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Welcome to Rhapsody



Welcome to the second developer release of Rhapsody, Apple's new operating system. This developer release provides an early look at the technologies that will give users in high-end markets a strong and flexible computing environment.

System requirements

This version of Rhapsody works with the following computers:

- Power Macintosh G3 (desktop or tower models)
- Power Macintosh 9600
- Power Macintosh 8600
- Power Macintosh 9500
- Power Macintosh 8500
- Power Macintosh 7600

Note: In this version of Rhapsody, one processor is used on multiprocessor (MP) computers.

Your computer must have

- at least 32 MB of RAM (48 MB recommended for development)
- internal video, or Apple-supplied IMS or ATI video card
- a hard disk with at least 500 MB of available space

Supported configurations

These hardware and features are supported by this version of Rhapsody.

	Supported	Not Supported
CD-ROM drive	√	–
Monitor	√	–
Ethernet TCP/IP	√	–
SCSI or IDE hard disk*	√	–
Printing <i>PostScript™ TCP/IP or AppleTalk</i>	√	–
Mouse <i>one and two-button</i>	√	–
Removable storage	√	–
Floppy disk drive	√	–
AppleTalk	√	–
Serial port	–	√
Driver Development Kit	–	√

* In this version of Rhapsody, Ultra Wide SCSI hard disks are supported but cannot be used as startup disks.

This version of Rhapsody supports the internal video of Power Macintosh G3, 8500, and 8600 models, and the IMS and ATI video cards that come with Power Macintosh 9500 and 9600 models. (Some other PCI video cards may also work, but they are not supported in this release.)

Before you begin

To install Rhapsody you need a hard disk with a minimum of 500 MB free space. To install all the software, documentation, and development tools, 1 GB of free space is recommended.

IMPORTANT You cannot install this version of Rhapsody on an Ultra Wide SCSI hard disk. You must install Rhapsody on an IDE hard disk or an external SCSI hard disk.

If you will be using both the Mac OS and Rhapsody on the same computer, it's recommended that you install Rhapsody on a separate, external hard disk.

If you want to install both Rhapsody and the Mac OS on a single hard disk, then you first need to use a Mac OS utility, such as Drive Setup (provided on the Rhapsody CD), to partition the disk into at least two Mac OS (HFS) partitions. The Rhapsody partition must be at least 500 MB. It will be reformatted by the Rhapsody Installer. The other partitions will not be changed.

If you have previously installed Rhapsody on your computer, you can reuse an existing Rhapsody partition. Installation will erase all the files on the partition, so make sure to back up any files you want to keep.

After you install Rhapsody, you should avoid changing the SCSI ID number of the Rhapsody hard disk. Before you install, set the disk to the ID number you want it to use. (If you change the ID number later, you'll need to use the Mac OS Multi-OS Booter application to reselect the Rhapsody boot device.)

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 Rhapsody. (See Chapter 4, "Troubleshooting," if this occurs.) Your AppleVision user's manual has information about connecting the ADB cable.

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Installing Rhapsody



IMPORTANT Read and follow all the steps discussed in Chapter 1 before continuing.

Starting up from the Rhapsody CD

You must start your computer using the Rhapsody CD to install the software. The procedure depends on the software currently installed on your computer.

If your computer has both Rhapsody and the Mac OS

To install this version of Rhapsody you need to begin within the Mac OS environment. Follow these steps:

1 Start your computer with the Mac OS.

To start your computer with the Mac OS, follow the instructions provided with the version of Rhapsody you currently have installed. For example, if you have Rhapsody DR1 installed, restart the computer and hold down the Caps Lock key.

2 Insert the *Rhapsody for Power Macintosh* CD in your computer's CD-ROM drive.

3 Restart the computer.

4 Hold down the C key while the computer starts up.

Your computer starts up from the CD-ROM disc. Continue holding down the C key until you see the message “Welcome to Mac OS.”

If your computer has the Mac OS only

If your computer does not currently have Rhapsody installed, follow these steps:

- 1 **Insert the *Rhapsody for Power Macintosh* CD in your computer's CD-ROM drive.**
- 2 **Restart your computer.**
- 3 **Hold down the C key while the computer starts up.**

Your computer starts up from the CD-ROM disc. Continue holding down the C key until you see the message “Welcome to Mac OS.”

If your computer has Rhapsody only

If your computer does not have a Mac OS hard disk or partition, follow these steps:

- 1 **Insert the *Rhapsody for Power Macintosh* CD in your computer's CD-ROM drive.**
- 2 **Shut down the computer.**
- 3 **Turn on the computer, then hold down the keys \mathbb{C} , Option, P, and R.**

Hold down the keys until you hear a second startup tone. This will clear the parameter RAM (PRAM) settings and cause the computer to look for a Mac OS startup disk.

- 4 **Quickly release the keys, then hold down the C key.**

This instructs the computer to start from the CD-ROM drive. Release the C key when you see the message “Welcome to Mac OS.”

Selecting a destination hard disk and installing the core OS

After you've started your computer with the Rhapsody CD, follow these steps:

- 1 **Open the Rhapsody Install folder on the CD, then double-click the Install Rhapsody icon.**
- 2 **Follow the onscreen instructions to select a hard disk or partition for Rhapsody 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.

When the core OS is installed, the computer restarts automatically and opens the Install Rhapsody application.

Installing the Rhapsody packages

- 1 **If you are not connected to a NetInfo (Rhapsody) network, enter Y to start up the computer in nonnetwork mode.**

You will still be able to configure and use TCP/IP networking.

IMPORTANT After the computer starts up, it may take a few minutes for the Install Rhapsody dialog box to appear. Do not restart or turn off your computer.

- 2 **Select all the packages you want to install.**

It's recommended that you install all the packages you may need. With this version of the Installer you cannot reinstall additional packages later.

- 3 **Click Install to continue with installation.**

WARNING Don't click Quit or Stop while installing Rhapsody, 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 installation is finished, a message appears on the screen.

4 Click Restart.

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

Using the Rhapsody Setup Assistant

After the installation is complete, the Rhapsody Setup Assistant appears. Follow the onscreen instructions to configure your computer.

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Getting Started With Rhapsody



Assigning passwords

Rhapsody is a multi-user operating system. Therefore, Rhapsody users must log in with a user name and password before they can access the computer. When you use the Rhapsody Setup Assistant, you specify a user name and password for one user. If you select the Automatic Login option, then you are automatically logged in using this account when you start the computer.

You can create additional Rhapsody accounts with the Network Manager application, located in the /System/Administration folder. You must know the Administrator, or “root,” password to add accounts. For help, double-click NetAdmin.help, located in the /System/Administration folder.

WARNING This version of Rhapsody has not been security-qualified and is not recommended for deployment on the Internet or other public-access networks.

Using Rhapsody and the Mac OS

Rhapsody includes the Mac OS application, code-named “Blue Box,” which allows you to use the Mac OS and Mac OS programs within the Rhapsody environment. To use the Mac OS 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 Rhapsody application), you need to start up from a hard disk with the Mac OS installed on it.

Starting your computer with the Mac OS

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

- 1 In the Workspace Manager, choose Logout from the File menu.**

- 2 Click the Restart button.**

Wait until the computer restarts.

- 3 Hold down the M key until you see the message “Welcome to Mac OS.”**

Starting your computer with Rhapsody

If you’re using the Mac OS and you want to start your computer from a Rhapsody disk, you need to install Multi-OS Booter on your Mac OS system. This allows you to select a disk or partition for your computer to obtain its startup software. Multi-OS Booter is available as an application program and as an extension. You can use either, depending on how you like to work with your computer.

Using the Multi-OS Booter application

To switch from the Mac OS to Rhapsody using the Multi-OS Booter application, follow these steps:

- 1 Open the Multi-OS Booter application.**
- 2 Choose the startup disk where Rhapsody is installed.**
- 3 Click Save.**

This configures your computer to use Rhapsody the next time you restart your computer.

- 4 In the Finder, open the Special menu and choose Restart.**

Using the Multi-OS Booter extension

To switch from the Mac OS to Rhapsody using the Multi-OS Booter extension, follow these steps:

- 1 Make sure you've installed the Multi-OS Booter extension.**

To install the extension, drag it to your closed Mac OS System Folder, then click OK when asked to confirm that you're installing an extension.

- 2 In the Finder, open the Special menu and choose Restart.**
- 3 Hold down the Option key until you see the Multi-OS Booter window.**
- 4 Select your Rhapsody startup disk, then click Restart.**

The computer restarts and loads Rhapsody from the disk you selected.

Finding more information about Rhapsody

- The *Rhapsody for Power Macintosh Computers* CD includes documentation that you can view while using the Mac OS.
- While using Rhapsody, switch to the Workspace Manager, then open the Help menu. Choose Workspace Manager Help to view information about Rhapsody.
- The NetAdmin.help file, available in the /System/Administration folder, has information about using Rhapsody networks.
- Developer documentation and sample applications are installed in the /System/Documentation/Developer folder.

Updates and news on the Internet

Updates to the documentation, additional documentation, tips, patches, and demo applications and source code are available on the Apple Developer World Web site, located at the following address: <http://devworld.apple.com/>

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Troubleshooting



If you encounter problems when installing or using the software code-named Rhapsody, read this chapter for solutions.

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 Rhapsody hard disk, use the Multi-OS Booter application to identify your Rhapsody hard disk, then restart your computer. Use the following instructions to restart using the Mac OS so you can use the Multi-OS Booter program:

1 Press Control-Power, then press the H key.

This will halt Rhapsody. This method of stopping Rhapsody may result in data loss and should be used only as a last resort.

2 Press ⌘-Control-Power to restart the computer.

3 After the startup tone, press ⌘-Option-P-R until you hear the startup tone again.

This resets parameter RAM (PRAM) and the computer starts up with the Mac OS. Use the Monitors & Sound control panel to adjust the monitor settings. You will also need to reset your AppleTalk, time zone, startup disk, system volume, virtual memory, and disk cache settings.

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

How do I force an application to quit?

Switch to the Workspace Manager, then choose Processes from the Application menu in the upper-right corner of the screen. Select the program you want to stop and click the Force Quit button.

How do I restart Rhapsody?

Switch to the Workspace Manager, then choose Logout from the File menu. Click Restart on the Login screen. (If you have Auto Login turned on, hold down the mouse button after you log out to force the Login screen to appear.)

How do I turn off the Auto Login feature?

The Rhapsody Setup Assistant allows you to specify a user name and password to use automatically when you start the computer. In this version of Rhapsody, 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 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 Prelude to Rhapsody or OpenStep?

Rhapsody media formats, including floppy disk formats, cannot be transferred directly between Rhapsody and OpenStep. To transfer files from other systems, use the “tar” utility to archive the files. Then transfer the archive file to your Rhapsody computer using FTP. For information on “tar,” open the Terminal application and enter `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 Rhapsody?

To reinstall Rhapsody, you need to restart your computer using the Rhapsody CD-ROM.

If you have a Mac OS hard drive or partition, shut down Rhapsody, then turn on your computer and hold down the M key. After the Mac OS starts up, restart your computer again and hold down the C key to start up from the Rhapsody CD.

If the Mac OS is not installed on your computer, insert the CD, then restart the computer while pressing ⌘-Option-P-R. After you hear the second start up tone, release these keys, then immediately hold down the C key to start up the computer from the Rhapsody CD-ROM disc.

Acknowledgments

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