

macOS High Sierra

macOS High Sierra (version 10.13) is the fourteenth major release of macOS, Apple Inc.'s desktop operating system for Macintosh computers. macOS High Sierra was announced at the WWDC 2017 on June 5, 2017^[2] and was released on September 25, 2017. The name "High Sierra" refers to the High Sierra region in California. Like with Snow Leopard, Mountain Lion and El Capitan, the name also alludes to its status as a refinement of its predecessor, focused on performance improvements and technical updates rather than user features. Among the apps with notable changes are Photos and Safari.^{[2][3][4]}

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macOS 10.13 High Sierra

A version of the macOS operating system

macOS High Sierra



macOS High Sierra desktop

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 25, 2017
Latest release	10.13.6 Security Update 2020-004 ^[1] (17G14019) (July 15, 2020) [±] (https://en.wikipedia.org/w/index.php?title=Template:Latest_stable_software_release/macOS_High_Sierra&action=edit)
Update method	<u>Mac App Store</u>
Platforms	<u>x86-64</u>
Kernel type	<u>Hybrid</u> (<u>XNU</u>)
License	<u>APSL</u> and Apple <u>EULA</u> and <u>Non-Disclosure Agreement</u>
Preceded by	<u>macOS 10.12 Sierra</u>
Succeeded by	<u>macOS 10.14 Mojave</u>
Official website	<u>macOS High Sierra</u> (https://web.archive.org/web/20180911191128/https://www.apple.com/macOS/high-sierra/) at the <u>Wayback Machine</u> (archived September 11, 2018)

System requirements

macOS High Sierra runs on the following Macintosh computers:^[5]

Support status
Support is likely to end in late 2020. iTunes, likely in late 2021.

- iMac: Late 2009 or later
- MacBook: Late 2009 or later
- MacBook Pro: Mid 2010 or later
- MacBook Air: Late 2010 or later
- Mac Mini: Mid 2010 or later
- Mac Pro: Mid 2010 or later

macOS High Sierra requires at least 2 GB of RAM and 14.3 GB of available disk space.

HEVC hardware acceleration requires a Mac with a sixth-generation Intel processor or newer:

- iMac: Late 2015 27" or later, Mid 2017 21.5" or newer
- MacBook: Early 2016 or later
- MacBook Pro: Late 2016 or later
- iMac Pro

External graphics processor support requires a Thunderbolt 3-enabled Mac:

- MacBook Pro: Late 2016 or later
- iMac: Mid 2017 or later
- iMac Pro

It is possible to install High Sierra on many older Macintosh computers that are not officially supported by Apple. This requires using a patch to modify the install image.^[6]

Changes

System

Apple File System

Apple File System (APFS) replaces HFS Plus as the default file system in macOS for the first time with High Sierra.^[2] It supports 64-bit inode numbers, is designed for flash memory, and is designed to speed up common tasks like duplicating a file and finding the size of a folder's contents. It also has built-in encryption, crash-safe protections, and simplified data backup on the go.^[7]

Metal 2

Metal, Apple's low-level graphics API, has been updated to Metal 2. It includes virtual-reality and machine-learning features, as well as support for external GPUs.^[2] The system's windowing system, Quartz Compositor, supports Metal 2.

Media

macOS High Sierra adds support for High Efficiency Video Coding (HEVC), with hardware acceleration where available, as well as support for High Efficiency Image File Format (HEIF). Macs with the Intel Kaby Lake processor offer hardware support for Main 10 profile 10-bit hardware decoding, those with the Intel Skylake processor support Main profile 8-bit hardware decoding, and those with AMD Radeon 400 series graphics also support full HEVC decoding.^[2] However, whenever an Intel IGP is present, the frameworks will only direct requests to Intel IGP. In addition, audio codecs FLAC and Opus are also supported, but not in iTunes.^{[8][9]}

Other

Kernel extensions ("kexts") will require explicit approval by the user before being able to run.^[10]

The Low Battery notification and its icon were replaced by a flatter modern look.

The time service ntpd was replaced with timed for the time synchronisation.^[11]

The FTP and telnet command line programs were removed.^[12]

The screen can now be locked using the shortcut Cmd+Ctrl+Q. The ability to lock screen using a menu bar shortcut activated in Keychain Access preferences has now been removed.^[13]

The 10.13.4 update added support for external graphics processors for Macs equipped with Thunderbolt 3 ports.^[14] The update discontinued support for external graphics processors in 2015 or older Macs, equipped with Thunderbolt 1 and 2 ports.

Starting with 10.13.4, when a 32-bit app is opened, users get a one-time warning about its future incompatibility with the macOS operating system.^[15]

Applications

Final Cut Pro 7

Apple announced the original Final Cut Studio suite of programs will not work on High Sierra. Media professionals that depend on any of those programs were advised to create a double boot drive to their computer.^[16]

Photos

macOS High Sierra gives Photos an updated sidebar and new editing tools.^[2] Photos synchronizes tagged People with iOS 11.^[2]

Mail

Mail has improved Spotlight search with Top Hits.^[2] Mail also uses 35% less storage space due to optimizations, and Mail's compose window can now be used in split-screen mode.^[17]

Safari

Safari has a new "Intelligent Tracking Prevention" feature that uses machine learning to block third parties from tracking the user's actions.^[18] Safari can also block autoplaying videos from playing.^{[19][20]} The "Reader Mode" can be set to always-on.^[21] Safari 11 also supports WebAssembly.^[22]

Notes

The Notes app allows the user to add tables to a note.^[23] A note can be pinned to the top of the list.^[24]

Siri

Siri now uses a more natural and expressive voice. It also uses machine learning to understand the user better. Siri synchronizes information across iOS and Mac devices so the Siri experience is the same regardless of the product being used.^[25]

Messages

The release of macOS High Sierra 10.13.5 (and iOS 11.4) introduced support for Messages in iCloud.^[26] This feature allows messages to sync across all devices using the same iCloud account. When messages are deleted they are deleted on each device as well, and messages stored in the cloud do not take up local storage on the device anymore.^[27] In order to use the feature, the user has to enable two-factor authentication for their Apple ID.^[28]

Reception

Reception of macOS High Sierra was reportedly positive.^[29]

Problems

macOS High Sierra 10.13.0 and 10.13.1 have a critical^[30] vulnerability that allowed an attacker to become a root user by typing root in the username of the password prompt and not entering the password. This was fixed in the Security Update 2017-001 macOS High Sierra v10.13.1.^[31]

When it was first launched, it was discovered that the process named "WindowServer" had a memory leak, leading to much slower graphics performance and lagging animations, probably due to some last-minute changes in Metal 2. This was fixed in macOS 10.13.1.

macOS High Sierra 10.13.4 had an error that caused DisplayLink to stop working for external monitors. Only 1 monitor is able to be extended, if using 2 external monitors, they can only be mirrored. This also seems to be an issue with the beta version of Mojave. DisplayLink have said they are working with Apple to resolve the issues but as of the most recent macOS High Sierra update, the issue still persists.^[32]

Release history

	Previous release	Current release
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Version	Build	Date	Darwin	Notes	Standalone download
10.13	17A365	September 25, 2017	17.0.0	Original Mac App Store release About the security content of macOS High Sierra 10.13 (https://support.apple.com/HT208144)	N/A
	17A405	October 5, 2017		About the security content of macOS High Sierra 10.13 Supplemental Update (https://support.apple.com/HT208165)	macOS 10.13 Supplemental (https://support.apple.com/kb/DL1937)
10.13.1	17B48	October 31, 2017	17.2.0	About the macOS High Sierra 10.13.1 Update (https://support.apple.com/HT208177) About the security content of macOS High Sierra 10.13.1 (https://support.apple.com/HT208221)	macOS High Sierra 10.13.1 update (https://support.apple.com/kb/DL1941)
	17B1002	November 29, 2017		About the security content of Security Update 2017-001 (https://support.apple.com/HT208315)	Security Update 2017-001 macOS High Sierra v10.13.1 (https://support.apple.com/kb/DL1942)
	17B1003				
10.13.2	17C88	December 6, 2017	17.3.0	About the macOS High Sierra 10.13.2 Update (https://support.apple.com/HT208179) About the security content of macOS High Sierra 10.13.2 (https://support.apple.com/HT208331)	macOS High Sierra 10.13.2 Update (https://support.apple.com/kb/DL1946) macOS High Sierra 10.13.2 Combo Update (https://support.apple.com/kb/DL1944)
	17C89				
	17C205	January 8, 2018		About the security content of macOS High Sierra 10.13.2 Supplemental Update (https://support.apple.com/HT208397)	macOS High Sierra 10.13.2 Supplemental (https://support.apple.com/kb/DL1951)
	17C2205				
10.13.3	17D47	January 23, 2018	17.4.0	About the macOS High Sierra 10.13.3 Update (https://support.apple.com/HT208375) About the security content of macOS High Sierra 10.13.3 (https://support.apple.com/HT208465)	macOS High Sierra 10.13.3 Update (https://support.apple.com/kb/DL1954) macOS High Sierra 10.13.3 Combo Update (https://support.apple.com/kb/DL1953)
	17D2047				
	17D102	February 19, 2018		About the security content of macOS High Sierra 10.13.3 Supplemental Update (https://support.apple.com/HT208465)	macOS High Sierra 10.13.3 Supplemental (https://support.apple.com/kb/DL1953)
	17D2102				

				https://support.apple.com/HT208535)	s://support.apple.com/kb/DL1958)
10.13.4	17E199	March 29, 2018	17.5.0	About the macOS High Sierra 10.13.4 Update (https://support.apple.com/HT208533) About the security content of macOS High Sierra 10.13.4 (https://support.apple.com/HT208692)	macOS High Sierra 10.13.4 Update (https://support.apple.com/kb/DL1962) macOS High Sierra 10.13.4 Combo Update (https://support.apple.com/kb/DL1959)
	17E202	April 24, 2018		About the security content of Security Update 2018-001 (https://support.apple.com/HT208742)	Security Update 2018-001 macOS High Sierra v10.13.4 (https://support.apple.com/kb/DL1963)
10.13.5	17F77	June 1, 2018	17.6.0	About the macOS High Sierra 10.13.5 Update (https://support.apple.com/HT208723) About the security content of macOS High Sierra 10.13.5 (https://support.apple.com/HT208849)	macOS High Sierra 10.13.5 Update (https://support.apple.com/kb/DL1966) macOS High Sierra 10.13.5 Combo Update (https://support.apple.com/kb/DL1965)
10.13.6	17G66	July 9, 2018	17.7.0	About the macOS High Sierra 10.13.6 Update (https://support.apple.com/HT208864) About the security content of macOS High Sierra 10.13.6 (https://support.apple.com/HT208937)	macOS High Sierra 10.13.6 Update (https://support.apple.com/kb/DL1969) macOS High Sierra 10.13.6 Combo Update (https://support.apple.com/kb/DL1970)
	17G2208				
	17G3025	October 30, 2018	17.7.0	About the security content of Security Update 2018-002 High Sierra (https://support.apple.com/HT209193)	Security Update 2018-002 High Sierra (https://support.apple.com/kb/DL1979)
	17G4015	December 5, 2018	17.7.0	About the security content of Security Update 2018-003 High Sierra (https://support.apple.com/HT209341)	Security Update 2018-003 High Sierra (https://support.apple.com/kb/DL1984)
	17G5019	January 22, 2019	17.7.0	About the security content of Security Update 2019-001 High Sierra (https://support.apple.com/HT209446)	Security Update 2019-001 High Sierra (https://support.apple.com/kb/DL1989)
	17G6029	March 25, 2019	17.7.0	About the security content of Security Update 2019-002 High Sierra (https://support.apple.com/HT209600)	Security Update 2019-002 High Sierra (https://support.apple.com/kb/DL1997)
	17G6030	March 29, 2019	17.7.0	About the security content of Security	Security Update 2019-002 High

			Update 2019-002 High Sierra (https://support.apple.com/HT209635)	Sierra (https://support.apple.com/kb/DL1997)
17G7024	May 13, 2019	17.7.0	About the security content of Security Update 2019-003 High Sierra (https://support.apple.com/HT210119)	Security Update 2019-003 High Sierra (https://support.apple.com/kb/DL2004)
17G8029	July 22, 2019	17.7.0	About the security content of Security Update 2019-004 High Sierra (https://support.apple.com/HT210348)	Security Update 2019-004 High Sierra (https://support.apple.com/kb/DL2012)
17G8030	July 29, 2019	17.7.0	About the security content of Security Update 2019-004 High Sierra (https://support.apple.com/HT210348)	Security Update 2019-004 High Sierra (https://support.apple.com/kb/DL2012)
17G8037	September 26, 2019	17.7.0	About the security content of Security Update 2019-005 High Sierra (https://support.apple.com/HT210589)	Security Update 2019-005 High Sierra (https://support.apple.com/kb/DL2012)
17G9016	October 29, 2019	17.7.0	About the security content of Security Update 2019-006 High Sierra (https://support.apple.com/HT210722)	Security Update 2019-006 High Sierra (https://support.apple.com/kb/DL2023)
17G10021	December 10, 2019	17.7.0 xnu-4570.71.63~1	About the security content of Security Update 2019-007 High Sierra (https://support.apple.com/HT210788)	Security Update 2019-007 High Sierra (https://support.apple.com/kb/DL2026)
17G11023	January 28, 2020	17.7.0 xnu-4570.71.69~1	About the security content of Security Update 2020-001 High Sierra (https://support.apple.com/HT210919)	Security Update 2020-001 High Sierra (https://support.apple.com/kb/DL2032)
17G12034	March 24, 2020	17.7.0 xnu-4570.71.73~1	About the security content of Security Update 2020-002 High Sierra (https://support.apple.com/HT211100)	Security Update 2020-002 High Sierra (https://support.apple.com/kb/DL2034)
17G13033	May 26, 2020	17.7.0 xnu-4570.71.80~1	About the security content of Security Update 2020-003 High Sierra (https://support.apple.com/HT211170)	Security Update 2020-003 High Sierra (https://support.apple.com/kb/DL2041)
17G13035	June 1, 2020	17.7.0 xnu-4570.71.80.1~1	About the security content of Security Update 2020-003 High Sierra (https://support.apple.com/HT211215)	Security Update 2020-003 High Sierra (https://support.apple.com/kb/DL2041)
17G14019	July 15, 2020	17.7.0 xnu-4570.71.82.5~1	About the security content of Security Update 2020-004 High Sierra (https://support.apple.com/HT211289)	Security Update 2020-004 High Sierra (https://support.apple.com/kb/DL2046)

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External links

- [macOS High Sierra \(https://web.archive.org/web/20180911191128/https://www.apple.com/mac-os/high-sierra\)](https://web.archive.org/web/20180911191128/https://www.apple.com/mac-os/high-sierra) at the [Wayback Machine](#) (archived September 11, 2018) – official site
- [macOS High Sierra \(https://support.apple.com/en-gb/HT208969\)](https://support.apple.com/en-gb/HT208969) download page at [Apple](#)

Preceded by <u>macOS 10.12 (Sierra)</u>	macOS 10.13 (High Sierra) 2017	Succeeded by <u>macOS 10.14 (Mojave)</u>
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