

# iOS 12

**iOS 12** is the twelfth major release of the iOS mobile operating system developed by Apple Inc. Aesthetically similar to its predecessor, iOS 11, it focuses less on new functions than on performance, quality improvements and security updates. Announced at the company's Worldwide Developers Conference on June 4, 2018, iOS 12 was released to the public on September 17, 2018.<sup>[3]</sup> It was succeeded for the iPhone and iPod Touch by iOS 13 on September 19, 2019 and for the iPad by iPadOS 13 on September 24, 2019.

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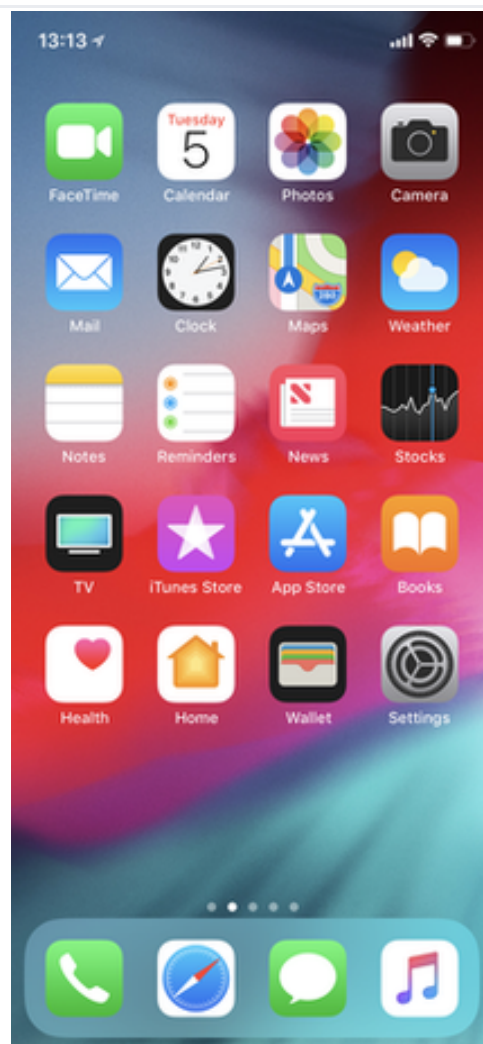
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### Supported devices

## iOS 12

A version of the iOS operating system

12



iOS 12 running on an iPhone X

<b>Developer</b>	<u>Apple Inc.</u>
<b>OS family</b>	<u>IOS</u>
<b>Source model</b>	<u>Closed</u> , with <u>open-source</u> components
<b>Initial release</b>	September 17, 2018
<b>Latest release</b>	12.4.8 <sup>[1]</sup> (16G201) <sup>[2]</sup> (July 15, 2020) <span>[±]</span> ( <span>http</span>

[iPhone](#)

[iPod Touch](#)

[iPad](#)

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## History

### Introduction and initial release

iOS 12 was introduced by [Craig Federighi](#) at the [Apple Worldwide Developers Conference](#) keynote address on June 4, 2018.<sup>[4]</sup> The first developer [beta version](#) was released after the keynote presentation,<sup>[5]</sup> with the first public beta released on June 25, 2018.<sup>[6]</sup> The initial release of version 12.0 was on September 17, 2018.

### Updates

[s://en.wikipedia.org/w/index.php?title=Template:Latest\\_stable\\_software\\_release/iOS\\_12&action=edit](s://en.wikipedia.org/w/index.php?title=Template:Latest_stable_software_release/iOS_12&action=edit))

**Marketing target** Phones and Tablets

**Update method** OTA, iTunes

**Platforms** **[iPhone](#)**  
[iPhone 5S](#)  
[iPhone 6/6 Plus](#)  
[iPhone 6S/6S Plus](#)  
[iPhone SE \(1st generation\)](#)  
[iPhone 7/7 Plus](#)  
[iPhone 8/8 Plus](#)  
[iPhone X](#)  
[iPhone XS/XS Max](#)  
[iPhone XR](#)

#### **[iPod Touch](#)**

[iPod Touch \(6th generation\)](#)  
[iPod Touch \(7th generation\)](#)

#### **[iPad](#)**

[iPad Air \(1st generation\)](#)  
[iPad Air 2](#)  
[iPad Air \(3rd generation\)](#)  
[iPad \(5th generation\)](#)  
[iPad \(6th generation\)](#)  
[iPad Mini 2](#)  
[iPad Mini 3](#)  
[iPad Mini 4](#)  
[iPad Mini \(5th generation\)](#)  
[iPad Pro \(12.9-inch 1st, 2nd, and 3rd generation\)](#)  
[iPad Pro \(9.7-inch\)](#)  
[iPad Pro \(10.5-inch\)](#)

Version	Release date	Notes
12.0	September 17, 2018	Initial release on the <u>iPhone XS</u> and <u>XS Max</u>
12.0.1	October 8, 2018 <sup>[7][8][9]</sup>	
12.1	October 30, 2018 <sup>[10][11][12]</sup>	
12.1.1	December 5, 2018 <sup>[13]</sup>	
12.1.2	December 20, 2018	
12.1.3	January 22, 2019 <sup>[14]</sup>	
12.1.4	February 7, 2019 <sup>[15][16]</sup>	
12.2	March 25, 2019 <sup>[17]</sup>	
12.3	May 13, 2019 <sup>[18]</sup>	
12.3.1	May 24, 2019	
12.3.2	June 10, 2019	Exclusive to <u>iPhone 8 Plus</u>
12.4	July 22, 2019 <sup>[19]</sup>	
12.4.1	August 26, 2019 <sup>[20]</sup>	
12.4.2	September 26, 2019 <sup>[21]</sup>	Exclusive to iOS devices that do not support iOS 13 and above ( <u>iPhone 5S</u> , <u>iPhone 6/6 Plus</u> , <u>iPad Air</u> , <u>iPad Mini 2</u> , <u>iPad Mini 3</u> and <u>iPod Touch (6th generation)</u> )
12.4.3	October 28, 2019 <sup>[22]</sup>	
12.4.4	December 10, 2019 <sup>[23]</sup>	
12.4.5	January 28, 2020 <sup>[24]</sup>	
12.4.6	March 24, 2020 <sup>[25]</sup>	
12.4.7	May 20, 2020 <sup>[26]</sup>	
<b>12.4.8</b>	July 15, 2020 <sup>[27]</sup>	

	<u>iPad Pro (11-inch 1st generation)</u>
<b>Kernel type</b>	<u>Hybrid (XNU)</u>
<b>License</b>	<u>Proprietary software</u> with open-source components
<b>Preceded by</b>	<u>iOS 11</u>
<b>Succeeded by</b>	<u>iOS 13</u> (for iPhone and iPod touch) <u>iPadOS 13</u> (for iPad)
<b>Official website</b>	<u>iOS 12 - Apple</u> ( <a href="https://web.archive.org/web/20190909033052/https://www.apple.com/ios/ios-12/">https://web.archive.org/web/20190909033052/https://www.apple.com/ios/ios-12/</a> ) at the <u>Wayback Machine</u> (archived September 9, 2019)
<b>Support status</b>	
Third party application support	

Legend:  Past  **Current**  Beta  See Tfd

## System features

## Performance

Performance optimizations were made in order to speed up common tasks across all supported iOS devices.<sup>[28]</sup> Tests done by Apple on an iPhone 6 Plus showed apps launching 40 percent faster, the system keyboard activating 50 percent faster, and the camera opening 70 percent faster.<sup>[29]</sup>

## Screen Time



The Screen Time usage information screen in iOS 12 on an iPhone X

Screen Time is a new feature in iOS 12 that records the amount of time a user spent on the device. The feature also displays the amount of time the user used particular apps,<sup>[30]</sup> the amount of time the user used particular categories of apps (such as games),<sup>[31]</sup> and the number of notifications the user received.<sup>[32]</sup>

Screen Time also provides blocking features to limit usage of apps (with time limits) or set other restrictions such as on purchases or explicit content. It replaces Restrictions in the iOS Settings app, but can also be used by adults to limit their own usage. These features can be used with or without a passcode. Without setting a passcode, the limits can easily be bypassed but may serve as a useful reminder of usage goals.<sup>[33]</sup>

## Shortcuts

A dedicated application in iOS 12 allows users to set up Shortcuts, automated actions that the user can ask Siri to perform.<sup>[31]</sup> Using the Shortcuts app, a user can create a phrase and type in the action they want Siri to do for them. Once they tell the phrase to Siri, Siri will automatically do the task they set for it in the Shortcuts app. The Shortcuts app replaces the Workflow app<sup>[34]</sup> that Apple acquired in March 2017.<sup>[35][36]</sup>

## ARKit 2

ARKit now allows users to share their view with other iOS 12-supported devices.<sup>[37]</sup> ARKit 2 additionally allows full 2D image tracking and incorporates the ability to detect 3D objects.<sup>[38]</sup>

## CarPlay

CarPlay can now run third-party navigation applications.<sup>[31]</sup> (Waze, Google Maps, etc.)

## iPad

The Voice Memos and Stocks apps are now available for iPads.<sup>[39]</sup>

Control Center is separated from the app switcher on iPad and can be opened with a swipe down on the top right corner. In addition, iPhone X-style gestures are introduced across all iPads running iOS 12.<sup>[40]</sup>

## Keyboard

In iOS 12, the trackpad mode (which allows the user to freely move the cursor) is enabled by long-pressing the space bar on devices without 3D Touch.<sup>[41]</sup>

## App Switcher

For devices with gesture navigation and no home button (iPhone X and later), users can now force quit applications by swiping up from the bottom of the screen (without having to press and hold on them when in the app switcher).<sup>[42]</sup>

## App features

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### Messages

Messages in iOS 12 introduces a new type of customizable Animoji called "Memoji" which allows a user to create a 3D character of themselves. Apple also introduced Koala, Tiger, Ghost and T-Rex Animojis.<sup>[43]</sup> In addition, Apple added new text and GIF effects similar to those found on other social media applications.

### FaceTime

FaceTime gains support for Animoji and Memoji, as well as new text and GIF effects similar to those found on other social media applications and in the Messages application.<sup>[29]</sup>

iOS 12.1, released on October 30, 2018, adds the ability to include up to 32 people in a FaceTime conversation. This feature is only supported with video by devices with the Apple A8X or Apple A9 chip or later; it is only supported for audio on iPhone 5S, iPhone 6, and iPhone 6 Plus, and is not available at all on iPad Mini 2, iPad Mini 3, and iPad Air.<sup>[44]</sup> Group FaceTime was disabled on January 28, 2019 due to a software bug that allowed calls to be answered by the caller rather than the recipient, allowing video and audio to be transmitted unless the call was declined.<sup>[45]</sup> The functionality was restored on February 7, 2019 with the release of iOS 12.1.4. Group FaceTime remains disabled on devices running iOS 12 that are affected by the bug.

### Measure

Measure is a native AR application that allows the user to take measurements of real objects. It also works as a level,<sup>[29]</sup> a feature that was originally packaged as part of the Compass app.<sup>[46]</sup>

### Photos

Apple Photos has been completely redesigned with four new tabs, including "Photos", "For You", "Albums", and "Search". The new "For You" tab replaces the "Memories" tab previously found in iOS 11 and makes sharing recommendations, creates short-length video collages, photo editing suggestions, as well as featured photos from a specific day.<sup>[29]</sup>

While the "Photos" and "Albums" tabs received only a few cosmetic changes, the "Search" tab includes new Artificial Intelligence and Machine Learning features which show the user photos by place and categories (e.g. animals, cars, objects).<sup>[47]</sup>

## Notifications

Notifications are now grouped by application and have a "manage" button to turn off notifications for that app or to deliver them quietly right from the Notification Center without having to go into the Settings application.<sup>[48]</sup>

## Do Not Disturb

Do Not Disturb gives users more options for automation. Users can hide notifications indefinitely or scheduled like previously, but can also hide notifications for 1 hour, until a time of day, until leaving a location, or until the end of a scheduled event in Calendar.<sup>[49]</sup>

## Voice Memos and Stocks

Voice Memos and Stocks are supported on iPad, and have a newer design. Stocks was integrated with Apple News to show financial and other related news.<sup>[50]</sup>

## Apple Books

iBooks was renamed Apple Books, and the app was redesigned, with five new tabs, including "Reading Now", "Library", "Book Store", "Audio Books", and "Search".<sup>[51]</sup> The new app design is similar to that of Apple Music, and has been praised for its simplicity in allowing users to easily navigate their book library.

## Safari

Safari receives an update to Intelligent Tracking Prevention. This includes a feature which allows the user to disable social media "like" and "share" buttons.<sup>[52]</sup>

## Maps

Apple Maps had started to be rebuilt from the ground up by relying on first-party map data instead of using map data provided by third parties. This allows for more accurate directions and predictions on the fastest routes.<sup>[53]</sup> The new maps were rolled out in sections and the entire US completed by the end of 2019.<sup>[54]</sup>

## Problems

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### Rainbow flag emoji

After a rainbow flag emoji with an interdictory sign over it appeared on Twitter, several users accused Apple of encouraging anti-LGBT attitudes. However, Emojipedia has clarified that this occurs when a user tweets the two emojis together and is not an intended feature. This can be used with other emojis as well.<sup>[55][56][57]</sup>

### FaceTime eavesdropping issue

Earlier in 2019 Apple acknowledged a widespread eavesdropping FaceTime issue impacting several versions of iOS 12 (versions 12.1–12.1.3) that allowed users to call someone via FaceTime and hear the audio coming from their phone before answering the call.<sup>[58]</sup> That bug was fixed in iOS 12.1.4.<sup>[15]</sup>

## Supported devices

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Any device that supports iOS 11 can be upgraded to iOS 12.<sup>[59]</sup> However, devices, such as the iPhone 5S, 6, 6 Plus and the iPod Touch (6th generation) all have limited support due to having an A7 or A8 chip and 1GB of RAM. These are the list of the devices that support iOS 12:

### iPhone

- iPhone 5S
- iPhone 6
- iPhone 6 Plus
- iPhone 6S
- iPhone 6S Plus
- iPhone SE (1st generation)
- iPhone 7
- iPhone 7 Plus
- iPhone 8
- iPhone 8 Plus
- iPhone X
- iPhone XS
- iPhone XS Max
- iPhone XR

### iPod Touch

- iPod Touch (6th generation)
- iPod Touch (7th generation)

### iPad

- iPad Air (1st generation)
- iPad Air 2
- iPad Air (3rd generation)
- iPad (5th generation)
- iPad (6th generation)
- iPad Mini 2
- iPad Mini 3
- iPad Mini 4
- iPad Mini (5th generation)
- iPad Pro (9.7-inch)
- iPad Pro (10.5-inch)
- iPad Pro (11-inch, 1st generation)
- iPad Pro (12.9-inch, 1st generation)
- iPad Pro (12.9-inch, 2nd generation)
- iPad Pro (12.9-inch, 3rd generation)

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## External links

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- [Official website](https://web.archive.org/web/20190910162202/https://www.apple.com/ios/ios-12/) (<https://web.archive.org/web/20190910162202/https://www.apple.com/ios/ios-12/>) at the [Wayback Machine](#) (archived September 10, 2019)
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