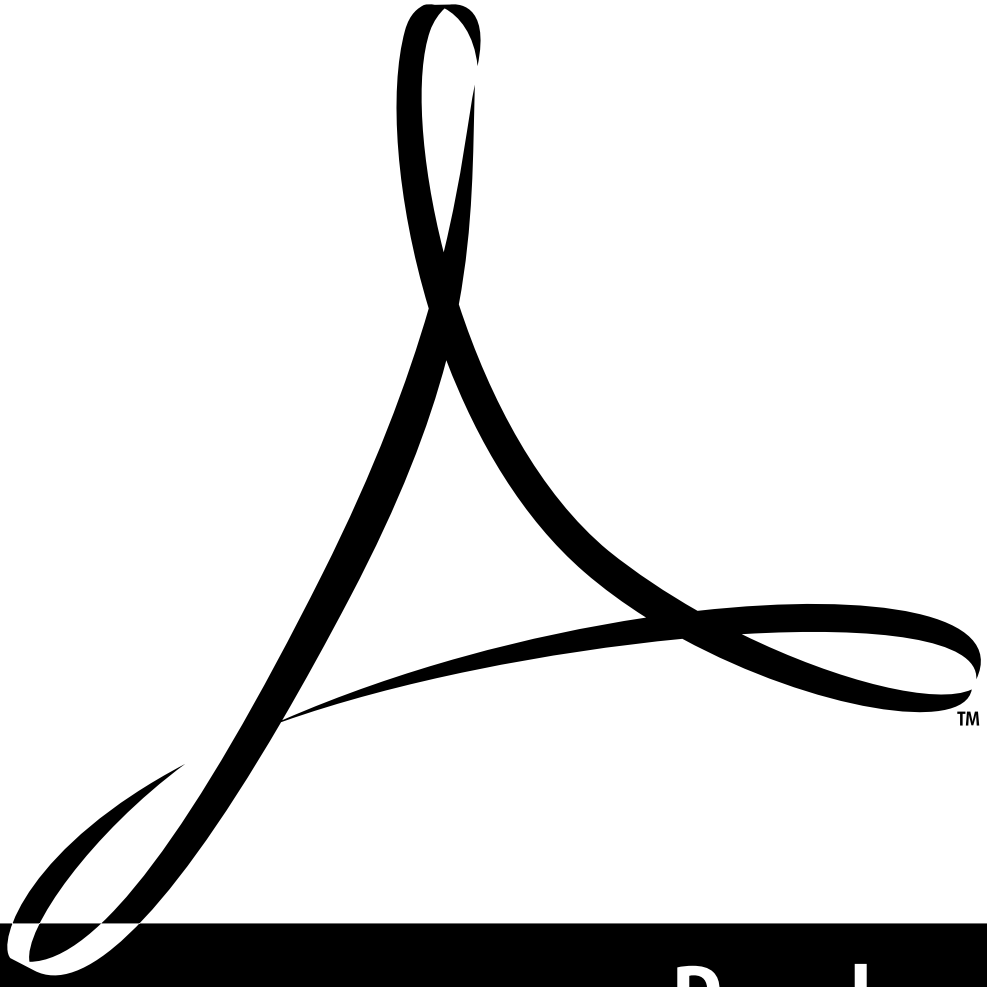
Adobe

Reader Installation Guide

Adobe™ Acrobat™ version 1.0.1



UNIX®
Silicon Graphics®

Reader

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Adobe Acrobat Reader for Silicon Graphics IRIX 5.3—Version 1.0.1

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Adobe Acrobat Reader for Silicon Graphics IRIX 5.3

Welcome to Adobe™ Acrobat™ Reader software—Version 1.0.1 for Silicon Graphics IRIX 5.3. This guide tells you how to install Acrobat Reader software on your system.

To install Acrobat Reader on your workstation, you must be familiar with basic UNIX® commands and with the Indigo Magic™ desktop environment. If you are not, please consult with your system administrator before beginning this installation.

This release of Acrobat Reader includes the Acrobat Reader software and associated files.

The following documents are available online in the directory <*installdir*>/AcroRead_1.0.1/doc and can be read using Acrobat Reader (the default location if <*installdir*> is /usr/adobe):

- *Acrobat Reader Help*
- *Acrobat Reader Tour*
- *Acrobat Reader Release Notes*
- *Acrobat Reader Installation Guide*

SYSTEM REQUIREMENTS AND LIMITATIONS

To use Acrobat Reader software, you need the following minimum hardware and software:

- A Silicon Graphics workstation
- IRIX 5.3 operating system
- 9 megabytes of available hard disk space
- 16 megabytes of RAM

BEFORE YOU START

Before beginning the installation, decide whether an Easy Installation or a Custom Installation is more appropriate. Both are scripts that run in a shell window and require you to type your responses to queries at the command line. If you plan to install Acrobat Reader on a single workstation, and you meet the requirements for Easy Installation, this method is recommended. Most users, however, will install Acrobat Reader on a network.

You can choose to perform an Easy Installation only if the following conditions and installation default locations are acceptable:

- Acrobat Reader is to be installed locally on a single system.
- A local CD-ROM drive is available.
- /usr/bin for symbolic links to Acrobat Reader's and Display PostScript NX's launch scripts. (A symbolic link is created from /usr/adobe/AcroRead_1.0.1/bin/acroread to /usr/bin/acroread and from /usr/adobe/DPSNXBasic_2.1.1/bin/dpsnx.agent to /usr/bin/dpsnx.agent.)

If Easy Installation does not meet your needs, you will need to perform a Custom Installation. Custom Installation is recommended for network installation, which facilitates long-term administration and maintenance tasks.

You must have root access on the workstation on which the Acrobat Reader software is to be installed. To gain root access, you need the root password.

Before you begin, consult with your system administrator or a knowledgeable UNIX user if you have any questions. If you choose Easy Installation, proceed to the next section, "Easy Installation of the Acrobat Reader Software." For the Custom Installation, go to "Custom Installation Options" on page 4.

***Note**: For a description of the Acrobat Reader directory structure, see "Acrobat Reader Installed Files" on page 11.*

EASY INSTALLATION OF THE ACROBAT READER SOFTWARE

The Easy Installation script installs the software, creates a symbolic link from /usr/bin/acroread to the Acrobat Reader launch script located in <*installdir*>/AcroRead_1.0.1/bin/acroread, and integrates the Acrobat Reader icons into the desktop.

Reasonable default values are provided. Press Enter to select the recommended defaults, or enter your own values. If a default is not provided, type in your choice.

If you make a mistake, you can either exit at different points in the procedure or press the interrupt key sequence (Control+C on most UNIX systems) to cancel the installation. If you cancel before the message `Beginning Installation` is displayed, no files are saved in the installation directory.

To run the Easy Installation script:

1 After opening a shell window, become the superuser (root account):

```
% su root
Password: <root_password>
```

2 Insert the CD-ROM into a caddy and place it into the CD-ROM drive. The CD-ROM is ready once the CD-ROM icon appears on your desktop.

***Note**: If the CD-ROM does not mount automatically, refer to your system documentation for instructions on mounting the CD-ROM.*

3 In your shell window, go to the acroread directory (the acroread directory is typically located in /CDROM/unix_sgi/acroread or /CDROM/acroread):

```
# cd /CDROM/acroread
```

4 Start the Easy Installation script:

```
# ./easyinst.rdr
```

5 Follow the instructions that appear on your screen. When the installation is complete, a message appears indicating that you have successfully installed the software.

6 Eject the CD-ROM by typing the following commands within a UNIX shell window:

```
# cd /
# eject /CDROM
```

You should now proceed to the section "Launching Acrobat Reader" on page 9.

CUSTOM INSTALLATION OPTIONS

Before starting a Custom Installation, you need to determine various installation options, such as where you will place the Acrobat Reader files. The following sections describe the installation options.

Local versus network installation

Determine whether a local or network installation is more appropriate for your situation.

***Important**: Network installation should be performed by a system or network administrator.*

Local installation guarantees access to the software from your workstation and may provide performance gains, depending on how much activity there is on your network. Users who install Acrobat Reader on their workstation will need the root password for their workstation.

Network installation makes administrative and maintenance tasks easier, particularly when many users want to access the software concurrently. It is simple for new users to access Acrobat Reader in a network environment, and it is easier to upgrade a single copy of software installed on a server than to upgrade multiple copies installed on standalone workstations. Users who install Acrobat Reader on a network machine will need the root password for the network machine.

A number of special considerations apply when you perform a network installation of the software. These considerations include your choice of an installation root directory and launch script directory.

- The software should be installed on a network server machine with high reliability.
- The file system containing Acrobat Reader should be mounted from all workstations on which you will want to run the software.

Choosing an installation root directory

Locate a directory and verify that you have at least 9 megabytes of available disk space. The default location for installation of the Acrobat Reader software is the /usr/adobe directory. If there is insufficient space in this partition, free up some space or choose another directory within a different partition.

Use the `df` command to determine the available space within a file system partition containing a particular directory. For example:

```
# df -k /usr

Filesystem   Type   kbytes    use   avail  % use    Mounted on
/dev/usr     efs    207295  98377   88189   53%        /
```

There is a total of 207,295 kilobytes (about 207 megabytes) in this partition and about 88 megabytes available, which is enough disk space to install the Acrobat Reader software.

For network installation: It is recommended that you choose directory names that reflect the CPU architecture and the operating system for your installation. For the Silicon Graphics version of Acrobat Reader for the IRIX 5.3 operating system, you could install the software in a directory named /disks/apps/adobe/irix5.3, instead of the /usr/adobe default location. This strategy makes it easy for you to add different computing platforms and operating system versions.

Choosing a launch script directory

Acrobat Reader includes a launch script that automatically runs the Acrobat Reader program and passes it to the appropriate installation-specific parameters. Always start up Acrobat Reader using its launch script.

Before installing the Acrobat Reader software, determine in which directories you want to create symbolic links to the launch scripts. A symbolic link provides a mechanism for accessing a file or directory through a different name. Symbolic links enable you to access the Acrobat Reader launch scripts from a directory other than the directory in which the software is installed.

For local installation: A default location of /usr/bin is recommended. This directory is generally in each user's search path. A *path* is a set of directoried that the system searches to find commands. The system searches directories in the order specified by the PATH environment variable, which can be defined in your .login, .cshrc, or .profile file.

For network installation: It is recommended that you establish a platform-specific directory containing links to Acrobat Reader launch scripts, such as /disks/apps/bin/irix5.3. (A makelinks script is provided to facilitate this link.) Users should then include this directory in their paths, or they should include a generic directory, such as /usr/local/bin, which is a symbolic link on the local machine to the platform-specific directory.

CUSTOM INSTALLATION OF THE ACROBAT READER SOFTWARE

The Acrobat Reader Custom Installation procedure consists of two steps:

1. Running the Custom Installation script to install the Acrobat Reader software.
2. Creating symbolic links to the Acrobat Reader and Display PostScript NX launch scripts.
3. Integrating icons into the Indigo Magic desktop.

Running the Custom Installation script

The Custom Installation script installs the software and prompts you to answer questions regarding the installation. Reasonable default values are provided. Press Enter to select the recommended defaults, or enter your own values. If a default is not provided, type in your choice.

If you make a mistake, you can either exit at different points in the procedure or press the interrupt key sequence (Control+C on most UNIX systems) to cancel the installation. If you cancel before the message `Beginning Installation` is displayed, no files are saved in the installation directory.

To run the Custom Installation script:

1. After opening a shell window, become the superuser (root account):

```
% su root
Password: <root_password>
```

2 Insert the CD-ROM into a caddy and place it into the CD-ROM drive. The CD-ROM is ready once the CD-ROM icon appear on your desktop.

***Note**: If the CD-ROM does not mount automatically, refer to your system documentation for instructions on mounting the CD-ROM.*

3 In your shell window, go to the acroread directory (typically /CDROM/unix_sgi/acroread or /CDROM/acroread):

```
# cd /CDROM/acroread
```

4 Start the Custom Installation script:

```
# ./install.rdr
```

5 Follow the instructions that appear on your screen. When the installation is complete, a message appears indicating that you have successfully installed the software.

6 Eject the CD-ROM by typing the following commands within a UNIX shell window:

```
# cd /
# eject /CDROM
```

Next, you will create symbolic links to the launch script and integrate the Acrobat Reader icon into your desktop. Proceed to the next section, "Creating symbolic links to the launch script directory."

Creating symbolic links to the launch script directory

Creating symbolic links to the Acrobat Reader program lets you easily and correctly launch Acrobat Reader from any location. If you do not want to create these links—for example, if you do not want to override links set for a previous version of the software—skip to the next section, "Completing the software installation."

You can create symbolic links to the launch scripts immediately after installing the software by running the shell script /tmp/acroread.makelinks, which is created automatically during installation. If this script does not exist, you can instead run the two shell scripts located in <*installdir*>/AcroRead_1.0.1/installscripts/makelinks and <*installdir*>/DPSNXBasic_2.1.1/installscripts/makelinks.

For local installation: The default location of the symbolic links is /usr/bin. To accept this default, press Enter. To choose a different directory, type the full pathname.

For network installation: Type the full pathname of the directory where you want to install links to the launch script, such as /disks/apps/bin/irix5.3, and press Enter. Avoid placing the links in /usr/bin. (You must run the makelinks script as the superuser on the machine that contains the directory where the symbolic link is to be made.)

To create symbolic links:

1 Verify that you are logged in as the superuser (root account), and run the script that creates symbolic links:

```
# /tmp/acroread.makelinks
```

Caution: *The new symbolic links may overwrite existing files. The* makelinks *script prompts you before it overwrites any files and asks for your approval. If you have any doubts about overwriting a file, type* **No** *and contact your system administrator.*

2 Follow the instructions that appear on your screen. After the symbolic links are created, a message appears indicating that you have successfully created the links to the launch script.

Completing the software installation

After installing the software, remove the /tmp/acroread.makelinks file, and then exit from the root login:

```
# rm /tmp/acroread.makelinks
# exit
```

INTEGRATING ICONS INTO THE INDIGO MAGIC DESKTOP

To integrate the Acrobat Reader icons into your Indigo Magic desktop, you need to run an additional script.

To integrate the icons into the desktop:

1 After opening a shell window, become the superuser (root account):

```
% su root
Password: <root_password>
```

2 Locate the icon installation script and run it:

```
# cd <installdir>/AcroRead_1.0.1/desktop
# ./deskinstall
```

3 Exit from Indigo Magic and then restart Indigo Magic for the changes to take effect.

LAUNCHING ACROBAT READER

To launch Acrobat Reader, begin by logging in as yourself.

If you created symbolic links, and the launch script directory is in your PATH, you can start Acrobat Reader by typing:

```
% acroread
```

If you did not create symbolic links to the launch scripts, type the following command to start the Acrobat Reader (the default value for <*installdir*> is /usr/adobe):

```
% <installdir>/AcroRead_1.0.1/bin/acroread
```

To launch Acrobat Reader so that it appears as an icon on your desktop, add the iconic parameter:

```
% acroread -iconic
```

To view one or more files, give the filenames as command-line parameters. For example, to view /share /docs/annual_report.pdf and /user/bob/Schedule.pdf, enter:

```
% acroread /share/docs/annual_report.pdf /user/bob/Schedule.pdf
```

COMMAND-LINE PRINTING

You can print PDF files to the default printing by typing:

```
% acroread -print sample.pdf
```

To print the file sample.pdf to the printer named laserprinter, type:

```
% acroread -print sample.pdf -Plaserprinter
```

To pipe a PDF file into acroread and print it, type:

```
% cat sample.pdf | acroread -print
```

CONVERTING PDF TO POSTSCRIPT

You can convert PDF files to PostScript files from the command line.

To pipe a PDF file through standard input into Acrobat Reader, convert it to PostScript and then send it to a file:

```
% cat sample.pdf | acroread -toPostScript > sample.ps
```

To convert one or more PDF files, such as Sample1.pdf and Sample2.pdf, into PostScript files and place these PostScript files into the directory <*dir*>, type:

```
% acroread -toPostScript Sample1.pdf Sample2.pdf <dir>
```

To convert a series of files expressed as both a PDF filename and a corresponding PostScript filename (or pairs), type:

```
% acroread -toPostScript -pairs file1.pdf file1.ps ...
```

ACROBAT READER INSTALLED FILES

The Easy Installation and Custom Installation scripts install the Acrobat Reader program and related files in an installation directory. The default location of the installation directory is /usr/adobe. The installed files are listed below:

<*installdir*>/	/usr/adobe by default
AcroRead_1.0.1/	Main Reader directory
README	File containing orientation information and release notes
LICENSE	File containing the Electronic End User License Agreement
bin/	Directory containing the acroread launch script
custom/	Directory containing site-configurable files
desktop/	Directory containing files for desktop integration
doc/	Directory containing Reader PDF documents
exec/	Directory containing executables. Do not run executables directly. (Use launch script instead.)
fonts/	Directory containing bundled fonts
include/	Directory containing support files used at runtime
installscripts/	Directory of installation-related scripts
lib/	Directory containing support files used at runtime
man/	Directory containing Reader manual pages
DPSNXBasic_2.1.1/	Directory containing Display PostScript NX files

MOVING ACROBAT READER

You can move Acrobat Reader or Display PostScript NX after installation as long as you move the entire directory structure. Changing the names or relative locations of any files or directories within <*installdir*>/AcroRead_1.0.1 will probably cause problems.

***Note**: After you move a product you need to rerun the* makelinks *script located in the* installscripts *directory.*

Acrobat Reader has launch scripts that determine where the application is located on the network (that is, the value of <*installdir*>). If the logic that attempts to determine <*installdir*> fails, you can tell the application where it is installed via environment variable ACROREAD_HOME.

For example, if Acrobat Reader is installed in /apps/AcroRead_1.0.1, you could set ACROREAD_HOME to the value /apps/AcroRead_1.0.1 before launching the product. Alternatively, you could also use the Acrobat Reader launch script command-line option -e ACROREAD_HOME=<*directory*>.

REMOVING ACROBAT READER SOFTWARE

You can remove the Acrobat Reader software by manually deleting the files and directories that were created during the installation procedure.

1 As the superuser (root account), enter the following commands to remove Reader and Display PostScript NX from the installation directory (/usr/adobe by default):

```
# cd <installdir>
# rm -rf AcroRead_1.0.1 DPSNXBasic_2.1.1
```

2 To remove the symbolic link to the launch scripts, delete the files /usr/bin/acroread and /usr/bin/dpsnx.agent:

```
# cd /usr/bin
# rm acroread dpsnx.agent
```

***Note**: Display PostScript NX is a shared resource that is sometimes required by other applications, such as Adobe Illustrator™, Adobe Photoshop™, or Adobe Type Installer. Delete Display PostScript NX only if you have no other applications that require it.*

MAKING ACROBAT READER AND THE X SERVER AWARE OF INSTALLED FONTS

One of Acrobat's key features is font substitution. If a document requires a font that is not installed, Acrobat creates a substitute font that matches the size and the appearance of the original font. Although font substitution is entirely satisfactory for most situations, for optimal performance and accuracy, whenever possible, use the real font instead of a substitute font.

To achieve optimal font performance and accuracy, Acrobat Reader and its X server must be aware of all fonts installed on your system. By default, Acrobat Reader is aware of only those fonts pointed to by *.upr files in the <*installdir*>/AcroRead_1.0.1/fonts, /usr/psres, and $HOME/psres directories.

Note: *.upr *files (for example,* PSres.upr*) are files that describe the PostScript resources installed on your system, such as PostScript Type 1 fonts. Because these files have a special syntax that must be followed in order to work properly, they are usually created using the* makepsres *utility included with the X server. For more information on this utility, see the* makepsres *man page and the documentation that accompanies the server.*

To make Acrobat Reader aware of *.upr files installed in directories different from the ones listed above, you have two alternatives:

- If the *.upr files apply to all Acrobat Reader users, become the superuser and edit <*installdir*>/AcroRead_1.0.1/custom/SITE_PSRESOURCEPATH to add the directories to those listed in the file. (Comments in the file describe the changes you should make.)

- Change the value of the environment variable PSRESOURCEPATH for each user. For example, to specify that directories /apps/wordtool/fonts and /projects/fonts contain *.upr files, set PSRESOURCEPATH as follows, depending on your shell:

C-shell users:

```
setenv PSRESOURCEPATH /apps/wordtool/fonts:/projects/fonts::
```

Bourne or Korn shell users:

```
PSRESOURCEPATH = /apps/wordtool/fonts:/projects/fonts::
export PSRESOURCEPATH
```

Caution: *The double colon (::) tells PostScript-based applications to look for resources in the standard locations in addition to the specific directories. Failure to include this symbol may cause problems.*

You should insert the definition of PSRESOURCEPATH into the appropriate startup file (.cshrc, .login, or .profile) and then restart the Window System so that the new value is in effect for all windows on the desktop.

TROUBLESHOOTING

This section describes Acrobat Reader error messages and provides general troubleshooting information.

Error: `acroread -command not found`

Cause: Either the Acrobat Reader launch script is not on your PATH (because the acroread.makelinks script was not run after a Custom Installation) or the launch script you are trying to execute is actually a symbolic link to a file that does not exist.

Solution: Locate the file that is launching the application by typing the command `which acroread` in a UNIX shell. This command gives you the name of the file that is executed when you issue the acroread command.

Perform a long listing on (<*file*>) that executes Acrobat Reader:

```
% ls -l <file>
```

If the results indicate that <*file*> is actually a symbolic link to another file (<*file2*>), type the following:

```
% ls -l <file2>
```

Continue this process until you have a real file (not a symbolic link) or until you receive the message `<file> not found`. If you receive this message and Acrobat Reader was not installed locally, the network volume holding the Reader installation may be temporarily down or may be moved to a new location—or the Acrobat Reader distribution may have been moved or deleted so that symbolic links are pointing to an invalid location.

To resolve this problem either rerun <*installdir*>/AcroRead_1.0.1/installscripts/makelinks or reinstall the software, carefully following the instructions in this guide.

Error: `acroread: Permission denied`

Cause: One or more files have their permissions set incorrectly.

Solution: Examine the permissions on the Reader launch script to make sure you have proper execute privileges for <*installdir*>/AcroRead_1.0.1/bin/acroread.