keep in mind that while Apple may support these gestures, not all third-party apps take advantage of them. That said, there are some resources for expanding my horizons.

- The first, and most obvious, source of information can be found by going to System Preferences > Trackpad. It is here that the user can select which gestures are enabled (or not) and see an animation of what actually happens.

- [The Lion Multitouch Gesture Guide](#), a compendium of gesture available for OS Lion

- Use four fingers on your trackpad.

- Swipe them up and you will activate Mission Control.

- Place four fingers toward the center of the trackpad and then spread them apart and you will push the windows aside to see your Desktop ... or pinch them together to open Launchpad. If enabled, you'll access App Expose just by swiping down with four fingers – enabling you to quickly and easily see what windows you have open in the application.

- Swipe between full-screen apps by swiping left or right with four fingers.

- Three-fingered moves

- If you have text selected in an app that supports this feature, a single tap with three fingers will invoke the dictionary for that text.

- If you select an app by hovering your cursor at the top of the app window, you will be able to move that window just by moving three fingers around the trackpad.

- Two fingered moves

- Two finger click to right-click and item.

- Swipe with two fingers in a direction to scroll.

- In Safari you can swipe right with two fingers to go back or simply swipe left to go forward in your browsing session

- Smart zoom into an item by double tapping with two fingers.

- Flip between iCal calendar pages with a two fingered left swipe

- Rotate an image by rotating two fingers in Preview.

Force Touch is a feature available on Apple's new MacBooks. The trackpads feature built-in force sensors that allow you to click anywhere and haptic feedback that provides a responsive and uniform feel, and enables you to get to contextual menu items just by pressing firmly on the trackpad. A complete list of supported ForceTouch options is available [here](#).

On June 9 the following Apple items became obsolete:

iPhone

- iPhone 3G
- iPhone 3G (China)
- iPhone 3GS
- iPhone 3GS (China)
- Original iPhone

Macs

- MacBook Pro (17-inch, Mid-2009)
- iMac (20-inch, Mid 2007)
- iMac (24-inch, Mid 2007)
- MacBook Pro (15-inch, 2.4/2.2GHZ)
- MacBook Pro (17-inch, 2.4GHZ)

Other:

- AirPort Express Base Station
- Xserve (Late 2006)
- Xserve RAID (SFP, Late 2004)

All of the products above officially moved to their new status on June 9, 2015, and are no longer supported for repair by Apple Stores or authorized resellers, but Apple continues to offer support by phone for AppleCare customers.

There are those who claim that exposure to Wi-Fi is making people sick, and some people (about 5% of the population) don't even know it. It's called Wi-Fi sensitivity,

and doctors say it's a very real condition with serious consequences.

People report feeling ill. One person reported sensations of "a deep burning sensation in my face, in my nose, my jaw, it was like a deep burning sensation." They walk around feeling ill

Google has upped the anti in photo storage and management with Photos.

It includes lightweight desktop software that will scour your Mac or PC for photos and videos new and old, uploading them to a private album in the cloud. It uses impressive machine learning to understand what's in a photo, turning each picture into a series of keywords that are as searchable as Gmail. And it stores an unlimited number of files, at a resolution up to 16 megapixels or 1080p video, for free — making Google Photos the most generous photo storage option on the market.

Collections of thousands and thousands of photos can quickly become useless unless they are well and truly organized. Google determined that most people categorize their photos in four ways: who's in it, where it was taken, what's in it, and what type of image it is: a video, a panorama, and so on.

Tap Google's familiar magnifying glass icon inside Photos, then, and that's what you'll see: there are the faces that appear most often in your photos, ranked by frequency.

There are places where you've shot the bulk of your pictures and videos. There's a personalized list of things you like to photograph — concerts, food, and dogs, in my case. And, finally, there's access to your videos and to what Google calls "creations" — algorithmically generated animations, collages, photo albums, and video montages.

Photos apparently automatically applies face detection to uploaded photos. It can readily present a person even as they age.

In case you missed it. A Silicon Valley recycling firm received a 1976 Apple 1 computer built by Steve Wozniak. When they realized what they had, the firm sold it at a private auction for \$200,000. They have offered to split the proceeds with the woman who dropped it off. 🐼



Software Review

Digital Camera RAW Compatibility 6.04

May 4, 2015 – 7.7 MB

System Requirements

- OS X 10.10 or later

This update adds RAW image compatibility for the following cameras to OS X Yosemite:

- Canon EOS 5DS
- Canon EOS 5DS R
- Canon EOS Rebel T6i / 750D / Kiss X8i
- Canon EOS Rebel T6s / 760D / Kiss 8000D
- Fujifilm X-A2
- Hasselblad CFV-50c
- Hasselblad H5D-50c
- Leica C (Typ 112)
- Nikon 1 S2
- Nikon D7200
- Olympus OM-D E-M5 Mark II
- Panasonic LUMIX CM1
- Panasonic LUMIX DMC-GF7
- Pentax MX-1

Apple Watch OS 1.0.1

May 19, 2015

System Requirements

- Phone 5 or later
- Available via OTA through the Apple Watch app

This release includes performance improvements and bug fixes including the following:

Improved performance for:

- Siri
- Measuring stand activity
- Calculating calories for indoor cycling and rowing workouts
- Distance and pace during outdoor walk and run workouts
- Accessibility
- Third party apps

Display support for new Emoji characters

HP Printer Drivers 3.1 for OS X

Jun 18, 2015 – 573.3 MB

System Requirements

- OS X Lion or later

This download includes the latest HP printing and scanning software for OS X Lion or later.

Epson Printer Drivers 3.1 for OS X

Jun 18, 2015 – 1.22 GB

System Requirements

- OS X Yosemite 10.10 and later

- OS X Mavericks 10.9 and later
- OS X Mountain Lion 10.8 and later
- OS X Lion 10.7 and later

This update installs the latest software for your EPSON printer or scanner for OS X Yosemite, OS X Mavericks, OS X Mountain Lion, and OS X Lion. 🖨



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