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# Mac OS X Tiger

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**Mac OS X 10.4 Tiger** is the fifth major release of [Mac OS X](#), Apple's desktop and [server operating system](#) for [Mac](#) computers. Tiger was released to the public on April 29, 2005 for \$129.95 as the successor to [Mac OS X Panther](#). Some of the new features included a fast searching system called [Spotlight](#), a new version of the [Safari](#) web browser, [Dashboard](#), a new 'Unified' [theme](#), and improved support for [64-bit](#) addressing on [Power Mac G5s](#). Tiger shocked executives at [Microsoft](#) by offering a number of features, such as fast file searching and improved graphics processing, that Microsoft had spent [several years struggling](#) to add to [Windows](#) with acceptable performance.<sup>[5]</sup>

Tiger was included with all new Macs, and was also available as an upgrade for existing Mac OS X users, or users of supported [pre-Mac OS X](#) systems. The server edition, [Mac OS X Server 10.4](#), was also available for some Macintosh product lines. Six weeks after its official release, Apple had delivered 2 million copies of Tiger, representing 16% of all Mac OS X users. Apple claimed that Tiger was the most successful Apple OS release in the company's history.<sup>[6]</sup> At the [WWDC](#) on June 11, 2007, Apple's CEO, [Steve Jobs](#), announced that out of the 22 million Mac OS X users, more than 67% were using Tiger.<sup>[7]</sup>

Apple announced a [transition to Intel x86 processors](#) during Tiger's lifetime, making it the first Apple operating system to work on [Apple–Intel architecture](#) machines. The original [Apple TV](#), released in March 2007, shipped with a customized version of Tiger branded "Apple TV OS" that replaced the usual [GUI](#) with an updated version of [Front Row](#).<sup>[8]</sup>

Tiger was succeeded by [Mac OS X Leopard](#) on October 26, 2007, after 30 months, making Tiger the longest running version of Mac OS X.<sup>[9]</sup> The last security update released for Tiger users was the 2009-005 update.<sup>[10][11]</sup> The next security update, 2009-006<sup>[12]</sup> only included support for Leopard and Snow Leopard. The latest supported version of [QuickTime](#) is 7.6.4. The latest version of [iTunes](#) that can run on Tiger is 9.2.1, because 10.0 only supports [Mac OS X Leopard](#) and later.<sup>[13]</sup> Safari 4.1.3 is the final version for Tiger as of November 18, 2010.<sup>[14]</sup> Despite not having received security updates since then, Tiger remains popular with Power Mac users and [retrocomputing](#) enthusiasts due to its wide software and hardware compatibility, as it runs on a wide variety of older machines and is the last OS X version that supports [Classic Environment](#), a [Mac OS 9](#) compatibility layer.<sup>[15]</sup>

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## Mac OS X v10.4 Tiger

A version of the [Mac OS X](#) operating system



Screenshot of Mac OS X Tiger

<b>Developer</b>	<a href="#">Apple Inc.</a>
<b>Source model</b>	<a href="#">Closed source</a> (with <a href="#">open source</a> components)
<b>Released to manufacturing</b>	April 29, 2005
<b>Latest release</b>	10.4.11 / November 14, 2007; 7 years ago <sup>[1]</sup>
<b>Update method</b>	<a href="#">Apple Software Update</a>
<b>Platforms</b>	<a href="#">IA-32</a> , <a href="#">x86-64</a> , <a href="#">PowerPC</a>
<b>Kernel type</b>	<a href="#">Hybrid (XNU)</a>
<b>License</b>	<a href="#">Commercial proprietary software</a> <sup>[2]</sup>
<b>Preceded by</b>	<a href="#">Mac OS X 10.3 Panther</a>
<b>Succeeded by</b>	<a href="#">Mac OS X 10.5 Leopard</a>
<b>Support status</b>	
Unsupported as of September 2009, Safari support ended November 2010. <sup>[3][4]</sup>	

## System requirements [\[ edit \]](#)

Tiger was initially available in a [PowerPC](#) edition, with an [Intel](#) edition released beginning at 10.4.4. There is no universal version of the client operating system, although Tiger Server was made available on a universal DVD from version 10.4.7. While Apple shipped the PowerPC edition bundled with PowerPC-based Macs and also sold it as a separate retail box, the only way to get the Intel version was bundled with an Intel-based Mac. However, it was possible to buy the 'restore' DVDs containing the Intel version through unofficial channels such as [eBay](#), and officially through Apple if you could provide proof of purchase of the appropriate Intel Mac. These grey colored 'restore' DVDs supplied with new Macs, are designed to only restore on the model of Mac that they are intended for. The retail PPC-only DVD can be used on any PPC-based Mac supported by Tiger.

The system requirements of the PowerPC edition are:<sup>[16]</sup>

- A [PowerPC G3](#), [G4](#), or [G5](#) processor running at 300 [MHz](#) or faster
- Built-in [FireWire](#)
- At least 256 [megabytes](#) (MB) of [RAM](#), 128 MB can run it unofficially though (512 MB or 1 GB recommended)
- At least 3 GB of available [hard disk](#) space; 4 GB of disk space including the [Xcode 2 Tools](#), 2 GB for the minimal install
- DVD-ROM drive (CD-ROM exchange was available; offer ended on March 20, 2007)

Tiger removed support for older [New World ROM](#) Macs such as the original [iMacs](#) and [iBooks](#) that were supported in [Panther](#); however it is possible to install Tiger on these Macs using third-party software (such as [XPostFacto](#)) that overrides the checks made at the beginning of the installation process. Likewise, machines such as [beige Power Mac G3s](#) and 'Wall Street' [PowerBook G3s](#) that were dropped by Panther can also be made to run both Panther and Tiger in this way. Also, Tiger can be installed on unsupported New World ROM Macs by installing it on a supported Mac, then swapping hard drives. Old World ROM Macs require the use of XPostFacto to install Tiger.

Tiger was the last version of Mac OS X that supported the PowerPC G3 processor.

## History [\[ edit \]](#)

Apple CEO [Steve Jobs](#) first presented Tiger in his [keynote](#) presentation at the [WWDC](#) on June 28, 2004, ten months before its commercial release in April 2005. Four months before that official release, several non-commercial, developer's releases of Tiger leaked onto the internet via [BitTorrent](#) file sharers. It was first mentioned on Apple's website on May 4, 2004. Apple sued these file sharers.<sup>[17]</sup> On April 12, 2005, Apple announced Tiger's official, worldwide release would be April 29. All [Apple Stores](#) around the world held Tiger seminars, presentations and demos.

On June 6, 2005 at the WWDC in [San Francisco](#), Jobs reported that nearly two million copies had been sold in Tiger's first six weeks of release, making Tiger the most successful operating system release in Apple's history. Jobs then disclosed that Mac OS X had been engineered from its inception to work with Intel's [x86](#) line of processors in addition to the PowerPC, the [CPU](#) for which the operating system had always been publicly marketed. Apple concurrently announced its intent to release the first x86-based computers in June 2006, and to move the rest of its computers to x86 microprocessors by June 2007. On January 10, 2006, Apple presented its new [iMac](#) and [MacBook Pro](#) computers running on [Intel Core Duo](#) processors, and announced that the entire Apple product line would run on Intel processors by the end of 2006. Apple then released the [Mac Pro](#) and announced the new [Xserve](#) on August 8, completing the Intel transition in 210 days, roughly ten months ahead of the original schedule.

Tiger is the first version of Mac OS X to be supplied on a DVD, although the DVD could originally be exchanged for CDs for \$9.95. It is also the first (and so far only) version of Mac OS that would eventually have an update version number ending with a value greater than 9, as the last version of Tiger was 10.4.11.

## New and changed features [\[ edit \]](#)

### End-user features [\[ edit \]](#)

Apple advertises that Tiger has over 150 new and improved features, including:

- **Spotlight** — Spotlight is a full-text and [metadata](#) search engine, which can search everything on one's Mac including [Microsoft Word](#) documents, [iCal](#) calendars and [Address Book](#) contact cards. The feature is also used to build the concept of 'smart folders' into the [Finder](#). Spotlight will index files as they are saved, so they can be quickly and easily found through a search-as-you-type box in the menu bar. As a side-effect, it adds hidden folders and indexing files to removable media like USB flash drives.
- **iChat AV** — The new iChat AV 3.0 in Tiger supports up to four participants in a video conference and ten participants in an audio conference. It also now supports communication using the [XMPP](#) protocol. A XMPP server called [iChat Server](#) is included on Mac OS X Tiger Server.
- **Safari RSS** — The new Safari 2.0 [web browser](#) in Tiger features a built-in reader for [RSS](#) and [Atom web syndication](#) that can be accessed easily from an RSS button in the address bar of the web browser window. An updated version of Safari, included as part of the free Mac OS X v.10.4.3 update, can also pass the [Acid2](#) web standards test.
- **Mail 2** — The new version of Mail.app [email client](#) included in Tiger featured an updated interface, "Smart Mailboxes"

which utilize the Spotlight search system, parental controls, as well as several other features.

- **Dashboard** — The Dashboard is a new mini-applications layer based on [HTML](#), [CSS](#), and [JavaScript](#), which returns the [desk accessories](#) concept to the Mac OS. These accessories are known as [widgets](#). It comes with several widgets such as Weather, World Clock, Unit Converter, and Dictionary/[Thesaurus](#). More are available for free online. Its similarity to the [Konfabulator](#) application caused some criticism.<sup>[18]</sup>
- **Automator** — A scripting tool to link applications together to form complex automated workflows (written in [AppleScript](#), [Cocoa](#), or both). Automator comes with a complete library of actions for several applications that can be used together to make a Workflow.
- **VoiceOver** — screen reader interface similar to Jaws for Windows and other Windows screen readers that offers the blind and visually impaired user keyboard control and spoken [English](#) descriptions of what is happening on screen. VoiceOver enables users with visual impairment to use applications via keyboard commands. VoiceOver is capable of reading aloud the contents of files including web pages, mail messages and word processing files. Complete keyboard navigation lets the user control the computer with the keyboard rather than the mouse, a menu is displayed in a window showing all the available keyboard commands that can be used.
- **A complete built-in Dictionary/Thesaurus** based on the [New Oxford American Dictionary, Second Edition](#), accessible through an application, Dictionary, a Dashboard widget, and as a system-wide command (see below).
- **.Mac syncing** — Though this is not a new feature, .Mac syncing in Tiger is much improved over Panther. Syncing tasks in Tiger are now accomplished through the .Mac system preferences pane rather than the [iSync](#) application.
- **QuickTime 7** — A new version of Apple's multimedia software has support for the new [H.264/AVC](#) codec which offers better quality and scalability than other [video codecs](#).<sup>[citation needed]</sup> This new codec is used by iChat AV for clearer video conferencing. New classes within Cocoa provide full access to QuickTime for Cocoa application developers. The new QuickTime 7 player application bundled with Tiger now includes more advanced audio and video controls as well as a more detailed Information dialog, and the new player has been rebuilt using Apple's [Cocoa API](#) to take advantage of the new technologies more easily.
- **New Unix features** — New versions of [cp](#), [mv](#), and [rsync](#) which support files with [resource forks](#). Command-line support for features like the above-mentioned Spotlight are also included.
- **Xcode 2.0** — Xcode 2.0, Apple's Cocoa development tool now includes visual modelling, an integrated Apple Reference Library and graphical remote [debugging](#).



## New applications in Tiger [\[ edit \]](#)

- **Automator** — Automator uses workflows to process repetitive tasks automatically
- **Grapher** — Grapher is a new application capable of creating 2D and 3D graphs similar to that of [Graphing Calculator](#).
- **Dictionary** — A dictionary and thesaurus program which uses the [New Oxford American Dictionary](#). It has a fast GUI for displaying the Dictionary, and allows the user to search the dictionary with Spotlight, to print definitions, and to copy and paste text into documents. Dictionary also provides a Dictionary service in the Application menu, and Cocoa and [WebKit](#) provides a global keyboard shortcut (ctrl-⌘-D by default) for all applications that display text with them. Its use was furthered in the [next version of OS X](#) by providing definitions from [Wikipedia](#). The Dictionary application is a more feature-filled version of the Dictionary widget.
- **Quartz Composer** — Quartz Composer is a development tool for processing and rendering graphical data.
- **AU Lab** — AU Lab is a developer application for testing and mixing [Audio Units](#).
- **Dashboard** — Dashboard is a widget application. Tiger widgets include: a calculator, dictionary, a world clock, a calendar, and more ([full list](#)). Users can also download and install more widgets.

## Improvements [\[ edit \]](#)

- An upgraded [kernel](#) with optimized kernel resource locking and [access control lists](#), and with support for [64-bit userland address spaces](#) on machines with 64-bit processors.<sup>[19]</sup>
- An updated libSystem with both 32-bit and 64-bit versions; combined with the aforementioned kernel change, this allows individual applications to address more than 4 GB of memory when run on 64-bit processors, although an application using Apple libraries or frameworks other than libSystem would need to have two processes, one running the 64-bit code and one running the code that requires other libraries and frameworks.<sup>[19][20]</sup>
- A new startup [daemon](#) called [launchd](#) that allows for faster boots.
- The printing dialog in Tiger now features a drop down menu for creating [PDFs](#), sending PDFs to Mail, and other PDF related actions. However, the user interface has been criticized for creating a hybrid [widget](#) that looks like a plain button but acts like a pop-up menu. This is one of only three places in the entire Mac OS X interface where such an element appears.

- Dock menus now have menu items to open an application at login, or to remove the icon from the dock.
- The Window menu in the Finder now features a "Cycle Through Windows" menu item.
- The Get Info window for items in the Finder now includes a "More Info" section that includes Spotlight information tags such as Image Height & Width, when the file was last opened, and where the file originated.
- Early development of resolution independence. Apple notes that this will be a user-level feature in a future version of Mac OS X.<sup>[21]</sup> Among the changes, the maximum size of icons has been increased to 256x256. However, the Finder does not yet support this size.

## Technologies [ edit ]

- A new graphics processing [API](#), [Core Image](#), leveraging the power of the available accelerated graphics cards.
 

Core Image allows programmers to easily leverage programmable GPUs for fast image processing for special effects and image correction tools. Some of the included Image Units are Blur, Color Blending, Generator Filters, Distortion Filters, Geometry Filters, Halftone features and much more.
- A new data persistence API, [Core Data](#), that makes it easier for developers to handle structured data in their applications.
 

The Mac OS X [Core Data](#) API helps developers create data structures for their applications. Core Data provides undo, redo and save functions for developers without them having to write any code.
- A new video graphics API, [Core Video](#), which leverages Core Image to provide real-time video processing.
 

Apple's [Motion](#) real-time video effects program takes advantage of [Core Video](#) in Tiger. Core Video lets developers easily integrate real-time video effects and processing into their applications.
- [Core Audio](#) integrates a range of audio functionality directly into the operating system.

## Interface differences [ edit ]

In every major new revision of Mac OS X, Apple alters the [graphical user interface](#) somewhat. In Tiger, the menu bar displayed at the top of the screen now features a colored Spotlight button in the upper right corner; the menu itself has a smoother 'glassy' texture to replace the faint pinstripes in Panther.

Also of note, Tiger introduces a new window theme, often described as 'Unified'. A variation on the standard, non-brushed metal theme used since the introduction of Mac OS X, this theme integrates the title bar and the toolbar of a window. A prominent example of an application that utilizes this theme is [Mail](#).

## Accessibility [ edit ]

Tiger was the first version of Mac OS X to include the "Zoom" [screen magnifier](#) functionality which allowed the user to zoom on to the area around the mouse by holding CONTROL and scrolling the mouse wheel up or down (to zoom in and out respectively).<sup>[22]</sup>

## Tiger trademark lawsuit [ edit ]

Shortly before the release of Mac OS X Tiger, the computer retailer [TigerDirect.com, Inc.](#) filed a lawsuit against Apple, alleging that Apple infringed TigerDirect.com's trademark with the Mac OS X Tiger operating system.<sup>[23]</sup>

The following is a quotation from TigerDirect.com's court memorandum:

*Apple Computer's use of its infringing family of Tiger marks to expand sales of products besides its operating system software is already evident — for example, Apple Computer is offering free iPods and laptops as part of its Tiger World Premiere giveaway. In short, notwithstanding its representation to the PTO that it would only use Tiger in connection with their unique computer operating system software, Apple Computer has in recent weeks used a family of Tiger marks in connection with a substantially broader group of products and services, including the very products and services currently offered by Tiger Direct under its famous family of Tiger marks.*<sup>[24]</sup>

In 2005 TigerDirect was denied a [preliminary injunction](#) which would have prevented Apple from using the mark while the case was decided.<sup>[25]</sup> Apple and TigerDirect reached a settlement in 2006, after which TigerDirect withdrew its opposition.<sup>[26]</sup>

## Support for Intel processors [ edit ]

At the 2005 WWDC, Apple CEO Steve Jobs announced that Apple would begin selling Mac computers with Intel processors in 2006. To allow developers to begin producing software for these Intel-based Macs, Apple made Developer Transition Kits available for sale that included a version of Mac OS X v10.4.1 designed to run on [x86](#) processors.

This build includes Apple's [Rosetta](#) — a translation process that allows Intel processor versions of the OS to run PPC software with little penalty. This is contrasted with the current Mac OS 9 Classic mode, which uses comparably larger amounts of system resources.

Soon after the Developer Transition Kits began shipping, copies of Tiger x86 were leaked onto [file sharing](#) networks.

### Apple's transition to Intel processors

PowerPC · Architecture · Universal binary · Boot Camp · Rosetta

v · t · e

Although Apple had implemented a [Trusted Computing DRM](#) scheme in the transition hardware and OS in an attempt to stop people installing Tiger x86 on non-Apple PCs, the [OSx86](#) project soon managed to remove this restriction.<sup>[27]</sup> As Apple released each update with newer safeguards to prevent its use on non-Apple hardware, unofficially-modified versions were released that circumvented Apple's safeguards. However, with the release of 10.4.5, 10.4.6, and 10.4.7 the unofficially-modified versions continued to use the kernel from the 10.4.4 because later kernels have hardware locks and depend heavily on [EFI](#). By late 2006, the 10.4.8 kernel was cracked.<sup>[28]</sup>

At [MacWorld San Francisco 2006](#), Jobs announced the immediate availability of Mac OS X v10.4.4, the first publicly available release of Tiger compiled for both PowerPC and Intel x86 based machines.

## Release history [ edit ]

Version	Build	Date	OS name	Notes
10.4	8A428	April 29, 2005	Darwin	Preinstalled on much of new line
	8A432		8.0	Original retail release
10.4.1	8B15	May 16, 2005	Darwin	<a href="#">About the Mac OS X 10.4.1 Update</a> <span>↗</span>
	8B17	May 19, 2005	8.1	Server edition
10.4.2	8C46	July 12, 2005	Darwin 8.2	<a href="#">About the Mac OS X 10.4.2 Update (Delta)</a> <span>↗</span>
	8C47			Server edition
	8E102	October 12, 2005		Exclusively for <a href="#">Front Row iMac G5</a> released on same date
	8E45	October 19, 2005		Exclusively for <a href="#">PowerBook G4s</a> released on same date
	8E90			Exclusively for <a href="#">Power Mac G5 Dual and Quad</a> released on same date
10.4.3	8F46	October 31, 2005	Darwin 8.3	<a href="#">About the Mac OS X 10.4.3 Update (Delta)</a> <span>↗</span> Updated <i>retail</i> release
10.4.4	8G32	January 10, 2006	Darwin	<a href="#">About the Mac OS X 10.4.4 Update (Delta)</a> <span>↗</span> PowerPC
	8G1165		8.4	Shipped on initial Intel-based Macs
10.4.5	8H14	February 14, 2006	Darwin	<a href="#">About the Mac OS X 10.4.5 Update (delta)</a> <span>↗</span> PowerPC
	8G1454		8.5	<a href="#">About the Mac OS X 10.4.5 Update (delta)</a> <span>↗</span> Intel
10.4.6	8I127	April 3, 2006	Darwin	<a href="#">About the Mac OS X 10.4.6 Update (delta)</a> <span>↗</span> PowerPC; Final <i>retail</i> release
	8I1119		8.6	<a href="#">About the Mac OS X 10.4.6 Update (delta)</a> <span>↗</span> Intel
10.4.7	8J135	June 27, 2006	Darwin 8.7	<a href="#">About the Mac OS X 10.4.7 Update (delta)</a> <span>↗</span> PowerPC
	8J2135a			<a href="#">About the Mac OS X 10.4.7 Update (delta)</a> <span>↗</span> Intel
	8K1079	August 7, 2006		exclusively for <a href="#">Mac Pro</a> released the same date
	8N5107			exclusively for <a href="#">Apple TV</a> (formerly codenamed iTV) <sup>[29]</sup>
10.4.8	8L127	September 29, 2006	Darwin	<a href="#">About the Mac OS X 10.4.8 Update (delta)</a> <span>↗</span> PowerPC
	8L2127		8.8	<a href="#">About the Mac OS X 10.4.8 Update (delta)</a> <span>↗</span> Intel and Universal Server Edition
10.4.9	8P135	March 13, 2007	Darwin 8.9	<a href="#">About the Mac OS X 10.4.9 Update (delta)</a> <span>↗</span> PowerPC
	8P2137			<a href="#">About the Mac OS X 10.4.9 Update (delta)</a> <span>↗</span> Intel and Universal Server Edition
10.4.10	8R218	June 20, 2007	Darwin 8.10	<a href="#">About the Mac OS X 10.4.10 Update (delta)</a> <span>↗</span> PowerPC
	8R2218, 8R2232			<a href="#">About the Mac OS X 10.4.10 Update (delta)</a> <span>↗</span> Intel and Universal Server Edition
10.4.11	8S165	November 14, 2007	Darwin	<a href="#">About the Mac OS X 10.4.11 Update</a> <span>↗</span> PowerPC
	8S2167		8.11	<a href="#">About the Mac OS X 10.4.11 Update</a> <span>↗</span> Intel and Universal Server Edition

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## External links [[edit](#)]

- [Archive copy of official website](#)  at the [Wayback Machine](#) (archived June 9, 2011)
- [Ars Technica Mac OS X Tiger Review](#)  at [Ars Technica](#)
- [Mac OS X Tiger](#) at [Wikibooks](#)

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<b>Classic Mac OS (history)</b>	<span>System 1</span> · <span>2</span> · <span>3</span> · <span>4</span> · <span>5</span> · <span>System 6</span> · <span>System 7</span> · <span>Mac OS 7.6</span> · <span>Mac OS 8</span> · <span>Mac OS 9</span>
<b>OS X (history)</b>	<span>NeXTSTEP</span> · <span>OpenStep</span> · <span>Darwin</span> · <span>Mac OS X Server 1.0</span> · <span>Public Beta</span> · <span>v10.0</span> · <span>v10.1</span> · <span>v10.2</span> · <span>v10.3</span> · <b>v10.4</b> · <span>v10.5</span> · <span>v10.6</span> · <span>v10.7</span> · <span>v10.8</span> · <span>v10.9</span> · <span>v10.10</span> · <span>v10.11</span>
<b>Server</b>	<span>OpenStep</span> · <span>Rhapsody</span> · <span>OS X Server (OS X Server 1.0)</span>
<b>Other OS projects</b>	<span>AUX</span> · <span>Taligent</span> · <span>Newton OS</span> · <span>Copland</span> · <span>MkLinux</span> · <span>iOS</span>

<span>v</span> · <span>t</span> · <span>e</span>	<b>OS X</b>
<b>Versions</b>	Server 1.0 Hera · Public Beta Kodiak · 10.0 Cheetah · 10.1 Puma · 10.2 Jaguar · 10.3 Panther · <b>10.4 Tiger</b> · 10.5 Leopard · 10.6 Snow Leopard · 10.7 Lion · 10.8 Mountain Lion · 10.9 Mavericks · 10.10 Yosemite · 10.11 El Capitan
<b>Applications</b>	Automator · Calculator · Calendar · Chess · Contacts · Dashboard · Dictionary · DVD Player · FaceTime · Finder · Game Center · Grapher · iTunes (version history) · Launchpad · Mac App Store · Mail · Messages · Notes · Notification Center · Photo Booth · Photos · Preview · QuickTime · Reminders · Safari (version history) · Stickies · TextEdit · Time Machine <b>Discontinued</b> Front Row · iChat · iPhoto · iSync · Sherlock
<b>Utilities</b>	Activity Monitor · AirPort Utility · AppleScript Editor · Archive Utility · Audio MIDI Setup · Bluetooth File Exchange · Boot Camp · ColorSync · Configurator · Console · Crash Reporter · DigitalColor Meter · Directory Utility · DiskImageMounter · Disk Utility · Font Book · Grab · Help Viewer · Image Capture · Installer · Keychain Access · Migration Assistant · Network Utility · ODBC Administrator · Screen Sharing · System Preferences · System Information · Terminal · Universal Access · VoiceOver <b>Discontinued</b> Software Update · Remote Install Mac OS X
<b>Technology and user interface</b>	AirDrop · Apple menu · Apple Push Notification Service · AppleScript · Aqua · Audio Units · Bonjour · Cocoa · ColorSync · Command key · Core Animation · Core Audio · Core Data · Core Foundation · Core Image · Core OpenGL · Core Text · Core Video · CUPS · Cover Flow · Darwin · Dock · File Quarantine · FileVault · Fonts · Gatekeeper · Grand Central Dispatch · icns · Inkwel · I/O Kit · Kernel panic · Keychain · launchd · Mach-O · MacRuby · Menu extra · Metal · Mission Control · OpenCL · Option key · Preference Pane · Property list · Quartz · QuickTime · Quick Look · Smart Folders · Speakable items · Spotlight · Stacks · System Integrity Protection · Uniform Type Identifier · Universal binary · WebKit · XNU · XQuartz <b>Deprecated</b> Carbon <b>Discontinued</b> BootX · Brushed metal · Classic Environment · Rosetta · Spaces · Xgrid

Preceded by <b>OS X 10.3</b>	<b>OS X 10.4</b> 2005	Succeeded by <b>OS X 10.5</b>
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Categories: [2005 software](#) | [OS X](#) | [IA-32 operating systems](#) | [X86-64 operating systems](#) | [PowerPC operating systems](#) | [Discontinued operating systems](#)

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