

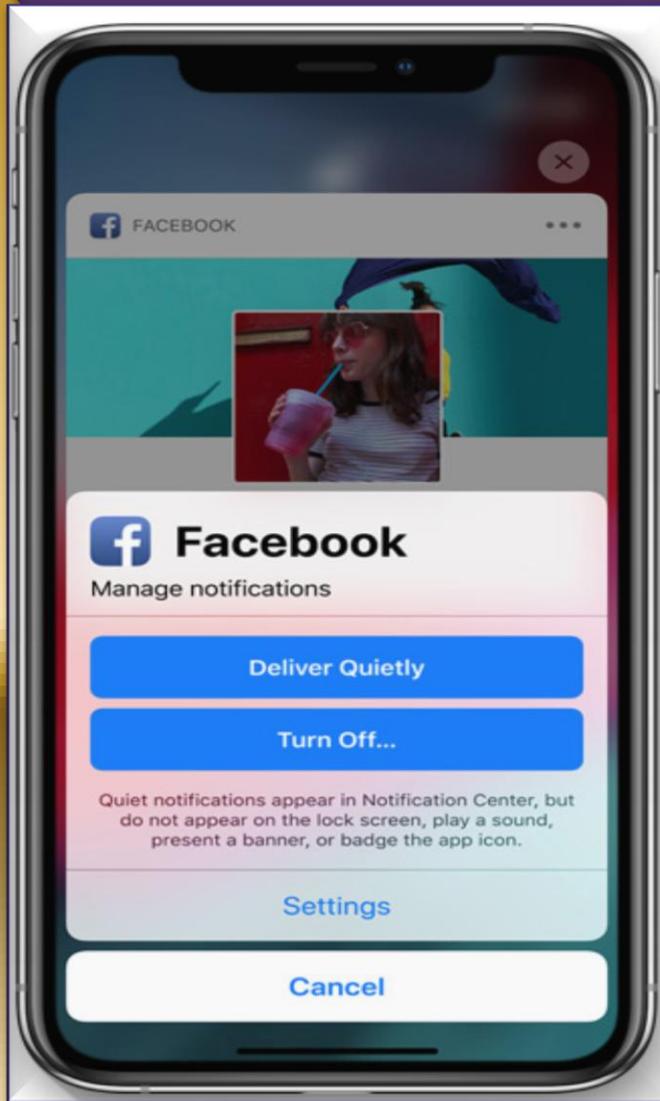


# *Apple iOS*

released  
*September 17,*  
2018

12

# Apple iOS



# *iOS 12* 1. Performance : *Faster and more responsive*

## **Smoother animations**

- Animations are smoother across the system. So when you do things like bring up Control Center, swipe while multitasking, or scroll in apps, it's more fluid and responsive.

## **Up to 40% faster app launch**

- Apps launch faster in day-to-day use. And when you're pushing your iOS device to the limit, multitasking between lots of apps, they launch up to 2x faster.

## **Up to 50% faster keyboard display**

- The keyboard appears faster and typing is more responsive

## **Up to 70% faster swipe to Camera**

- Swiping to Camera from the Lock screen happens faster so you never miss a moment

## **Up to 2x faster Share sheet display under load**

- The Share sheet appears faster than ever, especially if you have a lot of sharing extensions installed.

# ios 12 2. FaceTime

## Group FaceTime

- Make FaceTime calls with up to 32 people at once.

## FaceTime audio and video

- Answer incoming Group FaceTime calls with video or audio on iPhone, iPad, and Mac, or join with audio on Apple Watch and HomePod.

## Join anytime

- Join or add people to Group FaceTime at any time.

## Focus View in Group FaceTime

- During Group FaceTime, the speaker will automatically be front and center. Or with Focus View, you can double-tap the person you'd like to see

## Ringless notification

- Group FaceTime uses a silent notification that participants can tap to join

## Messages integration

- Start Group FaceTime right from a group Messages conversation. See and join active calls from the conversation list or in the conversation itself.

## Animoji

- Use FaceTime with your friends and family as your favorite Animoji or Memoji.

# *iOS 12* 2. *FaceTime more*

## Filters

- Transform your look using built-in filters, like classic black and white, comic book, and watercolor.

## Text effects

- Add text effects like speech bubbles and emoji to your photos or videos

## Shapes

- Jazz up your photos and videos with shapes like stars, hearts, and arrows.

## iMessage sticker packs

- Download sticker packs from the App Store for iMessage to enhance your photos and videos. Stickers track the movement of your face and move with you.

## Private end-to-end encryption

- FaceTime is encrypted end to end for both one-to-one and group calls, so your conversations remain private and viewable only by the participants.

# ios 12 3. Messages

## Memoji

- Create an all-new kind of Animoji that fits your personality and mood.

## Memoji Maker

- A new tool to select and adjust nearly endless customization options to make your Memoji.

## New Animoji

- Try four new Animoji: T. rex, ghost, koala, and tiger.

## Text effects

- Add text effects like speech bubbles and emoji to your photos or videos.

## Redesigned App Strip

- The redesigned App Strip now takes up less space when you type

## Shapes

- Jazz up your photos and videos with shapes like stars, hearts, and arrows.

## iMessage sticker packs

- Stickers track the movement of your face and move with you.

## Tongue and wink detection

- Improved face tracking now recognizes when you stick out your tongue or wink.

## Longer Animoji

- Now you can record clips of up to 30 seconds.

## Camera effects

- Use the camera in Messages to capture photos and enhance them in new ways using built-in effects and third-party sticker packs.

## Filters

- Transform your look using built-in filters, like classic black and white, comic book, and watercolor.

## Photos iMessage app

- Get photo suggestions based on who you're messaging with, what you're talking about, and where you've taken photos together.

# iOS 12 4. Screen Time

## Screen Time

- New tools empower you to understand and make choices about how much time you spend using apps and websites.

## App limits

- Set the amount of time you and your kids can spend each day on specific apps and websites.

## Activity reports

- Get reports weekly or check Today View anytime to see app usage, notifications, and device pickups.

## Downtime

- Set a specific time, like bedtime, when apps and notifications are blocked. You can choose which apps are on and off limits.

## For kids

- Use your family's Apple IDs to set up Screen Time for your kids to keep an eye on how much time they spend on apps and websites. They can request more time for you to approve.

## Always allowed

- Create exceptions for apps you'd like your kids to have access to even during Downtime, such as Messages or education apps.

# *iOS 12* 5. *Notifications*

## Grouped notifications

- Message threads and notification topics are grouped together, so it's easier to see what's important with just a glance at your iPhone or iPad.

## Siri notification suggestions

- Get suggestions based on how you interact with your notifications, such as which app notifications to deliver prominently and which ones to send to Notification Center.

## Instant Tuning

- Control your notification settings the moment you receive an alert, without having to leave what you're doing.

## Critical alerts

- A new type of opt-in alert for important information, like reports from a healthcare provider, which you'll receive even during Do Not Disturb.

## Deliver quietly

- Within Instant Tuning, you can choose to have notifications delivered silently to Notification Center by default so you're not interrupted by alerts.

## Tapback to messages

- Quickly reply to messages with an expression, like a heart or a thumbs-up, by touching and holding the notification.

# *iOS 12* 6. *Do Not Disturb*

## Do Not Disturb During Bedtime

- Dim your display and silence overnight notifications until you unlock your iPhone in the morning.

## New Do Not Disturb options

- Set Do Not Disturb to end automatically in an hour, at the end of the day, when you leave a certain location, or at the end of a meeting on your calendar.



# *iOS 12* 7. *Augmented Reality*

## Persistent and multiuser experiences

- AR experiences can now be shared across time and fixed to real-world locations, so you can create a piece of AR art that can be viewed later in the same place by someone else.

## 3D object recognition

- ARKit 2 recognizes objects and how your device is oriented to them, and can use that information to incorporate objects into AR experiences.

## Face tracking

- Face tracking now sees where you're looking and can detect whether you're sticking out your tongue or winking.

## Scene reflection

- AR is even more lifelike, enabling virtual objects to reflect the real-world scene in your camera.

## USDZ file format

- A new format that helps 3D creators to create rich content and animations optimized for mobile devices.

## AR Quick Look

- View AR experiences in the apps you use every day, including Files, Mail, Messages, and Safari.

## Measure app

- Draw straight lines to measure objects and surfaces both vertically and horizontally using your iPhone or iPad camera, and automatically detect dimensions of rectangular objects.

# iOS 12 8. Photos

## For You tab

- A single destination for your Memories, Shared Album activity, and the best moments in your library. Featured Photos and Effect Suggestions intelligently show you your best photos and propose effects to make them even better.

## Intelligent search suggestions

- Smart suggestions help you find photos even before you finish typing by suggesting events, people, places, and relative dates.

## Places search

- Search for photos based on the places or businesses where you were when you took them, whether it's a general category, like "Japanese restaurant," or a specific place, like "Jacques Torres Chocolate."

## Event search

- Search for photos from events you've attended, like the Aspen Ideas Festival.

## Multiple keyword search

- Now you can combine keywords in searches, like "surfing" and "vacation," for even better results.

## Sharing suggestions

- Photos understands when you've done something meaningful, like taking a trip or attending an event, and will suggest sharing the photos with the people who are in them. And if you receive photos from someone else, your device will look for photos in your library from the same event and suggest sharing photos back.

# iOS 12 8. Photos more

## Improved import

- It's easier than ever to import photos and videos from your professional camera on the go.

## RAW editing support

- You can now edit your RAW images in Photos on iPhone and iPad models with an A9 chip or later.

## Redesigned Albums tab

- Find existing and shared albums more quickly and efficiently.



# iOS 12 9. Camera

## Improved Portrait Lighting

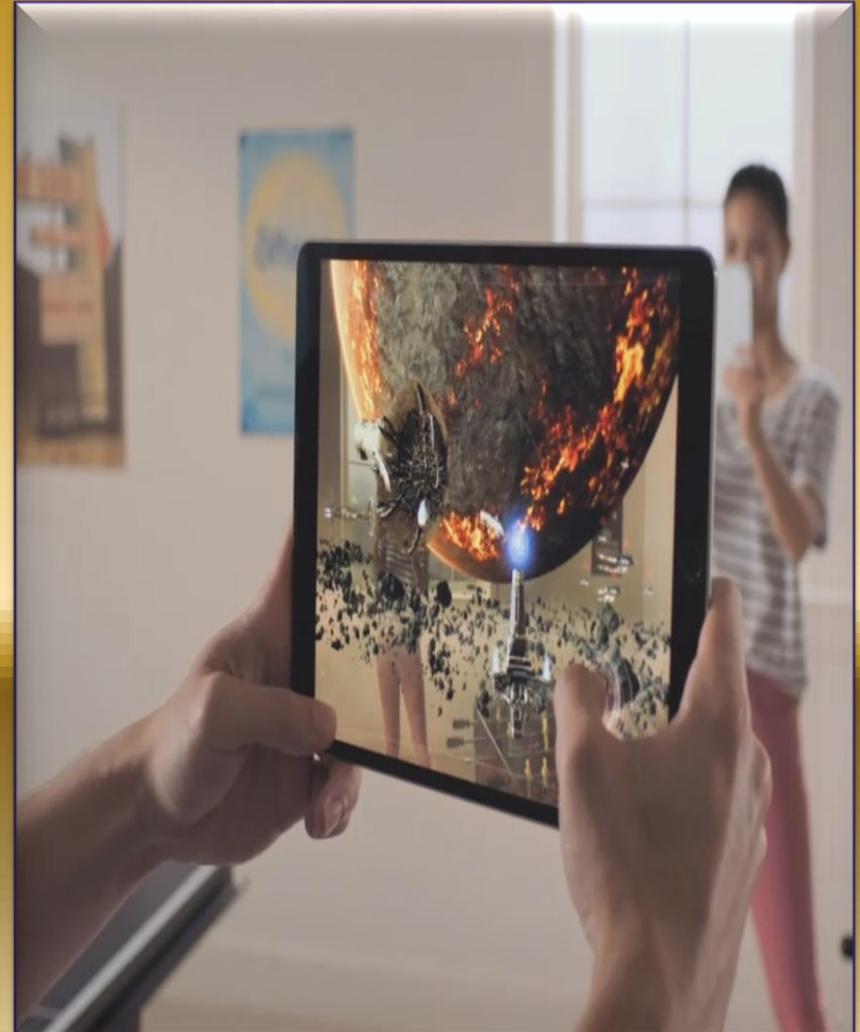
- Portrait mode photos are better than ever. Camera now generates a mask when it detects a person and intelligently and elegantly separates the person from the scene.

## Portrait Segmentation API

- A new API for third-party developers allows for the separation of layers in a photo, such as separating the background from the foreground.

## Improved QR code reader

- Camera now highlights QR codes in the frame, making them easier to scan.



# iOS 12 10. Siri

## Siri suggestions

- A quicker way to do the things you do most often. As Siri learns your routines, you'll get suggested shortcuts for just what you need, at just the right time, on the Lock screen or in search.

## Motorsports

- Get live standings, schedules, rosters, and stats for NASCAR and other racing series.

## Add to Siri

- Add shortcuts to Siri to run them with your voice on your iPhone, iPad, Apple Watch, or HomePod.

## Translation

- Translate phrases into many more languages, with support for over 50 language pairs.

## New Shortcuts app

- Create or customize your own shortcuts to run multiple steps at once. Get started with examples from the gallery and personalize with steps from across your apps

## Celebrity facts

- Check facts about celebrities, such as "Where was Amy Adams born?"

## Shortcuts API

- App developers can work with Siri to run shortcuts via a new SiriKit API.

Check facts about celebrities, such as "Where was Amy Adams born?"

- Ask Siri questions about food and get answers from the USDA database, including calories, vitamins, and how healthy a food is overall. For example, ask "How much caffeine is in coffee?" or "How much fiber is in kale?"

# iOS 12 10. Siri more

## Photos Memories search

- Use Siri to quickly pull up photos and memories based on people, places, events, time, and keywords of objects and scenes in the photos.

## Passwords

- Siri can help you search for any password.

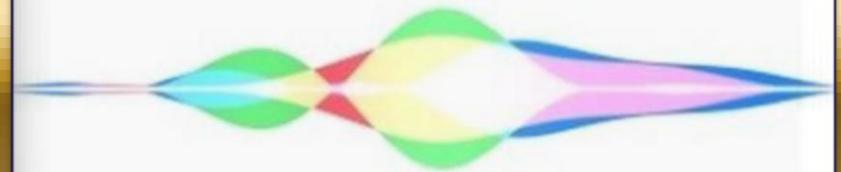
## Find My iPhone

- Ask Siri to help find your misplaced iPhone, iPad, or AirPods.

## Flashlight

- Ask Siri to turn the flashlight on and off.

"Hey, Siri"



# iOS 12 11. Privacy and Security

## Enhanced tracking prevention

- Improvements prevent Share buttons and comment widgets on web pages from tracking you without your permission in Safari. Safari also prevents advertisers from collecting your device's unique settings, so they can't retarget ads to you across the web.

## Password reuse auditing

- Passwords that have been reused will be flagged in the passwords list, so you can quickly navigate to the app or website and replace it with an automatically generated strong password

## Security code AutoFill

- SMS one-time passcodes will appear automatically as AutoFill suggestions, so you never have to worry about quickly memorizing them or typing them again.

## Automatic strong passwords

- Automatically create, autofill, and store strong passwords in Safari and iOS apps. Passwords are stored in iCloud Keychain and are available on all your Apple devices. And if you ever need to access your passwords, just ask Siri.

## Password sharing

- Easily share and receive passwords from nearby iOS devices, from an iOS device to a Mac, and from an iOS device to Apple TV.

## Password Manager API

- Access passwords stored in third-party password managers directly from the QuickType bar in apps and in Safari (requires third-party adoption).

# iOS 12 12. App Updates

## Apple Books

- Access your current book or start a new one in the Reading Now tab, visit the new Book Store to browse and buy, and organize your library with more flexible collections.

## Voice Memos

- Easier to capture your personal reminders, edit class lectures, or share family moments. And with iCloud, you can record on your iPhone or iPad and harness the power of your Mac to do even more.

## Apple News

- It's now easier to navigate your news feed. Swipe down to jump to your favorite topics and channels on iPhone or tap the sidebar on iPad.

## Stocks

- The redesigned Stocks app keeps you more informed about the market. View prices at a glance in the customizable watch list. Tap any ticker to see key details and an interactive chart. Learn about what's driving the market with business stories from Apple News.

## Apple Music

- Visit new artist pages, check out the daily top 100 songs around the world, see what your friends are listening to on Friends Mix, and search for songs by lyrics.

# *iOS 12 13. Even More*

## **CarPlay navigation**

- CarPlay now supports third-party navigation apps, giving drivers even more choices for a familiar experience on the dash while they drive.

## **More battery info**

- The battery usage chart in Settings now shows your usage for the last 24 hours or 10 days. Tap a bar to see your app use for that period of time.

## **Contactless student ID cards**

- With contactless student ID cards in Wallet, you can use your iPhone or Apple Watch anywhere student ID cards are used on and off campus. Simply hold your device near the reader to access places like your dorm, the library, and campus events. Or pay for laundry, snacks, and dinners around campus.

## **iPad gestures**

- iOS 12 for iPad includes updated gestures that make it easier to navigate. You can now go to the Home screen by quickly swiping up from the bottom of the screen. Get to Control Center more conveniently with a swipe from the top-right corner

# *iOS 12* **13.** *Even More etc*

## Keyboard

- Turn the QuickType keyboard into a trackpad on devices without 3D Touch by touching and holding the space bar.

## New dictionaries

- Enjoy three new language dictionaries: an Arabic and English bilingual dictionary, a Hindi and English bilingual dictionary, and a Hebrew dictionary.

## English Thesaurus

- Get synonyms and related concepts for words with English Thesaurus.

## New markup tools

- When you mark up a screenshot or PDF or draw in Notes, you can now choose from more colors, line weights, and opacities for each tool.

## Favicons in Safari on iPad

- View website favicons on tabs in Safari to identify your open tabs at a glance.

## Automatic software update

- A new option allows iOS software updates to be installed automatically, so you always have the latest. When you enable this setting, software updates will be installed overnight.