

macOS Mojave

macOS Mojave (/moʊˈhɑːvi, mə-moʊ-haɪ-ve/ *mo-HAH-vee*) (version 10.14) is the fifteenth major release of macOS, Apple Inc.'s desktop operating system for Macintosh computers. Mojave was announced at Apple's Worldwide Developers Conference on June 4, 2018, and was released to the public on September 24, 2018. The operating system's name refers to the Mojave Desert and is part of a series of California-themed names that began with OS X Mavericks.^[3] It succeeded macOS High Sierra and was followed by macOS Catalina.

macOS Mojave brings several iOS apps to the desktop operating system, including Apple News, Voice Memos, and Home. It also includes a much more comprehensive "dark mode", and is the final version of macOS to support 32-bit application software.^{[4][5]}

Mojave was well received and was supplemented by point releases after launch.

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macOS 10.14 Mojave

A version of the macOS operating system

macOS Mojave



The macOS Mojave desktop, showing the Dark Mode interface and the Stocks and Voice Memos applications ported from iOS

Developer	<u>Apple Inc.</u>
OS family	<u>Macintosh</u> · <u>Unix</u>
Source model	<u>Closed</u> , with <u>open source</u> components
Initial release	September 24, 2018 ^[1]
Latest release	10.14.6 Security Update 2020-004 ^[2] (18G6020) (July 15, 2020) [±] (https://en.wikipedia.org/w/index.php?title=Template:Latest_stable_software_release/macOS_Mojave&action=edit)
Update method	<u>Software Update</u>
Platforms	x86-64
Kernel type	<u>Hybrid</u> (XNU)
License	<u>APSL</u> and <u>Apple EULA</u>
Preceded by	<u>macOS 10.13 High Sierra</u>
Succeeded by	<u>macOS 10.15 Catalina</u>
Official website	https://www.apple.com/macos/mojave/ (https://web.archive.org/web/20190901002230/https://www.apple.com/macos/mojave/) at the <u>Wayback Machine</u> (archived September 1, 2019)
Support status	
	Supported

Overview

macOS Mojave was announced on June 4, 2018, at Apple's annual [Worldwide Developers Conference](#) in [San Jose, California](#).^{[1][6][7]} Apple pitched Mojave, named after [the California desert](#), as adding "pro" features that would benefit all users. The developer preview of the operating system was released for developers the same day,^[7] followed by a [public beta](#) on June 26.^[8] The retail version of 10.14 was released on September 24.^[9] It was followed by several point updates and supplemental updates. The most recent security update was on March 24, 2020.^{[10][11]}

System requirements

Mojave requires a [GPU](#) that supports [Metal](#), and the list of compatible systems is more restrictive than the previous version, [macOS High Sierra](#).^[12] Compatible models are the following Macintosh computers running [OS X Mountain Lion](#) or later:^[13]

- [MacBook](#): Early 2015 or newer
- [MacBook Air](#): Mid 2012 or newer
- [MacBook Pro](#): Mid 2012 or newer, [Retina display](#) not needed
- [Mac Mini](#): Late 2012 or newer
- [iMac](#): Late 2012 or newer
- [iMac Pro](#)
- [Mac Pro](#): Late 2013 or newer; Mid 2010 or Mid 2012 models require a [Metal-capable GPU](#)^[14]

macOS Mojave requires at least 2 GB of RAM as well as 12.5 GB of available disk space to upgrade from [OS X El Capitan](#), [macOS Sierra](#), or [macOS High Sierra](#), or 18.5 GB of disk space to upgrade from [OS X Yosemite](#) and earlier releases. Some features are not available on all compatible models.^[15]

Changes

System updates

macOS Mojave deprecates support for several legacy features of the OS. The graphics frameworks [OpenGL](#) and [OpenCL](#) are still supported by the operating system, but will no longer be maintained; developers are encouraged to use Apple's [Metal](#) library instead.^[16]

[OpenGL](#) is a cross-platform graphics framework designed to support a wide range of processors. Apple chose [OpenGL](#) in the late 1990s to build support for software graphics rendering into the Mac, after abandoning [QuickDraw 3D](#). At the time, moving to [OpenGL](#) allowed Apple to take advantage of existing libraries that enabled hardware acceleration on a variety of different GPUs. As time went on, Apple has shifted its efforts towards building its hardware platforms for mobile and desktop use. [Metal](#) makes use of the homogenized hardware by abandoning the abstraction layer and running on the "bare metal". [Metal](#) reduces CPU load, shifting more tasks to the GPU. It reduces driver overhead and improves multithreading, allowing every CPU thread to send commands to the GPU.^[17]

macOS does not natively support [Vulkan](#), the Khronos group's official successor to OpenGL. The [MoltenVK](#) library can be used as a bridge, translating most of the Vulkan 1.0 API into the Metal API.^{[18][19]}

Continuing the process started in [macOS High Sierra](#) (10.13), which issued warnings about compatibility with 32-bit applications, Mojave issues warnings when opening 32-bit apps that they will not be supported in future updates. In macOS Mojave 10.14, this alert appears once every 30 days when launching the app, as macOS 10.15 will not support 32-bit applications.^[5]

When Mojave is installed, it will convert [solid-state drives](#) (SSDs), [hard disk drives](#) (HDDs), and [Fusion Drives](#), from [HFS Plus](#) to [APFS](#). On Fusion Drives using APFS, files will be moved to the SSD based on the file's frequency of use and its SSD performance profile. APFS will also store all metadata for a Fusion Drive's file system on the SSD.^[20]




New data protections require applications to get permission from the user before using the Mac camera and microphone or accessing system data like user [Mail](#) history and [Messages](#) database.^[21]

Removed features




Mojave removes integration with [Facebook](#), [Twitter](#), [Vimeo](#), and [Flickr](#), which was added in [OS X Mountain Lion](#).^[22]

The only supported Nvidia graphics cards are the Quadro K5000 and GeForce GTX 680 Mac Edition.^{[23][24]}

Applications

Mojave features changes to existing applications as well as new ones. [Finder](#) now has [metadata](#) preview accessed via View > Show Preview, and many other updates,^[25] including a Gallery View (replacing Cover Flow) that lets users browse through files visually.^[26] After a [screenshot](#) is taken, as with [iOS](#), the image appears in the corner of the display. The screenshot software can now record video, choose where to save files, and be opened via  Shift +  Command + .^[27]

[Safari](#)'s Tracking Prevention features now prevent social media "Like" or "Share" buttons and comment widgets from tracking users without permission. The browser also sends less information to web servers about the user's system, reducing the chance of being tracked based on system configuration.^[28] It can also automatically create, autofill, and store strong passwords when users create new [online accounts](#); it also flags reused passwords so users can change them.^[29]

A new Screenshot app was added to macOS Mojave to replace the Grab app. Screenshot can capture a selected area, window or the entire screen as well as screen record a selected area or the entire display. The Screenshot app is located in the `/Applications/Utilities/` folder, as was the Grab app. Screenshot can also be accessed by pressing  Shift +  Command + .

FaceTime

macOS 10.14.1, released on October 30, 2018, adds Group [FaceTime](#), which lets users chat with up to 32 people at the same time, using video or audio from an iPhone, iPad or Mac, or audio from Apple Watch. Participants can join in mid-conversation.^[30]

App Store

The Mac App Store was rewritten from the ground up and features a new interface and editorial content, similar to the iOS App Store. A new 'Discover' tab highlights new and updated apps; Create, Work, Play and Develop tabs help users find apps for a specific project or purpose.^[31]

iOS apps ported to macOS

Four new apps (News, Stocks, Voice Memos and Home) are ported to macOS Mojave from iOS, with Apple implementing a subset of UIKit on the desktop OS.^[32] Third-party developers would be able to port iOS applications to macOS in 2019.^[33]

With Home, Mac users can control their HomeKit-enabled accessories to do things like turn lights off and on or adjust thermostat settings. Voice Memos lets users record audio (e.g., personal notes, lectures, meetings, interviews, or song ideas), and access them from iPhone, iPad or Mac. Stocks delivers curated market news alongside a personalized watchlist, with quotes and charts.^[34]

User interface

Dark mode and accent colors

Mojave introduces "Dark Mode", a Light-on-dark color scheme that darkens the user interface to make content stand out while the interface recedes.^[35] Users can choose dark or light mode when installing Mojave, or any time thereafter from System Preferences.^[36]

Apple's built-in apps support Dark Mode.^[36] App developers can implement Dark mode in their apps via a public API.^[37]

A limited dark mode that affected only the Dock, menu bar, and drop-down menus was previously introduced in OS X Yosemite.^[4]

Desktop

Stacks, a feature introduced in Mac OS X Leopard, now lets users group desktop files into groups based on file attributes such as file kind, date last opened, date modified, date created, name and tags.^{[26][27]} This is accessed via View > Use Stacks.^[25]

macOS Mojave features a new Dynamic Desktop that automatically changes specially made desktop backgrounds (two of which are included)^[38] to match the time of day.^[39]

Dock

The Dock has a space for recently used apps that have not previously been added to the Dock.^[25]

Preferences

macOS update functionality has been moved back to System Preferences from the Mac App Store.^{[25][40]} In OS X Mountain Lion (10.8), system and app updates moved to the App Store from Software Update.^[41]

Reception

Mojave was generally well received by technology journalists and the press. *The Verge*'s Jacob Kastrenakes considered Mojave a relatively minor update,^[42] but Kastrenakes and Jason Snell thought the release hinted at the future direction of macOS.^[43] In contrast, *Ars Technica*'s Andrew Cunningham felt that "Mojave feels, if not totally transformative, at least more *consequential* than the last few macOS releases have felt." Cunningham highlighted productivity improvements and continued work on macOS's foundation.^[44]

TechCrunch's Brian Heater dubbed Mojave "arguably the most focused macOS release in recent memory", playing an important role in reassuring professional users that it was still committed to them.^[45]

Mojave's new features were generally praised. Critics welcomed the addition of Dark Mode.^{[46][47][36][48]}

Release history

	Previous release		Current release
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Version	Build	Date	Darwin	Release Notes	Standalone download
10.14	18A391	September 24, 2018	18.0.0	Original Mac App Store release About the security content of macOS Mojave 10.14 (https://support.apple.com/HT209139)	N/A
10.14.1	18B75	October 30, 2018	18.2.0 xnu-4903.221.2~2	About the macOS Mojave 10.14.1 Update (https://support.apple.com/HT209149#macos10141) About the security content of macOS Mojave 10.14.1 (https://support.apple.com/HT209193)	macOS Mojave 10.14.1 Update (https://support.apple.com/kb/DL1981)
	18B2107	October 30, 2018		Added support for the new Vega GPUs in the MacBook Pro and MacBook Air	
	18B3094				
10.14.2	18C54	December 5, 2018	18.2.0 xnu-4903.231.4~2	About the macOS Mojave 10.14.2 Update (https://support.apple.com/HT209149#macos10142) About the security content of macOS Mojave 10.14.2 (https://support.apple.com/HT209341)	macOS Mojave 10.14.2 Update (https://support.apple.com/kb/dl1986) macOS Mojave 10.14.2 Combo Update (https://support.apple.com/kb/dl1987)
10.14.3	18D42	January 22, 2019	18.2.0 xnu-4903.241.1~4	About the macOS Mojave 10.14.3 Update (https://support.apple.com/HT209149#macos10143) About the security content of macOS Mojave 10.14.3 (https://support.apple.com/HT209446)	macOS Mojave 10.14.3 Update (https://support.apple.com/kb/DL1991) macOS Mojave 10.14.3 Combo Update (https://support.apple.com/kb/DL1992)
	18D43	January 25, 2019			
	18D109	February 7, 2019		About the security content of macOS Mojave 10.14.3 Supplemental Update (https://support.apple.com/HT209521)	macOS Mojave 10.14.3 Supplemental Update (https://support.apple.com/kb/DL1993)
10.14.4	18E226	March 25, 2019	18.5.0 xnu-4903.251.3~3	About the macOS Mojave 10.14.4 Update (https://support.apple.com/HT209149#macos10144) About the security content of macOS Mojave 10.14.4 (https://support.apple.com/HT209600)	macOS Mojave 10.14.4 Update (https://support.apple.com/kb/DL1994) macOS Mojave 10.14.4 Combo Update (https://support.apple.com/kb/DL1996)
	18E227				
10.14.5	18F132	May 13, 2019	18.6.0 xnu-4903.261.4~2	About the macOS Mojave 10.14.5 Update (https://support.apple.com/HT209600)	macOS Mojave 10.14.5 Update

				ppport.apple.com/HT209149#macos10145 About the security content of macOS Mojave 10.14.5 (https://support.apple.com/HT210119)	https://support.apple.com/kb/DL2001) macOS Mojave 10.14.5 Combo Update (https://support.apple.com/kb/DL2000)
10.14.6	18G84	July 22, 2019	18.7.0 xnu-4903.270.47~4	About the macOS Mojave 10.14.6 Update (https://support.apple.com/HT209149#macos10146) About the security content of macOS Mojave 10.14.6 (https://support.apple.com/HT210348)	macOS Mojave 10.14.6 Update (https://support.apple.com/kb/DL2011) macOS Mojave 10.14.6 Combo Update (https://support.apple.com/kb/DL2010)
	18G87	August 1, 2019		Addressed the Wake from Sleep bug, which caused Macs not waking from sleep properly. ^[49]	macOS Mojave 10.14.6 Supplemental Update (https://support.apple.com/kb/DL2015)
	18G95	August 26, 2019	18.7.0 xnu-4903.271.2~2	Security updates and bug fixes ^[50] <ul style="list-style-type: none"> ▪ Addressed: MacBooks shutting down during sleep ▪ Addressed: Performance throttling when handling large files ▪ Addressed: iLife applications (Pages, Keynote, Numbers, GarageBand, and iMovie) not updating ▪ Re-patched a vulnerability that was accidentally unpatched in the previous update, which could lead to hacking attempts^{[51][52]} 	macOS Mojave 10.14.6 Supplemental Update (https://support.apple.com/kb/DL2015)
	18G103	September 26, 2019	18.7.0 xnu-4903.271.2~2	Security updates and bug fixes ^[53]	macOS Mojave 10.14.6 Supplemental Update (https://support.apple.com/kb/DL2015)
	18G1012	October 29, 2019	18.7.0 xnu-4903.278.12~4	About the security content of Security Update 2019-001 (https://support.apple.com/HT210722)	Security Update 2019-001 (Mojave) (https://support.apple.com/kb/DL2024)
	18G2022	December 10, 2019	18.7.0 xnu-4903.278.19~1	About the security content of Security	Security Update 2019-002

				Update 2019-002 (https://support.apple.com/HT210788)	(Mojave) (https://support.apple.com/kb/DL2027)
18G3020	January 28, 2020	18.7.0 xnu-4903.278.25~1		About the security content of Security Update 2020-001 (https://support.apple.com/HT210919)	Security Update 2020-001 (Mojave) (https://support.apple.com/kb/DL2031)
18G4032 ^[54]	March 24, 2020	18.7.0 xnu-4903.278.28~1		About the security content of Security Update 2020-002 (https://support.apple.com/HT211100)	Security Update 2020-002 (Mojave) (https://support.apple.com/kb/DL2035)
18G5033	May 26, 2020	18.7.0 xnu-4903.278.35~1		About the security content of Security Update 2020-003 (https://support.apple.com/HT211170)	Security Update 2020-003 (Mojave) (https://support.apple.com/kb/DL2042)
18G6020	July 15, 2020	18.7.0 xnu-4903.278.43~1		About the security content of Security Update 2020-004 (https://support.apple.com/HT211289)	Security Update 2020-004 (Mojave) (https://support.apple.com/kb/DL2045)

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External links

- [macOS Mojave \(https://www.apple.com/macos/mojave\)](https://www.apple.com/macos/mojave) – official site
- [macOS Mojave \(https://support.apple.com/en-us/HT210190\)](https://support.apple.com/en-us/HT210190) download page at Apple

Preceded by macOS 10.13 (High Sierra)	macOS 10.14 (Mojave) 2018	Succeeded by macOS 10.15 (Catalina)
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