



Mac OS 11.x Big Sur

Introduction:

+ Big Sur 11.x is the latest Macintosh operating system from Apple.

+ Previous Systems:

- + OSX 10.5 Leopard
- + OSX 10.6 Snow Leopard
- + OSX 10.7 Lion
- + OSX 10.8 Mountain Lion
- + OS X 10.9 Mavericks
- + OS X 10.10 Yosemite
- + OSX 10. 11 El Capitan
- + Mac OS 10.12 Sierra
- + Mac OS 10.13 High Sierra
- + Mac OS 10.14 Mojave
- + Mac OS 10.15 Catalina

Introduction:

- + Yosemite, Mavericks, and El Capitan, Sierra, High Sierra, Mojave, Catalina, and now Big Sur are using locations instead of Big Cat Names
- + Unlike 10.8 and before; THIS ONE IS FREE!
- + Big Sur is a major upgrade to the Mac OS. Note that the version number is now 11. The last update to Big Sur is 11.1 breaking the older convention of 10.x.y where y is the update with major upgrade (usually yearly) increments of .x .

Introduction:

- + Big Sur is the first system to support the new Apple M1 single system on a chip based Mac computers. Note that you cannot install any of the previous systems on a M1 mac computer.
- + Normally one would expect to have to get new programs to run on the M1 mac. This is handled by Rosetta 2 in Big Sur. More on this later in the presentation.

Requirements:

- + Models supported: (Changes from Catalina)
 - + iMac (Late 2014 or newer)
 - + MacBook (Early 2015 or newer)
 - + MacBook Pro (Mid 2013 or newer)
 - + MacBook Air (Mid 2014 or newer)
 - + Mac mini (late 2014 or newer)
 - + Mac Pro (Late 2013 or newer)
- + 4GB RAM memory (not enough) , at least 35.5 GB (44.5 GB if upgrading from El Capitan or earlier) available Hard drive space

Upgrading:

- + A common question is can you upgrade from versions before the last one OS X 10.15 Catalina? Yes with a couple of caveats:
 - + Apple says you now must be running at least 10.9 to upgrade (any supported machines shipped with 10.8 or higher)
 - + If you have OS X 10.8 Mountain Lion, upgrade to OS X 10.11 El Capitan first.

Upgrading (cont'd):

- + Check to make sure that your software, especially third party software (non Apple) will work in Mac OS 11.x Big Sur
 - + Check Vendors websites. A good resource is [Http://www.roaringapps.com](http://www.roaringapps.com) Note a downside is that some software has not had user input on them or they don't specify versions.
- + You have not been able to run PPC apps since OSX 10.6
- + Check your printer. May need Vendor driver, Catalina driver, Airprint, Gutenprint, or may not be supported at all.
- + See issue with 32 Bit Apps! Next slide.

Catalina 64 Bit Apps only!:

- + If you were using OSX 10.13.4 High Sierra or OSX 10.14 Mojave you should have seen pop up messages saying the 32 bit app you just launched was not optimized for the Mac and needs to be updated.
- + If you were running OS 10.15 Catalina, none of your 32 Bit apps worked, so presumably you found replacement 64 bit apps.
- + There are third party apps like Go64 that list the 32 bit apps that are on your computer.

Tips:

- + Have a least one, preferably more Backups before updating!
- + Power off and remove external Hard drives before installation.
 - + Hard drives have been messed up, and external Hard drives could hang up installation process. It happened to me on OSX 10.8
- + It is a big download ~ 12.18+ GB! It will take awhile.
- + The post download installation will take some time too

Tips (cont'd):

- + Clicking on the Install button will force a restart
- + There might be more restarts:
- + You may see additional updates after you install Catalina.
- + You will be asked will you want to use SIRI (pre Sierra upgrade), and about Optimized storage(pre Sierra upgrade), and possibly have you sign into iCloud.

Why Upgrade?

- + To Use and enjoy the new features in MacOS 11.x! Have the “latest and greatest!”
- + However I know many have strong opinions on not upgrading
 - + “If its not broken don’t change”
 - + But the issue is the rest of the industry does change and fast
 - + Yes you still can drive a 1950’s car today, but something like a Mac Plus is more like a Roman Ox cart!
- + TurboTax 2019 will require 10.14 Mojave
- + Photoshop will require 10.14 Mojave
- + Microsoft Office 2019 will require 10.14 Mojave for new updates
- + iMovie requires Catalina 10.15.6 or later.

Why Upgrade? (cont'd)

- + Security
- + Apple is only supplying current updates for the following OS's:
 - + 10.14 Mojave
 - + 10.15 Catalina

When to Upgrade?

- + Question is hard to answer.
- + Software can't be perfect out of the gate.
 - + If you wait till 11.1 or better 11.2 version a lot of large bugs are fixed
 - + Ideally all third party software vendors would have updates ready to go with the release date of a new Mac OS.
 - + However big vendors can run into issues of bureaucracy etc.
 - + Small vendors (1 or few persons) may have too much work to finish on time.
- + But if you have more than one Mac, select one for the upgrade, then evaluate upgrading the rest.

What's New? - Introduction

- + New:
 - + Visual Appearance
 - + M1 Processor Support and Rosetta 2
 - + Control Center
- + Changed
 - + Safari
 - + Messages
 - + Notifications
 - + Time Machine

New Features- Visual

- + While the look of the OS did change during Mac OS 10 evolution; Big Sur 11.x definitely has a new look
 - + New Icon Shape
 - + Transparent Layers
 - + Bigger Icons in the Login Window.
 - + Translucent menu bar
 - + Removal of Title Bar in Windows
- + Demo

New Features- M1 Support

- + As stated in slide 4 this is the first system that supports the M1 chip (More properly Apple Silicon)
- + The following applications are and will exist for the Mac:
 - + Existing Intel Based Applications
 - + Universal Applications that will be optimized to work either on Intel or M1 Apple computers. Contains code for both
 - + M1 (and successors) only applications (no intel support)
 - + Unlikely to show up on Mainstream applications in the near future
- + The M1 will not work with Intel coded Apps directly

New Features- M1 Support (cont'd)

- + To handle Intel coded Apps on the M1, Apple has introduced Rosetta 2.
- + Rosetta 2 enables a Mac with Apple silicon to use apps built for a Mac with an Intel processor.
- + You will be asked to install Rosetta 2 the first time you try to open an Intel App

New Features- Control Center

- + iOS inspired feature that provides access to common controls.
- + Sliders for Display Brightness and Sound Volume
- + Turn do not disturb Off or On
- + Screen Mirroring
- + WiFi, Bluetooth, and Airdrop controls
- + Now Playing (Audio or Video) limited controls
- + Demo

Some Application Changes:

- + Safari 14:
 - + Translate to English
 - + Privacy Report on Websites
 - + No Flash Support
 - + Many Others
- + Messages Overhauled
- + Notifications now grouped by App. Click on the clock on the menubar to access notifications. (demo)
- + Other Apps changed no time to go through them here

Some Application Changes

+ Time Machine:

- + Now supports APFS formatted external backup drives
- + Arstechnica Website found substantial decrease in backup times for APFS. Like 8 minutes down to 2 Minutes for continuing backups
- + One downside is that you can't convert your backup time machine drive to APFS format and still retain old backups. You can continue to use the drive as HFS+ format, but it will be slower.

Additional Comments:

- + Two very common questions about “where did it go?” are repeatedly being asked on Apples discussion boards
- + Battery Percentage: The numeric percentage value is no longer on by default on the battery icon in the menu bar on laptop Macs. You can see it by mousing over the icon.
 - + Go to System Preferences> Dock and Menu Bar. Scroll down on left side and under the other listings chose battery. Click the show percentage checkbox.
- + Mail: Trash and Junk Folders not listed under Favorites. Mouse over Favorites on the left sidebar and click on the + button. You will be given a choice of what to add. Choose the items and click OK
- + DEMO

Final Comments

- + Looks to me to be a Major Update. Windows title font size is small but readable on the 11 Macbook air I have. Did not run into too many problems on my Macbook Air. This machine had few third party apps added. The proof will be on my new iMac, I'll be expecting issues with Migration Assistant bring 10 years worth of stuff over.
- + The most comprehensive review I've found is from Arstechnica.
- + <https://arstechnica.com/gadgets/2020/11/macOS-11-0-big-sur-the-ars-technica-review/>

Appendix:

- + Catalina OS X 10.15 Requirements:

- + Models Supported

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