



Installing Mac OS X Developer Preview 2

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Installing Mac OS X Developer Preview

Welcome to Release 2 of the Mac OS X Developer Preview. 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 the following computers:

- any Power Macintosh G3 computer
- any PowerBook G3 (except the original PowerBook G3)
- currently shipping iMac computers
- currently shipping Power Mac G4 computers

The computer must have

- at least 64 MB of RAM

To develop software using Mac OS X, you need at least 96 MB.

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

Note: You can install Mac OS X on an IDE hard disk or an external SCSI hard disk. You can also install Mac OS X on the Ultra Wide SCSI hard disk available with the “blue and white” Power Macintosh G3. (You cannot install Mac OS X on the Ultra Wide SCSI hard disk available with earlier Power Macintosh G3 computers.)

- a CD-ROM drive

Preparing to Install Mac OS X

To install Mac OS X, you need a hard disk or disk partition with a minimum of 1 GB of free space. You should install Mac OS X on a computer that has Mac OS 9 installed on its own partition or on a separate hard disk. This allows you to develop and test Carbon applications on both platforms.

To install both Mac OS X and an earlier version of the Mac OS on a single hard disk, you need to use a 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 partition on which you install Mac OS X will be reformatted by the Mac OS X Installer. The other partitions will not be changed.

Important Be sure to install Mac OS 9 on the first partition.

Before you begin installing Mac OS X, turn off any security or virus-protection software installed on your computer.

If you have a PowerBook, plug it in and set it so it doesn't go to sleep.

Installing Mac OS X Developer Preview

Step 1: Start Up From the CD

To start up your computer from the Mac OS X Developer Preview CD, do this:

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

You'll know you've started up from the CD when your computer's desktop pattern changes to a light-colored background that says "CD."

Step 2: Open the Installer

- To open the Installer, double-click the Mac OS X Installer icon.

Note: If you see a message that your computer's firmware needs to be updated, you should update it before proceeding with the installation. The updater and instructions are available at the Apple Software Updates Web site (<http://asu.info.apple.com/>).

After a moment, a screen appears describing the installation process. Click Continue, then follow the onscreen instructions.

Need help during installation?

- Click the Help button in the upper-right corner of the Installer window.
- See "Troubleshooting Information" on page 8.

After Installing Mac OS X Developer Preview

After you install Mac OS X Developer Preview, you can easily set up your computer and prepare it to connect to the network by using the Mac OS X Setup Assistant. The assistant appears automatically after you install Mac OS X. The assistant asks questions about you, your location, and how you want your computer configured. Then it makes all the settings for you.

Using Mac OS X

Assigning Passwords

Mac OS X is a multi-user operating system. To access the computer, you must log in with a user name and password. When you use the Mac OS X Setup Assistant, you specify a password for the Administrator. You can also create other user accounts using the Setup Assistant. To create user 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.

If you select the Automatic Login option in the Setup Assistant, the computer automatically logs in to the account you specified without asking for a password every time it starts up.

To temporarily disable 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.

Switching Between Mac OS Partitions

If you need to start up your computer using either the Mac OS X or Mac OS 9 partitions, follow these instructions.

Starting Up Your Computer Using Mac OS 9

To start up your computer using Mac OS 9, follow these steps:

- 1 In the Finder, open the File menu and choose Log Out, then click Restart.
- 2 Hold down the Option key until you see the message “Welcome to Mac OS.”

Starting Up Your Computer Using Mac OS X

To start up your computer using Mac OS X from Mac OS 9, follow these steps:

- 1 Open the System Disk application.
The System Disk application is in the Utilities folder on the Mac OS X Developer Preview CD.
- 2 Select the Mac OS X icon and click Save.

- 3 Restart your computer.

Troubleshooting Information

Before or During Installation

The Installer cannot repair your hard disk.

- If you see a message that the disk can't be fixed because a file is open, quit all programs. If file sharing is on, turn it off. Then try installing again.
- If you still get the message, use Disk First Aid, provided on the Mac OS X CD, to see if it can repair the disk.
- If you can't repair the disk, you may need to reinitialize it. First, back up your hard disk because reinitializing erases all the files on the disk. Then use the Drive Setup utility program, provided on the Mac OS X CD, to initialize the disk. For help with Drive Setup, open the program, then look in the Help menu. After you've initialized the disk, use the Mac OS X Installer to install the software again, then reinstall your application programs and your documents from your backup copy.

You see a message about updating the firmware.

If you see a message that you need to update your computer's firmware, you should do so before proceeding with the installation. The updater and instructions are available at the Apple Software Updates Web site (<http://asu.info.apple.com/>).

The Installer cannot update the hard disk driver.

The Installer cannot update non-Apple hard disks. Use the disk utility recommended by the manufacturer of your hard disk to update your drivers before installing Mac OS X. Make sure to get a version of the utility that is compatible with the software you are installing. An old utility will not be able to update your disk with the most current driver.

You see a message that the installation was not successful.

Make sure that you've started up your computer using the Mac OS X CD. If you can't start up from the CD, make sure any security and virus-protection software is turned off.

Other Problems

The onscreen Help system has answers to many of your questions. Open the Help menu, then choose Mac Help. Type some words that relate to your question, then click Search.

The computer begins to start up, then won't respond.

Mac OS X may be looking for a NetInfo server. Follow these steps:

- 1 Disconnect the computer's Ethernet connection.

- 2 When asked if you want to continue in non-network mode, enter Y.
- 3 Log in as Administrator.
- 4 Open the Apple menu and choose Mac OS Preferences, then choose Network.
- 5 In the NetInfo panel, make sure “Connect to parent NetInfo server at startup” is not selected.

The monitor screen is black.

Try these solutions:

- Press any key to wake up the computer.
- Make sure the monitor is properly connected and adjusted. See the manual that came with your monitor for more information.
- Make sure the resolution is set properly for your monitor. To set the resolution, shut down your computer and restart using Mac OS 9. Then open the Monitors & Sound or Monitors control panel to set the resolution to one supported by your monitor, and set the Color Depth to Thousands.
- 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 the manual that came with your monitor.

You can't log in to your computer.

Try these solutions:

- Make sure you are entering your password correctly, using the same capitalization and punctuation that you originally used. If you still can't log in, log in as Administrator and reset the password for your user account using the Mac OS X Setup Assistant.
- If you are using automatic login, temporarily bypass it by holding down the mouse button when you start up your computer. To turn off automatic login, see “You want to turn off the automatic login feature,” later in this section.

Network services don't seem to be working.

Try these solutions:

- Make sure that one end of the Ethernet cable is plugged into the Ethernet port on the computer and the other end is plugged into a working Ethernet connector.
- Use DiskFirstAid to make sure your hard disk is working properly.
- Check your computer's AppleTalk and TCP/IP configurations and see if you can access AppleTalk devices or IP services on the network.
- Make sure the appropriate server processes are running. See your server administrator for more information.

- Restart your computer.
- If you've exhausted all solutions, you may need to reinstall Mac OS X. When you reinstall the software, you will lose documents and data. If you have backed up your computer, you can restore the data you backed up.

You can't quit an application.

If you can't quit an application, you may need to force it to quit. Open the Application menu (at the right end of the menu bar) and choose Show Processes. Select the program you want to stop and click the Force Quit button.

You want to turn off the automatic login feature.

The Mac OS X Setup Assistant allows you to specify a user name and password to log in automatically when you start up the computer. To temporarily bypass automatic login, hold down the mouse button when you start up your computer. To turn off this option, open the Setup Assistant and click the right arrow button until you see the Automatic Login panel. Click "Show login window at startup" to select it, then enter the Administrator's password.

You can't restart or shut down the computer.

If you can, choose Log Out from the File menu, then click Restart. If this doesn't work, try these solutions:

- Log in as Administrator, open the Apple menu and choose Computer Settings, then choose Login Window. If the Disable Restart & Power Off setting is selected, remove the checkmark.
- Make sure there is enough space available on the startup disk to save the information necessary to shut down the computer. Delete files you no longer need.

If neither solution works, you can force the computer to restart.

Warning Forcing your computer to restart may result in data loss or disk corruption. You should only use this procedure as a last resort. If possible, save any open documents, then quit all applications and processes before following these instructions. Make sure no other users are connected to your computer before you restart it.

To force your computer to restart, do this:

- Hold down the ⌘ and Control keys and press the Power key.

After forcing your computer to restart, you may want to test and repair the hard disk (see "Testing or Repairing the Hard Disk," next).

Testing or Repairing the Hard Disk

Use DiskFirstAid to make sure your hard disk is working properly.

Supported Hardware and Features

Feature	Supported?
Serial port	No
Mouse	Yes
USB keyboard and mouse	Yes (on computers with built-in USB ports)
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 ³	Yes
Ethernet TCP/IP	Yes
AppleTalk	Yes
FireWire	No
Power management	No
G3 upgrade cards	No

¹ With this version of Mac OS X, you can save files on any Ultra Wide SCSI hard disk.

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 Cocoa applications can print to networked PostScript™ printers.

Supported Development Environments

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

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Greg Stein (Apache mod_dav)

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