the **Operating System**



A Quick Guide

(mainly Apple iOS)

Introductory Level

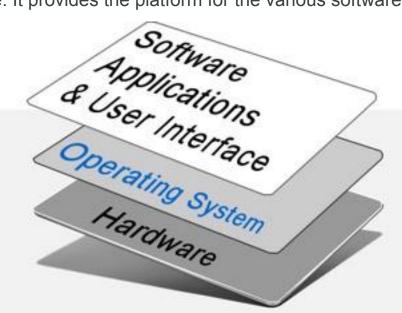
Designed for iPad. Applicable to other devices.

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Revised December 2016

OS - Operating System

An **Operating System (OS)** is software that controls the hardware on behalf of the end user. The end user interacts with the computer through software applications designed to run on that particular operating system. The OS manages all of the computer's hardware and software that runs on it. It coordinates access to the central processing unit (CPU), memory and storage. It provides the platform for the various software applications that the user needs to use.



Yes, the **Apple iPad** is a miniaturised computer, and the i**OS** operating system (currently iOS 10) has been designed by Apple to provide all of the services required of an Operating System at this scale. Software developers build software applications (**apps**) to run on this platform. An **app** built to run on iOS will not run on another OS (such as Android) unless it has been programmed to do so. Apple's iOS will not normally run on another platform.

3

Microsoft

Roughly speaking, the **Windows Surface** and **Surface Pro** tablet computers run Windows 8, 8.1 and **Windows 10** (the same for Windows desktop and laptop computers). Windows is the OS.

Linux

Based on the UNIX Operating System, the many versions of Linux can be seen everywhere, from most of the world's web-servers, to most hand held smartphones running the Google Android OS. Mint is a popular Linux OS based on Ubuntu. Even NASA uses Linux in robotics on the Mars rover and elsewhere.



Depending on the hardware platform, a number of different Operating Systems are in use these days for both desktop and mobile computers (smartphones, tablets and so forth)

All versions of the iPad, iPhone and iPod Touch run iOS

(which until 2010 was called 'iPhone OS'). The current version

Operating Systems

... in general

Apple

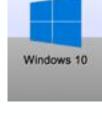
In recent years Apple has been releasing a new version of OS X generally once every year (since about the year 2000). Now the current version is macOS Sierra. OS X (renamed macOS in 2016) runs on desktop Apple computers.

is iOS 10 (released around September 2016).

macOS Sierra







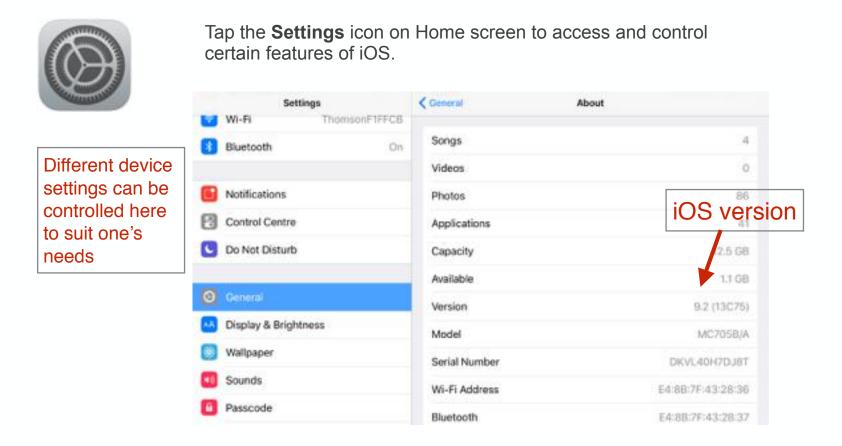




Access to iOS

Controlling IOS

iOS on the iPad, iPhone and iPod Touch. With iOS, like other mobile device Operating Systems, a person can access and control certain functions of the OS through **Settings**. Certain things such as Software Updates, Accessibility, File Storage, Security, Keyboard, Date & Time can all be customised through the **Settings** app under **General**.



The View from Above

Graphical User Interface GUI

iOS provides a GUI interface (as opposed to command line) and is designed to be as user friendly as possible. Almost everything about the OS is designed with the end user in mind because the end user cannot speak computer language. Touch icons provide access to apps and their features. Most actions can be initiated by the use of touch. iOS can interpret various touch signals and carry out the desired action on behalf of the user,



Home Screen on an iPad 3 with iOS 9 showing touch icons and the dock (bottom)

iOS Apps ... some important apps integrated into iOS

Settings

For directly accessing and changing basic configuration information of apps on Apple mobile devices (including both Apple and third party Apps)

Appstore

Mainly for purchasing and installing apps. Also, for managing **iTunes** credit and account information, as well as **Software Updates** for individual apps.

Mail

Email client. Send and receive email and manage Mail accounts.

Photos

For managing photos, both from the inbuilt **Camera** app and those imported from **iCloud** or elsewhere.

Safari

Web browser for accessing and viewing web pages, saving and sharing content etc.

For more detailed information about apps on iOS, please see the tutorial 'iPad Apps'









OS - Summary

- * Operating System (OS) software that controls the computer hardware for the end user
- * Provides the platform for various software applications (**apps**) on the computer/device
- * All versions of the iPad, iPhone and iPod Touch run iOS (created by Apple)
- * Mac OS X (macOS as of 2016) runs on Apple iMac (desktop) and MacBook (laptop) computers
- * The Google **Android OS** runs on most non Apple smartphones and tablets
- * One can access and control certain functions of the OS through **Settings**
- * Graphical User Interface (GUI) provides the user with familiar functions and navigation

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