

# What's New in iOS 14

BCUG  
10/22/20



# Why the Changes in iOS?

When the iPad was introduced, Steve Jobs described the iPad as a “content consumption device” as opposed to the Macintosh Computer which was a “content creation device”. As the computing world has advanced and more products are now competing with the iPad, often with more content creation capability than the iPad. Apple has responded with a flurry of releases of updated iOSs, Apple has been adapting the iPad into a “content creation device”. In 2015 Apple introduced PencilKit to the iOS framework, which allowed the new iPad Pro to use a mechanical pencil (stylus) like device on Apple iPads, (Yes that sound you hear is Steve Jobs spinning in his grave.) and thus the iPad became a “Content Creator”. Apple has also been making it easier for your iOS device to use external storage devices; both wired via a dongle or wirelessly on a network.

# Marzipan & Fuchsia

Apple has project Marzipan and Google has Project Fuchsia. Both these projects have the same objective, to create an Operating System in which all Apps will work seamlessly across different devices. In case of Google, an app developed for Google devices will work the same on an Android Phone or a Chromebook. In Apple's case any new App will work the same on an iPhone, iPad, or Macintosh computer despite the difference in hardware, screen size, resolution or storage system. With iOS 14 and Mac OS 11 a file started on an iPhone will open seamlessly with no loss of quality or formatting on an iPad, or MacBook or MacPro, or vice versa. With the soon to be introduced Mac OS 11, Big Sur, Apple will have achieved this goal.

# iOS 14

## Which Apple iOS devices can run iOS 14

### iPhone models

iPhone 11  
iPhone 11 Pro  
iPhone 11 Pro Max  
iPhone Xs  
iPhone Xs Max  
iPhone Xr  
iPhone X  
iPhone 8,  
iPhone 8 Plus  
iPhone 7  
iPhone 7 Plus  
iPhone 6s  
iPhone 6s Plus  
iPhone SE (2<sup>nd</sup> Generation)  
iPhone SE (1<sup>st</sup> Generation)

### iPads Models

iPad Pro 11' (2019 & 2020)  
iPad Pro 10.5' (2017)  
iPad Pro 9.7' (2016)  
iPad Air 2 (2014)  
iPad Air (2019)  
iPad mini (2019)  
iPad mini 4 (2015)  
iPad (2017, 2018, 2019)

### iPod Touch Models

iPod Touch 7<sup>th</sup> Generation



# What's New in iOS 14?

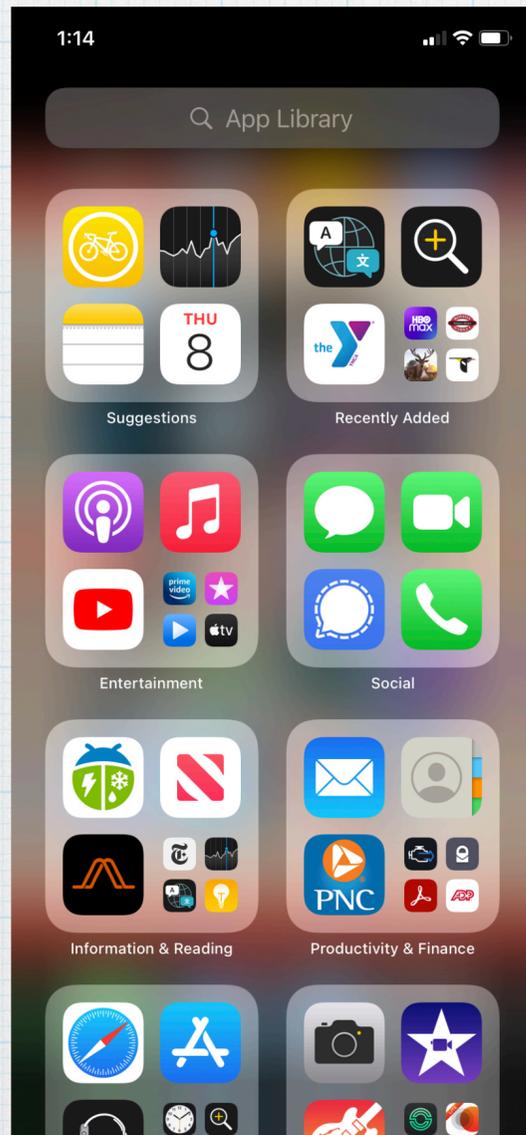
Apple has also been following the the advances in Artificial Intelligence and Machine Learning. They have used these advancements into its mobil operation system, iOS. Both for iPhone and iPad. AI and ML are now incorporated into all aspects of your iOS 14 device. It is these advances that prompts Smart Widgets to autorotate and show you the Widget your iPhone 'thinks' is appropriate. ML allows the iPad on OS 14 to reject the interactions of your palm on the screen when using your Apple Pencil. ML is also used for translating your hand writing into text. d.

# How To Download iOS 14?

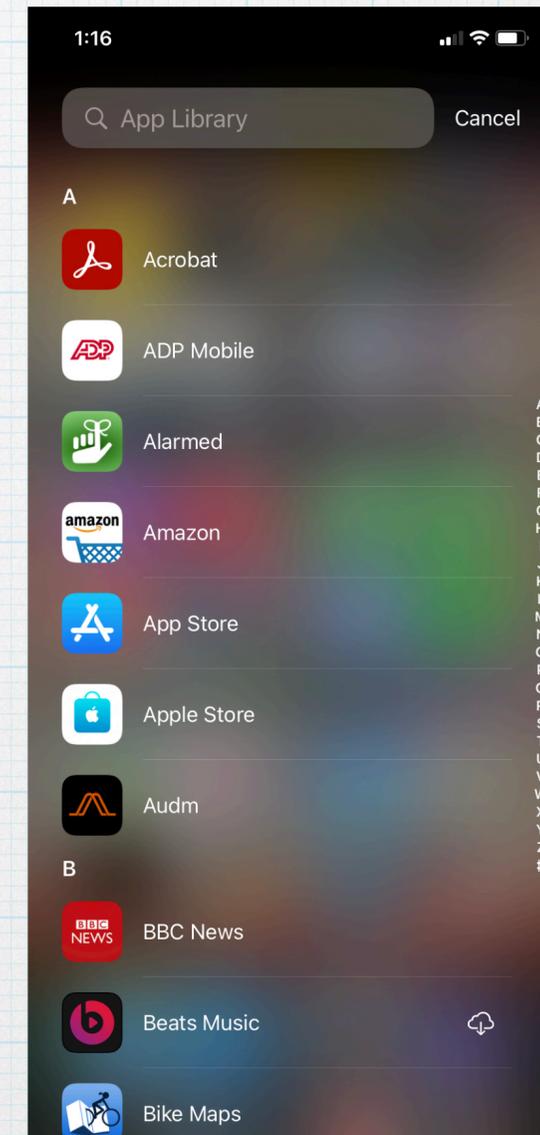
It could not be easier. Go in 'Setting', then select 'General', then select 'Software Update' and you see the option to to 'Update' to iOS 14. This is if your iOS device is compatible. Make sure to backup your iPhone or iPad to either iCloud or your Computer before updating. It is also best to already have your iDevice attached to a power supply.



# iOS 14: A New App Library

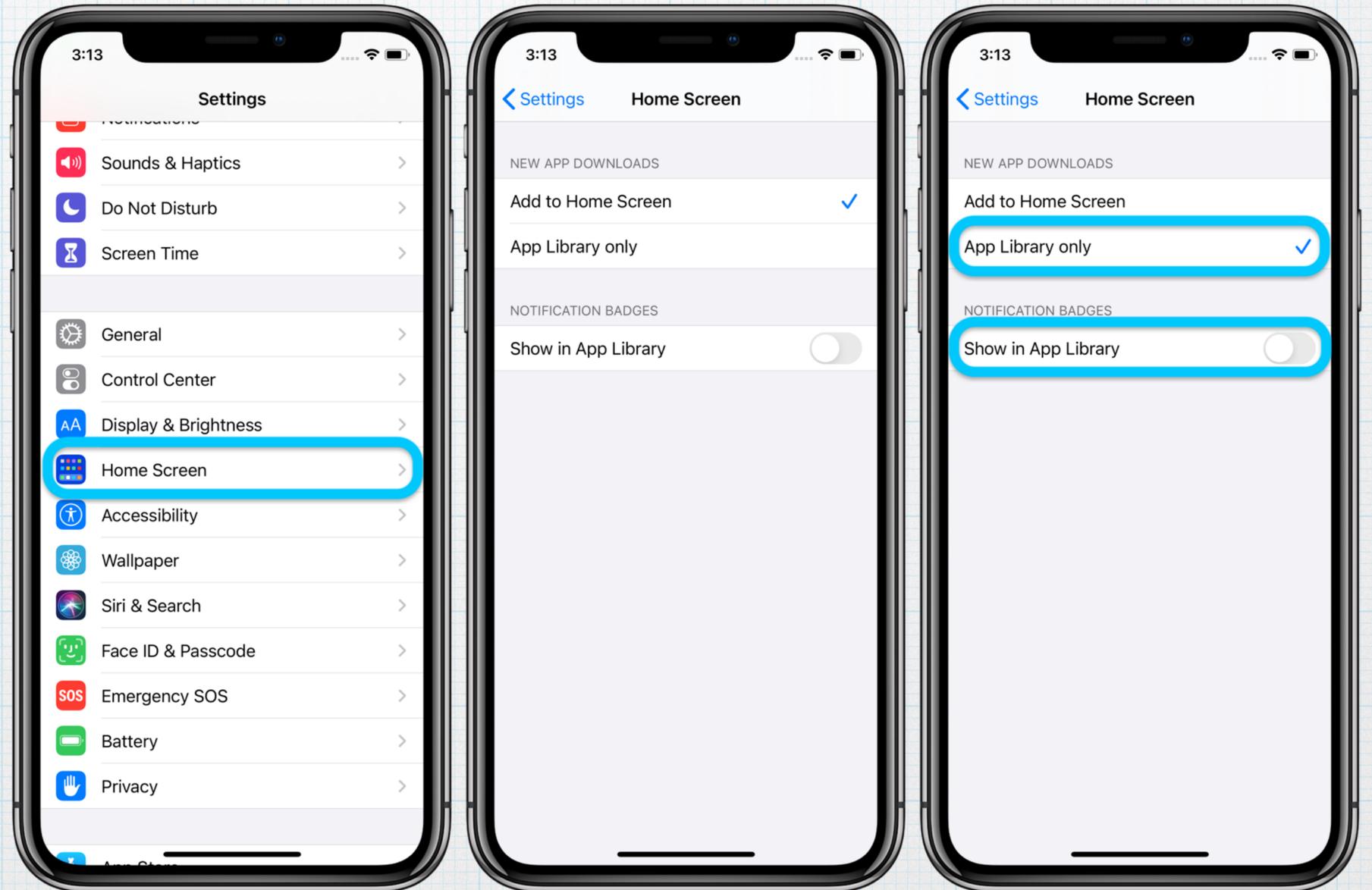


The App Library with 'Frames' is perhaps the most noticeable and important change in iOS 14. Apple decides into which frame each app will go in. Then, depending on your usage, how each app in the frame will be arranged. You can ignore this and use your Homepage as you always have.

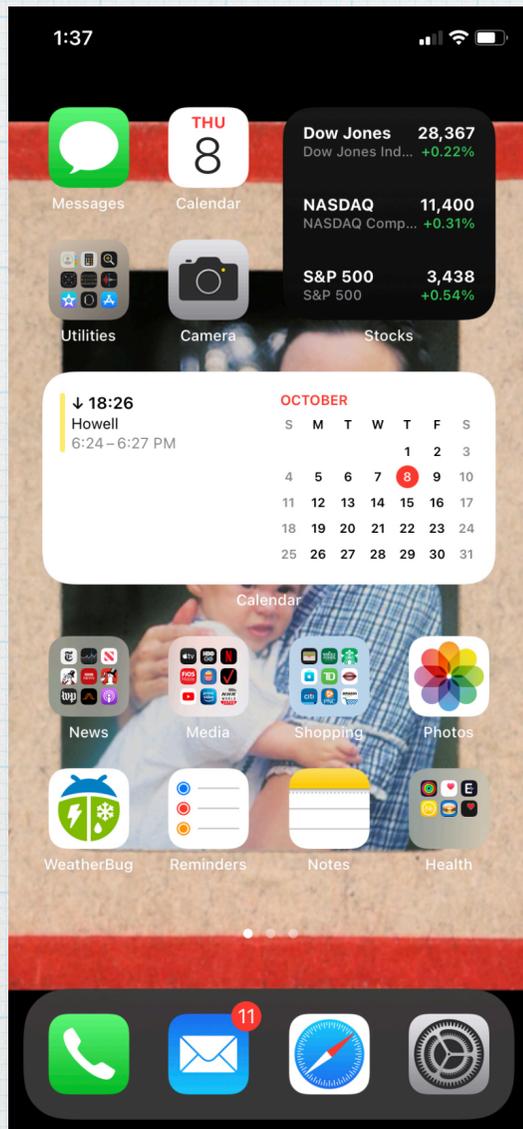


# iOS 14: A 'Home Screen' Setting, in Settings!

In selecting the Home Screen in Settings, you can choose to have Newly Downloaded Apps added to your Home Screen or to the App Library Only.



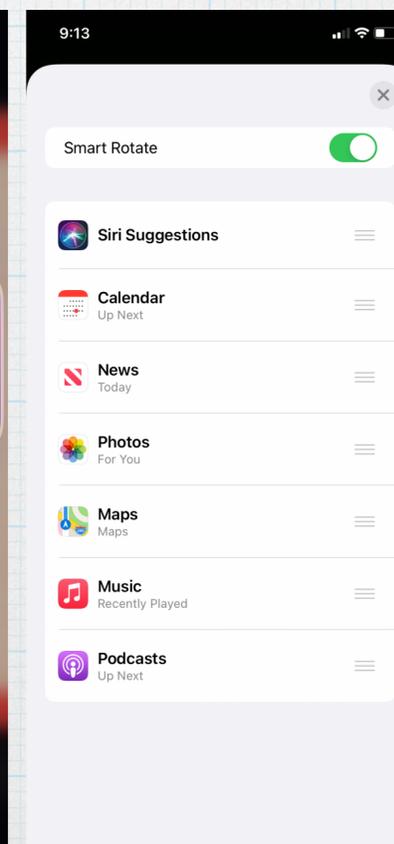
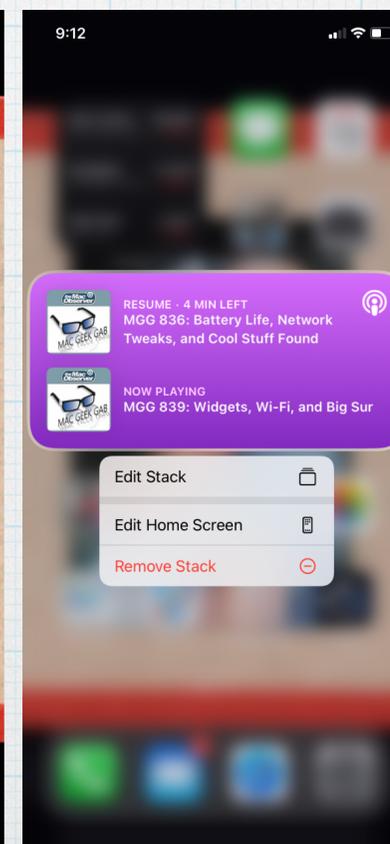
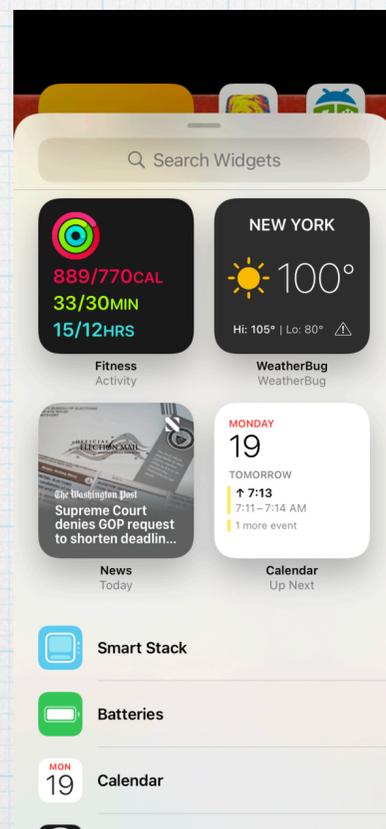
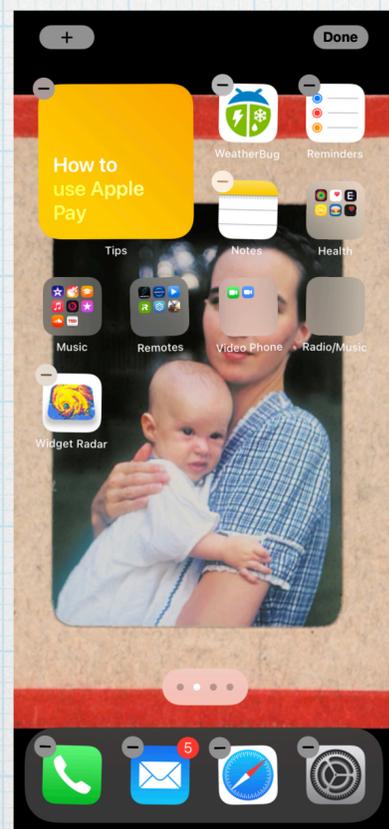
# iOS 14: Widgets Move Out Front!



Widgets are now a big deal and out front! There is also ton of new widgets for all sorts of subjects. There are 2 kinds; there is your standard Widget that does one thing, like the stock market or weather reports. The other option is to make of Stack Of Widgets or there is a Smart Widget. A Smart Stack Widget will contain several Widgets and the Widgets are scrollable. Most often the Widget displayed has been chosen by the iOS or one can scroll from one Widget to another.

# iOS 14: Smart Stack Widget!

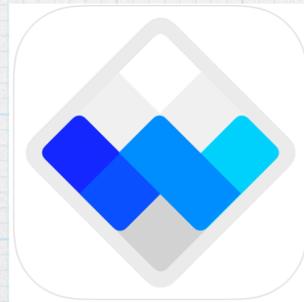
A Smart Widget comes with your copy of iOS 14, you add Widgets to the stack. Scroll through the Widgets, or with Siri's help Widget Stack Auto-rotate showing displaying the right Widget at the right time. Long Tap an empty space to and press the "+" icon to add a Widget or create a Widget Stack. Long Tap a Smart Stack to edit the stack.



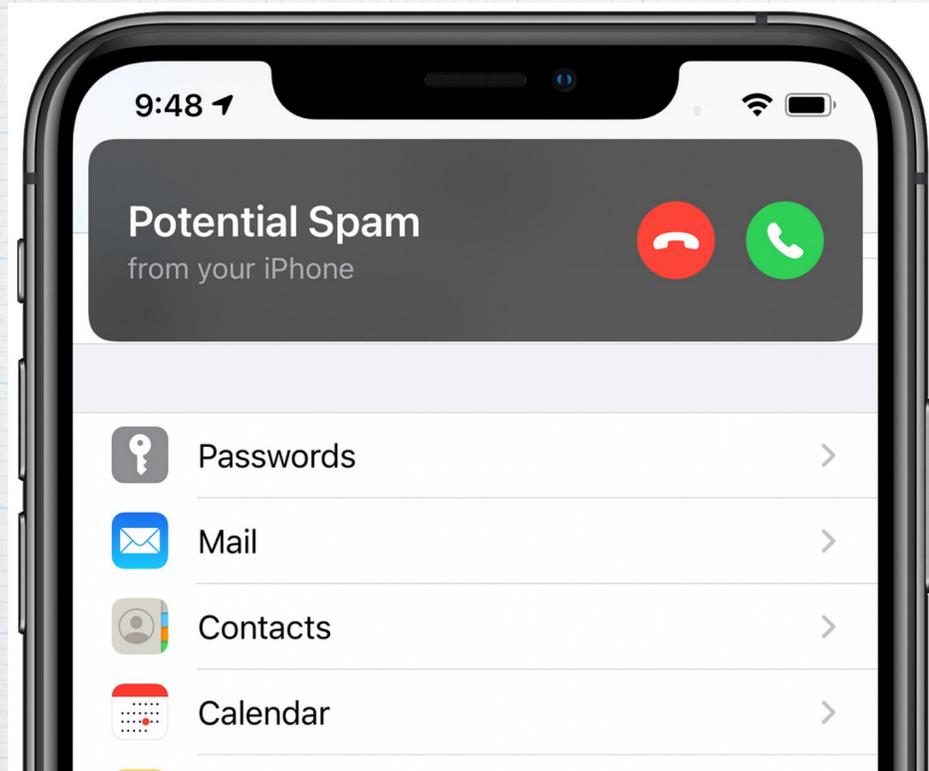
# iOS 14; There are now Apps to help you create your own Widgets

There are now Apps to help you create your own Widgets for either your iPhone or iPad.

There are Widgetsmith, Widgeridoo, Widget Wizard, Glimse, and Health Auto Export, just to name a few. You can always create a Widget on your own.



# iOS 14: A New Compact UI



## Compact UI

Apple now allows you to change your phone call or FaceTime call from taking up your entire page to only a banner. Allowing you to text messages, edit photos, or watch a movie at the same time. Swipe up to dismiss or swipe down to restore the full phone features on your iPhone. Pinch to resize image boxes. Siri, and searches also have new compact designs

# iOS 14: Changes in Messages!

Changes in Messages is one of the more notable of changes in iOS 14. You can set text, a photo or a customized emoji as a icon for group messages. You can pin messages; you can pin up to 9 messages, so that they stay at the top of the list in your Message app. Mentions, allow you to be notified of a new group message only when you are mentioned in the message. Mentions also let you to direct a message than individual in the group by typing their name preceded with the '@' icon..



# How to use Mentions

To send a message in a certain individual in a group text



- 1) Tap the Messages Icon on your Homescreen
- 2) Choose the Group Chat you want to respond to
- 3) Type your message as usual
- 4) Include the @ icon with the persons name for whom you want to create the mention
- 5) Tap the 'Up Arrow' to send the message

You can also create alerts for when you are mentioned in a group text, even if you have turned off alerts for Messages.

# iOS 14; Improved in Maps?



Maps has been improved in several ways. Maps now covers more countries. If you have an electric car, Maps automatically adds recharging stops and includes recharging times in your ETA. Maps can also keep track of charging type, current charge, and plot the best route for your specific electric car, once you securely add your electric car type to your iPhone.

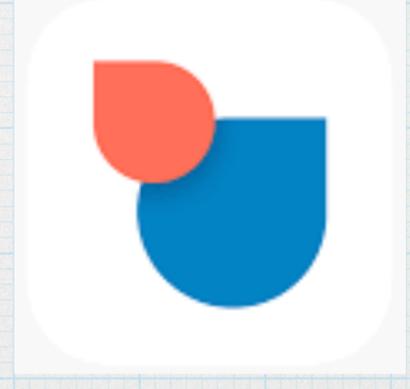
If you bicycle, Maps will now route bike trip along bike lanes, bike paths and bike friendly roads.

Guides offers recommendations for sites to visit, trusted shops and restaurants.

Most importantly, Maps now alerts you when you are approaching speed and red light cameras!

# iOS 14; you can now use 3rd party apps for your default Web Browser and email!

With iOS 14 Apple now allows you to select a 3rd party app, such as Chrome, Edge, or Firefox of other 3rd as your default Web Browser. You can also choose Outlook, Spark or Twobird as your default email app.



# iOS 14: Translate!

Conversations are easy by design with Translate. Turn the phone to landscape to split the screen and show text from both sides of the conversation. Just tap the microphone button to say something, and automatic language detection transcribes the original and translated text on the correct sides of the screen, followed by the translated audio.

Translate is available in 11 languages.

You can translate your voice from one language to another.

Tap on a word to see its definition in Dictionary.

All languages have their Keyboards included for easy switching from one language to another without having to download the language.



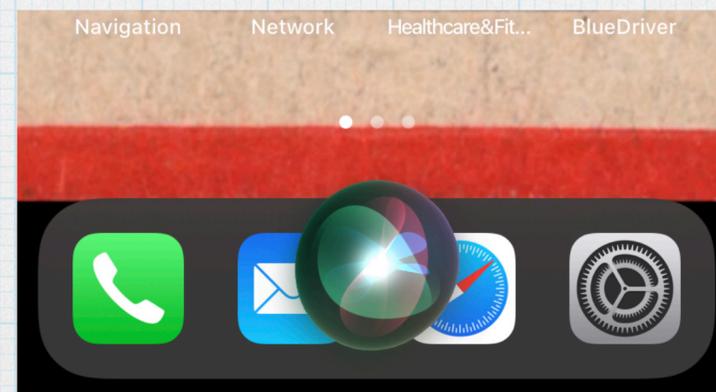
# iOS 14; 'Hey Siri', What's New?

Siri has a new compact UI, and has 20 times more facts stored than 3 years ago and now uses information from the internet without you having to browse the internet.

Siri works well with Maps to give you ETA, and you can ask Siri for bicycling directions.

Siri's voice has been improved and better text to speech translation.

Siri also now works with 3rd party Apps like WhatsApp



# iOS 14: What's Happening at 'Home'.

Home offers better interactions with HomeKit, in particular HomeKit cameras, with Facial Recognition for Cameras and Doorbells, Activity Zones, and the Home App now offers a Control Center on your iPhone or iPad.

More adaptive lightings for Smart Bulbs.

Apple TV now works with Home Kit as well.



# iOS 14; Improvements to Safari.

Safari has improvements in Privacy, with Safari giving you Privacy reports.

Easy translation (In Beta) for entire Web Pages with compatible Web Sites.

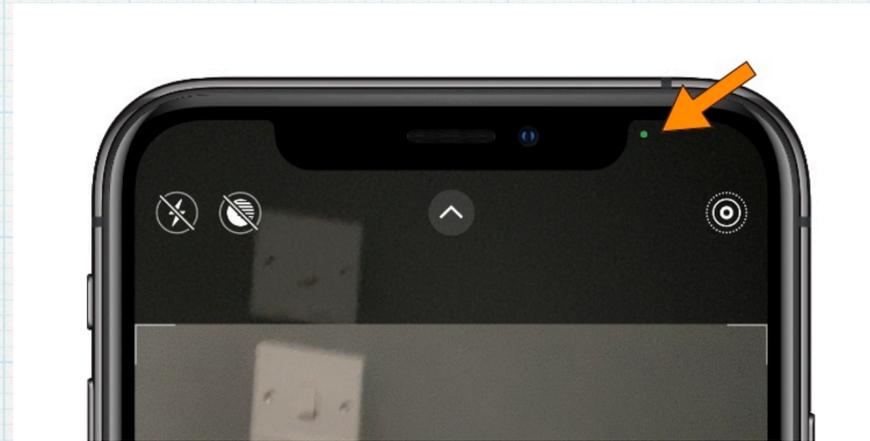
Much improved Java Engine.

Password monitoring, securely saving passwords and monitoring for passwords involved in data breaches.

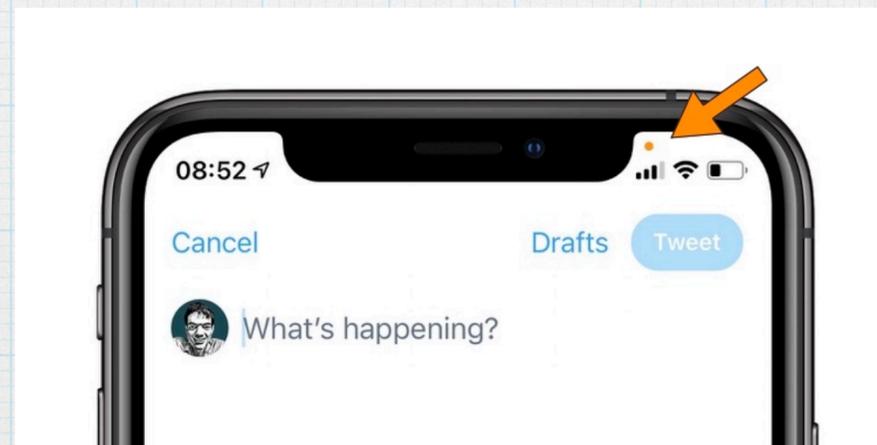


# iOS 14: Speaking of Improved Privacy and Security.

A LED lights up when the Camera and Microphone are being used by an APP.



The Green Light appears when an App is using the camera.



The Orange Light appears when an App is using the microphone.

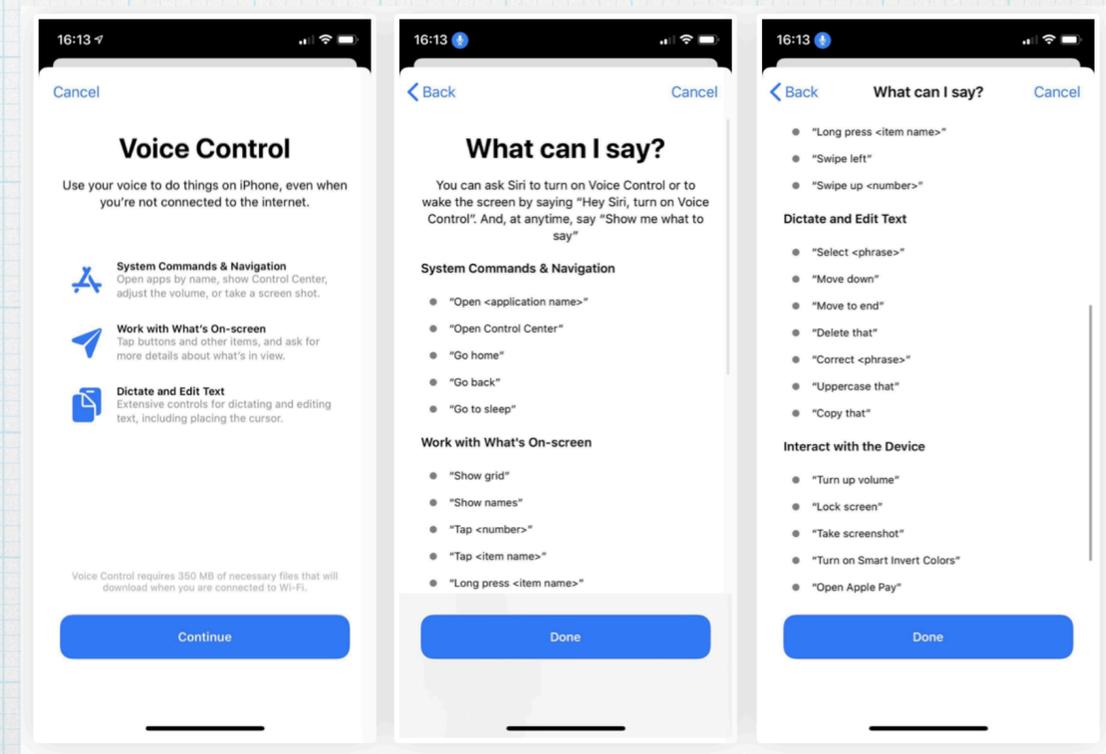
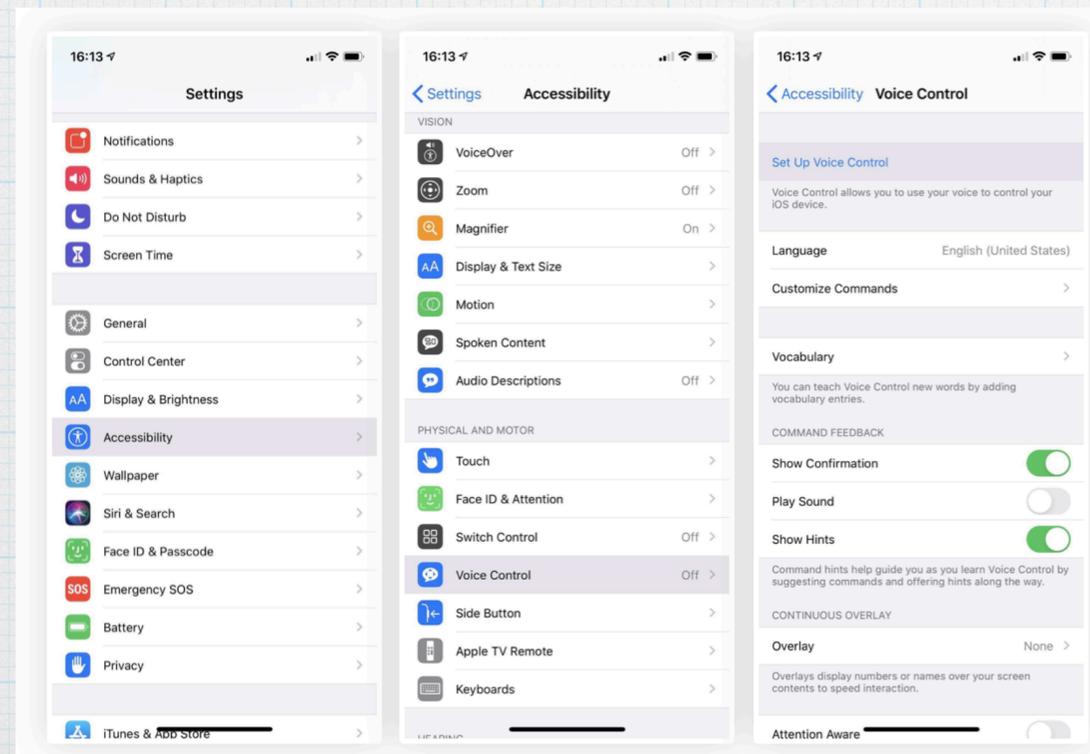
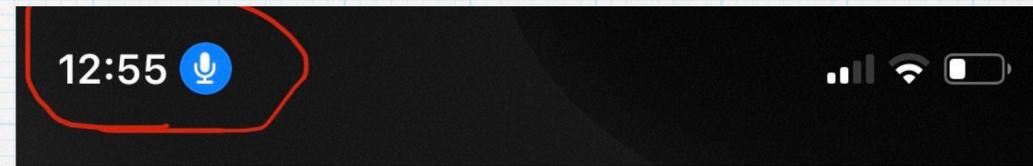
# iOS 14; Hidden Changes in Accessibility.

iOS Hackers love the often overlooked features in Accessibility, and there are plenty changes and enhancements in Accessibility for hackers to play with for the Accessibility functions help everyone, not just the impaired. The Accessibility Apps grouped for Physical and Motor, Hearing, and Vision. 'Sound Recognition' uses AI to help the hearing impaired by enhancing certain sounds; like a door bell, running water or crying baby. 'FaceTime' now recognizes when someone is using Sign Language and increases the frame size and focus to accommodate the person signing. VoiceOver is greatly improved and expanded.

# iOS 14 Accessibility: Voice Control

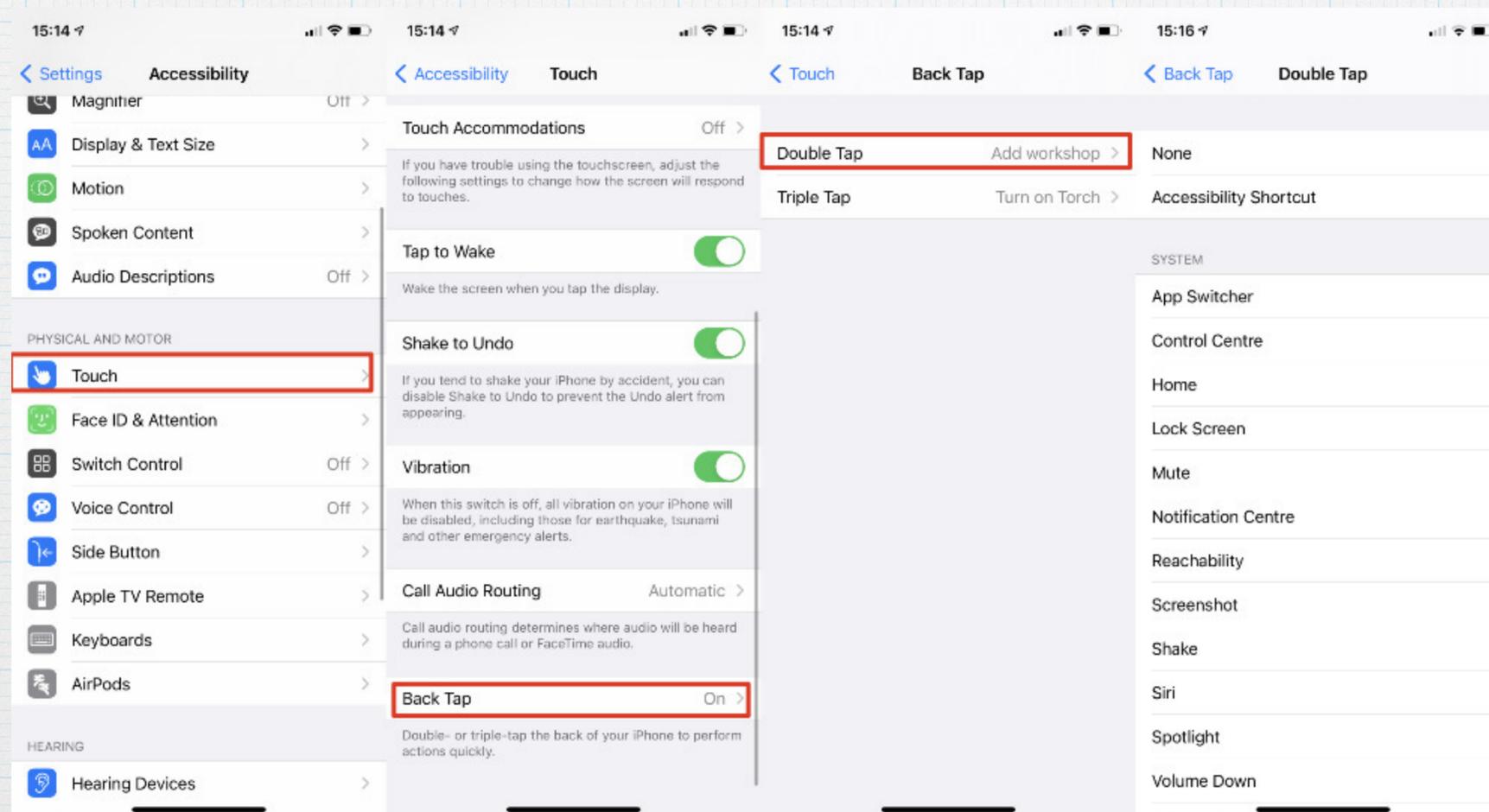
Voice Control is accessed via Accessibility Setting. There are a multitude of new commands to let you truly go 'Hands Free'. These commands are both customizable and editable. The 'Speech Recognition Engine' is vastly improved. Voice Control has added British English and Indian English.

A Microphone Icon appears when Voice Control is active in the background.



# iOS 14 Accessibility: Back Tap!

Back Tap allows to activate a function of your iPhone by with a double or triple tap on the back of your iPhone.



# iOS Custom Icons

In catching up to Android, Apple now allows you to create your own custom icons on your own by employing 'Shortcuts', or you can buy an App to help you do it. Finally you can also buy a set of custom icons from ESTY.

The screenshot shows the App Store page for the app 'Mycons - Aesthetic App Icons' by Daniel McCarthy. The page includes a navigation bar with links for Mac, iPad, iPhone, Watch, TV, Music, and Support. Below the navigation bar, there is a section for 'App Store Preview' with a note that the app is available only on the App Store for iPhone. The app's icon is a black square with three circles (white, pink, yellow) at the bottom. The app's title is 'Mycons - Aesthetic App Icons' with a '4+' rating. The developer's name is 'Daniel McCarthy'. The app is ranked #63 in Graphics & Design, has a 4.0 star rating from 8 reviews, and is free with in-app purchases. Below the app preview, there is a section for 'iPhone Screenshots' with four screenshots. The first screenshot shows the 'Icon Studio' app interface with a Twitter icon. The second screenshot shows a home screen with a calendar widget and various app icons. The third and fourth screenshots show alternative home screen designs with different icon styles and backgrounds. At the bottom of the page, there is a section titled 'So what is this?' with a brief description of the app and a link to 'more' information.

Mac iPad iPhone Watch TV Music Support

App Store Preview

This app is available only on the App Store for iPhone.

**Mycons - Aesthetic App Icons** 4+

Personalize your Home Screen!  
Daniel McCarthy

#63 in Graphics & Design  
★★★★★ 4.0 • 8 Ratings

Free · Offers In-App Purchases

iPhone Screenshots

Create beautifully aesthetic app icons to customize your iOS 14 Home Screen!

Plus a marketplace to buy premium icon styles, to help make your Home Screen look like this...

Or this...

Or this...

So what is this?  
To put it simply, it's an app icon designer tool, to help you make your iOS 14 Home screen look beautiful with custom icons. Also, "Mycons" = "my icons"... get it??? Right... moving on...

How does it work? [more](#)

## Extra Credit Links

<https://developer.apple.com/design/human-interface-guidelines/ios/system-capabilities/widgets>

<https://developer.apple.com/design/human-interface-guidelines/ios/overview/mac-catalyst/>

### SHORTCUTS for iOS Links

<https://www.cnet.com/how-to/apple-iphone-shortcuts-app-ios-14-new-features-tricks-can-do-for-you-now/>

[Create a new personal automation - Apple Support](#)

[18 Best Shortcuts for Apple's iOS Shortcuts App](#)

[Everything you need to know about Shortcuts Automations in iOS 13.1 - AppleToolBox](#)

[13 Features of iOS 13: Shortcuts - Six Colors](#)

[iOS Shortcuts Ultimate Guide: Reviews, Examples, Libraries, Tutorials...](#)

[Building a Packing List App with Shortcuts and iOS 13 - YouTube](#)

[How to use NFC to control your home with iOS 13 iOS Shortcuts Ultimate Guide: Reviews, Examples, Libraries, Tutorials...](#)

[Shortcuts Archive - MacStories](#)

[Siri Shortcuts on iOS 13! Everything new in one video \[Stream\] - YouTube](#)

<https://www.matthewcassinelli.com/category/shortcuts/>

<https://www.matthewcassinelli.com/ios-13-siri-shortcuts-library/>