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Evolution of iOS

New iPhone? what's iOS? fourteen updates and counting!



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The **Apple iOS** (iPhone Operating System) greatly influences many app entrepreneurs, developers and companies. iOS is a core mobile operating system that powers all Apple products software from the iPad to the Apple TV, the system has been popularized due to its user friendly and progressive interface which can be accredited to the 14 innovative updates since 2007.

What is an iOS system?

The iOS system can be simply described as Apple's special programming that runs specific applications tailored to the software of their devices, meaning the iOS system allows for new **Apple only** applications and updates on their products. It is a core system that powers all devices from Apple iPhone, iPod, iPad, iWatch, Apple TV and Mac. iOS is widely known for its user-friendly intuitive interface. With iOS, users can easily download an app from the App Store, as the operating system runs flawlessly to make the apps run smoothly.

First iPhone and iOS 1

The first iPhone released in 2007, had Apple's first ever mobile operating system, this system was originally named iPhone OS and is not considered an iOS due to the difference in name, but can

be noted as the **blueprint** to all iOS systems after. The iPhone had ground-breaking features such as Visual Voicemail, Multi-Touch Screen, and Integration of iTunes were considered a revolutionary advancement too. The iPhone OS 1 was a major key factor in the iOS development history, the first iPhone lacked elements that would become an inherent part of the iOS operating system such as Photos, Calendar, Notes, Camera, Mail, support for third-party apps, and more. It offered a 3.5-in. screen, a 2-megapixel camera and won plaudits for the then-new multitouch features.

iPhone 3Gs and iOS 3

In 2009 the iOS 3 system was released alongside the iPhone 3GS, a new model came with massive updates and changes to iOS system which **defined Apple's iOS throughout the years**. The changes included new features; find my iPhone, spotlight search, support for MMS in the Messages app and the capability to record videos through the Camera application along with push notification functionality. The iOS update connected to **faster 3G**-based networks, included built-in GPS, and offered more storage for the phone. "Location services are going to be

a really big deal on the iPhone,” quoted from CEO Steve Jobs.

2010 launched the 1st generation of iPad’s which were supported by a slightly tweaked iOS3 system, **iOS3.2, to set a new UI (User Interface) template** and the creation of new app design for larger screens that were now available to the consumer, **skeuomorphism** (3D design concept of making items represented resemble their real-world counterparts e.g apple notes) were also introduced to the Apple world.

iPhone 4s and iOS 5

In 2011 we began to see the rise in popularity of ‘wireless’ and cloud features alongside the iOS 5 and iPhone 4s. 2011 marked the first launch of the iCloud which received overwhelming response from users, as the service allowed them to wirelessly sync their device with iTunes through Wi-Fi and connect wirelessly. Three key features that serve the significance of today’s iOS system were also introduced in 2011. The features are notification centre, iMessage and one of the first intelligent assistants to be utilised with smartphones, Siri. **Siri** is voice-control AI, that was introduced together with the announcement of iOS 5 updates available for iPhone 4.

References

Belenko, A., & Sklyarov, D. Evolution of iOS Data Protection and iPhone Forensics: from iPhone OS to iOS 5. Media. blackhat.com [Article]. Retrieved 9 October 2020, from http://media.blackhat.com/bh-ad-11/Belenko/bh-ad-11-Belenko-iOS_Data_Protection.pdf.

Engadget.com. 2020. Engadget Is Now A Part Of Verizon Media. [online] Available at: <https://www.engadget.com/2011-06-06-apples-ios-5-all-the-details.html> [Accessed 19 October 2020].

Kour, B. (2019). The Evolution of Apple iOS: From iOS 1 to iOS 13 [Blog]. Retrieved 5 October 2020, from <https://appinventiv.com/blog/ios-evolution-timeline/>.

It was a technological advancement that enabled iPhones to respond to users’ questions with smooth communication over both web and iOS. Siri absorbs and makes sense of what it’s been asked, then presents the user with results and actions. It utilises Google’s voice dictation capability that uploads the speech to the cloud, then it leads to a server somewhere that is connected to the processing work. Siri was introduced as an in-development project, and has gained as much popularity as the brand itself and is synonymous with the Apple iPhone.

iPhone 8 ,iphone X and iOS 11

Apple released the iOS 11 in 2017 with iPhone 8, 8plus and iPhone X, it had many new applications and updates that were created, iOS 11 had **three major updates:** iPad enhancements, augmented reality, and airplay 2. The application ‘Files’ has become the go-to for iPad users searching, organizing, and browsing files on their devices from Dropbox and iCloud Drive. ARKit evolved the iOS 11 system, it allowed app developers to introduce **AR** (Augmented Reality) to millions worldwide through the apple platform. Apple Pay was integrated into

Messages, making it easy for users to send money to their friends and access money online.

For as long as the apple brand is able to innovate their products there will always be a need for an update or new change in the iOS system to support the device, demands of consumers and the latest trend in technology. The iOS system has been around for 14years and does not seem to be going anywhere soon due to the system’s reputation, dedication, and ability to adapt for its audience.

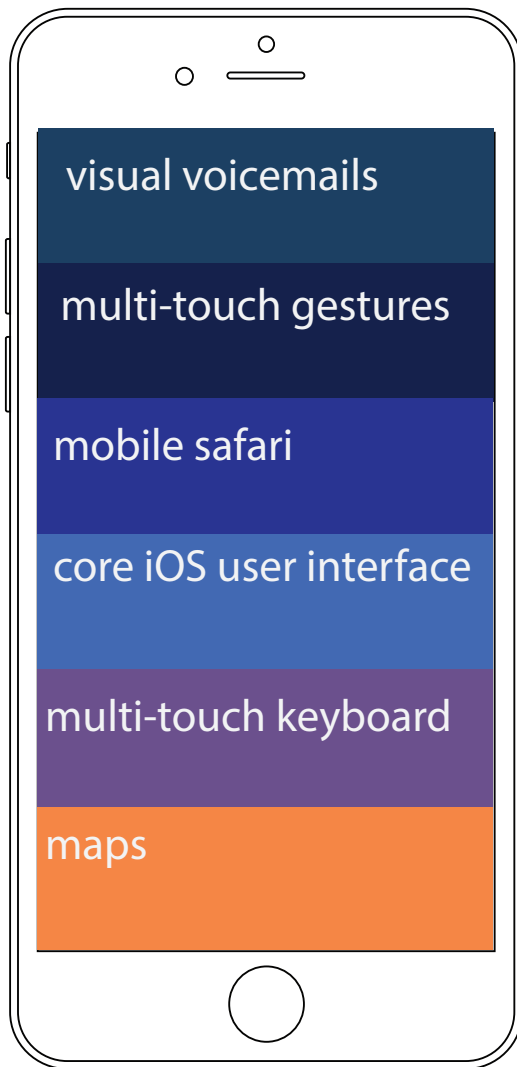


Moreau, S. (2018). The evolution of iOS. Computerworld [Article]. Retrieved 14 October 2020, from <https://www.computerworld.com/article/2975868/the-evolution-of-ios.html#slide3>.

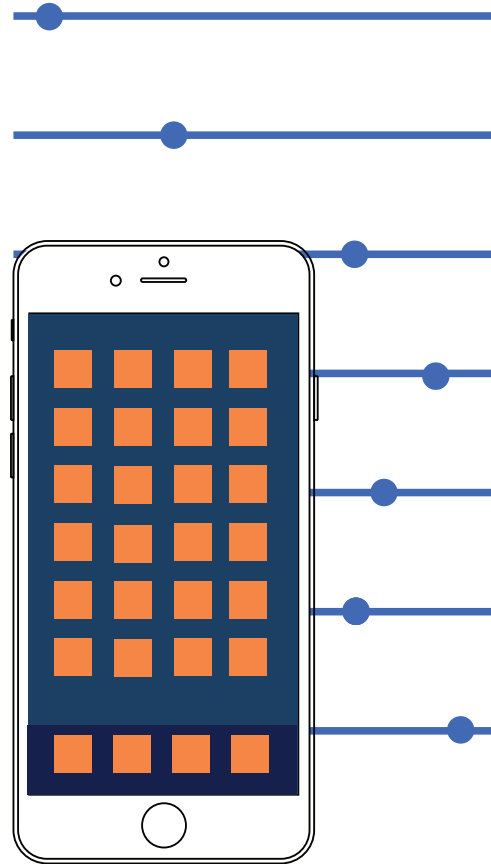
Phongtraychack, A., & Dolgaya, D. (2018). Evolution of Mobile Applications. EDPSciences.com [Article]. Retrieved 9 October 2020, from https://www.matec-conferences.org/articles/mateconf/abs/2018/14/mateconf_imet2018_01027/mateconf_imet2018_01027.html.

The Verge. 2020. Ios 5 Includes Siri 'Intelligent Assistant' Voice-Control, Dictation -- For Iphone 4S Only. [online] Available at: <https://www.theverge.com/2011/10/4/2515703/ios-5-assistant-voice-control-ai-features> [Accessed 19 October

OS 1vs iOS 14



2010 model

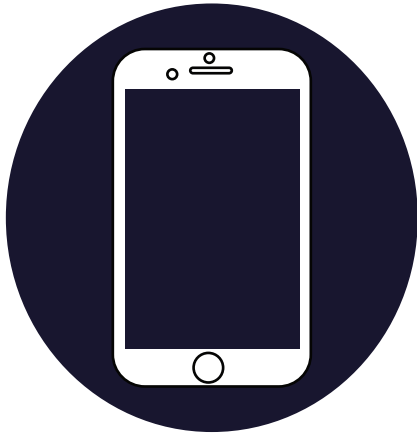


2020 model

- Augmented reality
- Face id
- Apple music, Apple Pay
- Customisable widget designs

2020].

The Verge. 2020. Ios: A Visual History. [online] Available at: <https://www.theverge.com/2011/12/13/2612736/ios-history-iphone-ipad> [Accessed 19



iOS 5 and introduction to Siri

2011, iPhone 5S

- First introduction to Siri, iCloud, iMessage, and Notification Center
- Siri 'intelligent assistant' voice-control, dictation
- Instant access to the camera right from the lock screen



The Use of Siri

- Holding long press the home button to activate

Siri is voice-control AI together with the announcement of iOS 5 updates available for iPhone 4. Replacing Voice Control with a virtual assistant now allowed iPhones to respond to users' questions in iOS at a beta stage.

Siri is a technological advancement that enabled iPhones to respond to users' questions with smooth communication over both web and iOS. Siri absorbs and makes sense of what it's been asked, then presents the user with results and actions. It utilises Google's voice dictation capability that uploads the speech to the cloud, then it leads to a server somewhere that is connected to the processing work. Siri was introduced as an in-development project, and has gained as much popularity as the brand itself and is synonymous with the Apple iPhone.

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