



Mac OS X Developer Preview

Installation instructions for
Power Macintosh G3 computers

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Welcome to the Developer Preview of Mac OS X, Apple's new operating system. This release provides an early look at the technologies that will give users a strong and flexible computing environment.

System Requirements

This version of Mac OS X works with Power Macintosh G3 computers ("beige" desktops and "blue and white" tower) with

- at least 64 MB of RAM
- internal video, or an Apple-supplied ixMicro or ATI video card
- a hard disk with at least 1 gigabyte (GB) of available space

Hardware and Features Supported by This Release

Feature	Supported?
Serial port	No
Mouse	Yes
USB keyboard and mouse	On "blue and white" G3 computers
More than one monitor	No
SCSI or IDE hard disk ¹	Yes
CD-ROM drive	Yes
Floppy disk drive	No
Removable storage ²	Yes
Printing	Yes ³
Ethernet TCP/IP	Yes
AppleTalk	Yes
FireWire	No
G3 upgrade cards	No

¹ In this version of Mac OS X, Ultra Wide SCSI hard disks are supported but cannot be used as startup disks, except for the disks that shipped in the "blue and white" G3 computers.

² Removable media must be present when the computer starts up and cannot be removed until the computer is shut down or restarted.

³ Carbon and Yellow Box applications can print to networked PostScript printers.

Development Environments Supported by This Release

Environment	Supported?
Carbon applications	Yes
Yellow Box applications	Yes
Drivers	No
Application-level networking	Yes
System-level networking	No
Sound	No
OpenGL®	No

Preparing to Install Mac OS X: Partitioning the Disk

To install Mac OS X you need a hard disk with a minimum of 1 GB of free space. Apple strongly recommends that you install Mac OS X on a computer that uses Mac OS 8 or later, with the Mac OS 8 system software on its own partition or on a separate, external hard disk. This allows you to develop and test Carbon applications on both platforms.

Important You cannot install this version of Mac OS X on an Ultra Wide SCSI hard disk (except for those shipped with “blue and white” G3 computers). You must install Mac OS X on an IDE hard disk or an external SCSI hard disk.

If you want to install both Mac OS X and Mac OS 8 on a single hard disk, you need to use a Mac OS utility, such as Drive Setup (provided on the Mac OS X CD), to partition the disk into at least two Mac OS Extended (HFS Plus) partitions. The Mac OS X partition must be at least 1 GB. It will be reformatted by the Mac OS X Installer. The other partitions will not be changed.

If you have previously installed Mac OS X Server on your computer, you can reuse an existing Mac OS X Server partition.

Warning Partitioning a disk erases all the information on that disk. Before you partition a hard disk, back up any files you want to keep.

Installing Mac OS X

If you are installing Mac OS X on an external hard disk, make sure the SCSI ID number of the disk is the number you plan to use after installation. If you change the disk's ID number after installation, you'll need to use the System Disk application to reselect the startup device. See "Starting Up Your Computer With Mac OS X" on page 7.

If you have an AppleVision monitor, make sure the monitor's ADB cable is connected to the ADB port on the back of the computer. Otherwise, the monitor may not respond when you start up with Mac OS X. (See "Troubleshooting" on page 7.) Your AppleVision user's manual has information about connecting the ADB cable.

Starting Up From the Mac OS X CD

To install Mac OS X, you must start up your computer using the Mac OS X CD. The procedure depends on the software currently installed on your computer.

If Your Computer Has the Mac OS Only

- 1 Insert the Mac OS X CD in the computer's CD-ROM drive.
- 2 Restart the computer and hold down the C key while the computer starts up.
Continue holding down the C key until you see the message "Welcome to Mac OS."

If Your Computer Has Both Mac OS X Server and Mac OS 8, or if It Has Only Mac OS X Server

- 1 Restart the computer and hold down the Option key as the computer starts up.
- 2 Insert the Mac OS X CD in your computer's CD-ROM drive.
- 3 Restart the computer and hold down the C key as the computer starts up.
Continue holding down the C key until you see the message "Welcome to Mac OS."

Selecting a Destination Hard Disk and Installing the Core OS

After you've started up your computer with the Mac OS X CD, follow these steps:

- 1 Open the Mac OS X Install folder on the CD, then open the Install Mac OS X icon.
- 2 Follow the onscreen instructions to select a hard disk or partition for Mac OS X installation.

Warning All files and information on the selected disk or partition will be erased during the installation process.

After you select a destination hard disk, the computer restarts and begins installing the core OS. This process takes several minutes, and the progress indicator may sometimes move slowly.

Warning Don't click Quit or Stop while installing Mac OS X, or you may leave your hard disk in an unusable state. If this happens, you'll need to start the installation from the beginning.

When the core OS is installed, the computer restarts automatically and opens the Install Mac OS X application. When the installation is finished, the computer restarts.

After your computer restarts, you see a blue screen with a menu bar. There may be a slight delay before the Mac OS X welcome screen appears. Do not turn off or restart your computer.

After the installation is complete, the Mac OS X Setup Assistant appears. Follow the onscreen instructions to configure your computer. You can use the Setup Assistant (Assitant.app, in the /System/Administration directory) any time.

Using Mac OS X

Assigning Passwords

Mac OS X is a multi-user operating system; users must log in with a user name and password before they can access the computer. When you use the Mac OS X Setup Assistant, you specify a user name and password for one user (the Administrator, or "root"). If you select the Automatic Login option in the Setup Assistant, then every time the computer starts up, it automatically logs in to the account you specified, without asking for a password.

To temporarily turn off automatic login so that you can log in with a different account, restart the computer while holding down the mouse button, then release the mouse button when the login window appears.

You can create additional Mac OS X accounts later using the Network Manager, located in the /System/Administration directory. To create additional accounts, you must know the Administrator password.

Warning This version of Mac OS X has not been security-qualified and is not recommended for deployment on the Internet or other public-access networks.

Using Mac OS X and the Mac OS 8 Environment

Mac OS X includes the Mac OS 8 Compatibility Environment, an application that allows you to use Mac OS 8 and Mac OS 8 programs within the Mac OS X environment. To use the Mac OS 8 application, double-click the MacOS.app icon located in the /System/Applications folder.

If you want to use the Mac OS by itself (not as a Mac OS X application), you need to start up from a hard disk with the Mac OS installed on it.

Starting Up Your Computer With Mac OS 8

If you're using Mac OS X and you want to start up your computer from a Mac OS 8 disk, follow these steps:

- 3** In the Workspace Manager, open the File menu and choose Logout.
- 4** Click Restart.
- 5** Hold down the Option key until you see the message "Welcome to Mac OS."

Starting Up Your Computer With Mac OS X

If you're using Mac OS 8 and you want to start up your computer from a Mac OS X disk, you need to use the System Disk application (on the Mac OS X CD, in the Utilities folder). You can't use the Mac OS 8 Startup Disk control panel to select a Mac OS X disk as the startup disk.

To make a Mac OS X disk the startup disk, follow these steps:

- 1** Open the System Disk application.
The program is provided on the Mac OS X CD.
- 2** In the list of devices, select the Mac OS X disk.
- 3** Click Save and restart the computer.

Troubleshooting

Why is my monitor screen black?

- If you have an unsupported video card in your computer, you may need to remove it, even if no monitor is attached to the card.
- If you have an AppleVision monitor, its ADB cable must be connected to the ADB port on the back of the computer. See your AppleVision user's manual.
- If you recently changed the screen resolution, you may have selected a resolution that is not supported by your monitor. Follow the instructions below to restart using the Mac OS. This will reset the screen resolution setting.
- If you changed the SCSI ID number of your Mac OS X hard disk, use the System Disk application to reselect the startup device. See "Starting Up Your Computer With Mac OS X" on page 7.

Note: If you don't have a Mac OS 8 partition or hard disk, insert a CD containing Mac OS 8 system software and restart the computer again. Hold down the C key to start up from the CD.

How do I force an application to quit?

In the Workspace Manager, open the menu in the upper-right corner of the screen and choose Show Processes. Select the program you want to stop and click the Force Quit button.

How do I restart Mac OS X?

Switch to the Workspace Manager, then choose Logout from the File menu. Click Restart on the login window.

How do I turn off the Auto Login feature?

The Mac OS X Setup Assistant allows you to specify a user name and password to use automatically when you start up the computer. In this version of Mac OS X, you can change this option by using the Setup Assistant again. You must be logged in using the Administrator account. To temporarily bypass Auto Login, hold down the mouse button when you start up your computer. Then log in as Administrator and use the Setup Assistant to turn off the Auto Login option.

How do I transfer my files from Mac OS X Server to Mac OS X?

You can transfer files using Mac OS (HFS) disks or the tar utility. First use tar to archive the files, then transfer the archive file to your Mac OS X computer using FTP. For information on tar, open the Terminal application and type “man tar.”

How do I view diagnostic messages during startup?

Hold down the V key to start up the computer in verbose mode.

How do I reinstall Mac OS X?

To reinstall Mac OS X, you need to restart your computer using the Mac OS X CD. See “Starting Up From the Mac OS X CD” on page 5.

For More Information About Mac OS X

- The Mac OS X CD includes documentation that you can view while using the Mac OS.
- Developer documentation is in the /System/Documentation/Developer folder.
- Sample developer applications are in /System/Developer/Examples.
- Updates to the documentation, additional documentation, tips, patches, and demo applications and source code are available at the Apple Developer World Wide Web site: www.apple.com/developer/

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