

Pulsar

Welcome to Pulsar!

Satellite radio has come to your Mac, the way it was meant to be. With Pulsar, you can tune in to your online satellite radio account from a beautiful, easy-to-use client. Just enter your account info into Pulsar, and you'll be rocking in no time.

With Pulsar, you have full control over your satellite radio experience. Pause live radio, save your Favorite stations for fast access, view Now Playing information for all stations. Get back to enjoying radio!

Getting Started

We recommend having a quick read-through of the *Pulsar Manual*, accessible from Pulsar's Help menu, then diving right in. You can refer back to the full manual for assistance at anytime by accessing it from the Help menu.

What's New In Pulsar 2.3.4

- Pulsar now correctly follows the channel lineup provided by Sirius (eliminating incompatible channels).
- Track titles for non-playing stations should again work for Sirius Canada users.
- It's now possible to change channels from the background in Grid or Favorites view.

What's New In Pulsar 2.3

- **Pulsar now has full compatibility with The Iconfactory's Take Five (version 1.1 and higher).**
- Pulsar's Last.fm integration now requires tracks to be a minimum of 121 seconds to be scrobbled, in order to avoid scrobbing commercials.
- Pulsar now has AppleScript support for volume control as well as muting.
- Several other minor issues have been fixed.
- Pulsar now has preliminary support for the forthcoming Mac OS X 10.7 (Lion).
- Pulsar now requires Mac OS X 10.6 (Snow Leopard) or higher.

Requirements

- A Macintosh computer
- Mac OS X 10.6 or higher
- A SiriusXM (US), XM Canada Online or Sirius Canada Online account*

* These are paid services, each currently offering [free trials](#).

Installation and Removal

To install Pulsar, just drag it from your download folder to your Applications folder.

If you wish to remove Pulsar, simply place it in the Trash.

Purchasing Pulsar

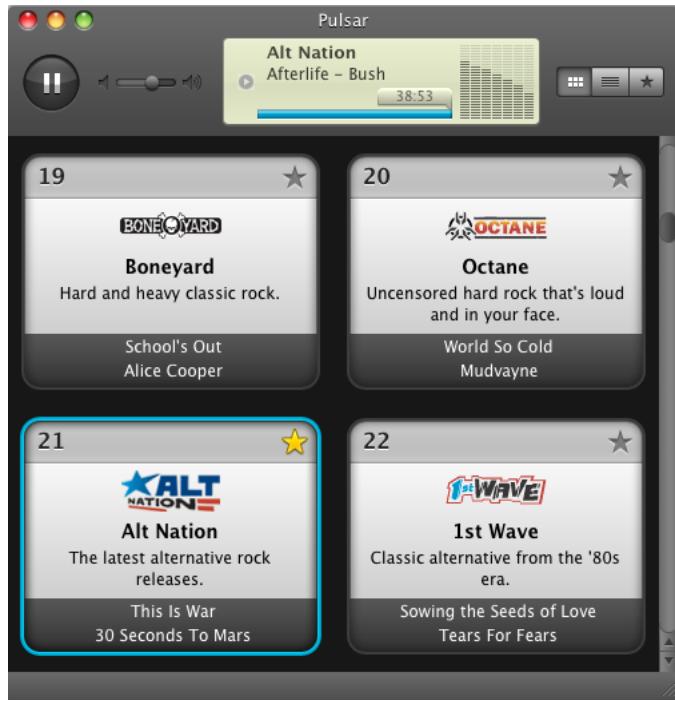
We provide a free trial of Pulsar for you to test. **During the trial, audio quality is degraded after twenty minutes of listening.** The full version of Pulsar can be unlocked with a license key purchased from our online store.

When you're ready, head over to <http://www.rogueamoeba.com/store/> to purchase Pulsar for just \$20.

Using Pulsar

Getting started with Pulsar is easy. Read on for information on the main Pulsar controls.

Pulsar's Main Window



Pulsar's Main window

Pulsar's Main window contains all of its essential controls, so listening to audio is a snap. When you open Pulsar, it will log in to your account, and download current station information.

In a few seconds, after the station information loads, you'll be able to start playing audio. To listen to a station, simply click anywhere on its listing.

In the screenshot above, you can see Pulsar in its default Grid view. Pulsar is tuned to channel 21, which is highlighted in the listings.

Pulsar has 3 main views, easily accessible from the Status area, the Window menu, or the keyboard. Select between Grid View, List View, or Favorites View, to see all listings with artwork, all listings in a more compact layout, or your selected favorites, respectively.

From all of the views, you can click the station listing to start streaming, and the Favorites button to toggle that station's status as a Favorite.

Status Area



Pulsar's Status Area

The Status Area shows information on what's currently playing. In the above screenshot, we see that Björk's "Jóga" is currently playing.

The stream can be [paused with the Pause button](#), and the volume slider will adjust local output volume.

Finally, by clicking the view selector on the right of the Status Area, you can toggle between the Grid, List and Favorites views.

Favorites

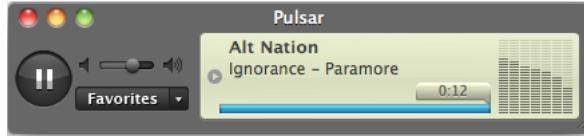


Pulsar's Favorites View

Pulsar's Favorites view shows only the stations you've marked as favorites, letting you avoid stations you don't play. To mark a station as a Favorite, just click the star in its listing – in the upper right of the tile or on the right side of the grid listing. To remove it from Favorites, just click the Star again.

You can also sort your Favorites, by dragging the gripper at the top of the grid, as seen in the screenshot above.

Mini Mode

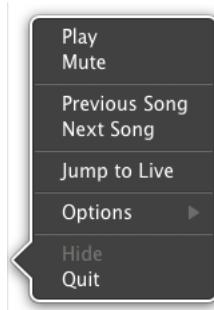


Pulsar's Mini-Mode

Pulsar's mini-mode provides a screen-saving interface to use in interacting with Pulsar. The playback controls are accessible, along with your favorites.

To put Pulsar in mini-mode, just hit the green Zoom (+) button in the upper-left of Pulsar's main window. Click again to pop back to full-size.

Dock Menu



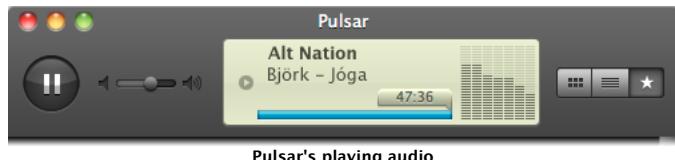
Pulsar's Dock Menu

With Pulsar's Dock menu, you can access playback controls even while Pulsar is hidden or in the background. Right-click or control-click the Pulsar icon in the Dock, and the Dock menu will appear.

Pausing Audio with Pulsar

With Pulsar 2, you're now able to pause live radio. Pausing playback builds up a history of up to 3 hours of audio. You can stop playback in the middle of a song to take a phone call or step away, then pick right back up when you return. Even better, build up a buffer of audio, then skip songs you don't want to hear.

Pausing



When Pulsar is playing audio, you'll see a status area similar to what's above. There's a Pause button on the far left, as well as the buffer shown in the LCD. The time bubble (currently reading 47:36) shows how far into the buffer playback is. By default, this will be at the right end, representing real-time.

To pause audio, just click the Pause button, or press the spacebar on your keyboard.



When paused, Pulsar will look like this. The Pause button has toggled to a Play button. Clicking it will cause audio to begin playing again. The time indicator in the buffer has also begun to move backwards, as new audio fills in ahead of the paused point.

You can navigate through the buffer in several ways:

Pressing the left or right arrow keys (\leftarrow and \rightarrow) will Jump Back or Jump Forward 10 seconds. Holding the Shift key while pressing the arrow keys will change these jumps to 60 seconds.

The Previous Song and Next Song commands, accessible via Command-[and Command-], attempt to get you to the previous or next song. This is done by looking at the track title data provided by Sirius or XM. Because this data is not always perfectly aligned with a song switching, you may need to combine these commands with the Jump commands (above) to get to the exact right point.

The Jump to Live command, activated with Command-L, will restart live playback, by jumping to the end of the pause buffer.

Finally, you can click anywhere in the buffer to jump to that location, or click and drag the indicator to move to a specific time.

Recording Audio from Pulsar

When coupled with [Audio Hijack Pro](#), audio from Pulsar can be recorded for later listening. Save audio into iTunes or listen to it on the go with an iPod or iPhone.



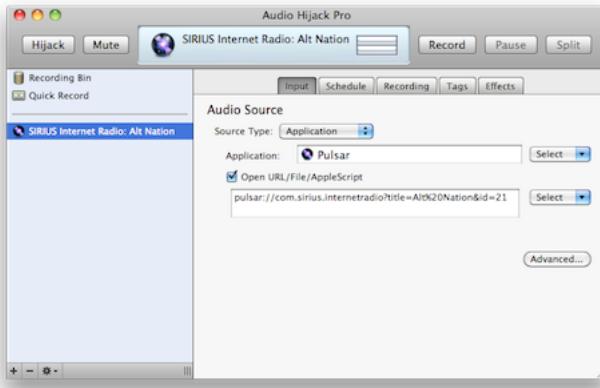
Audio Hijack Pro

This page assumes you have Audio Hijack Pro installed. If not, [check it out](#).

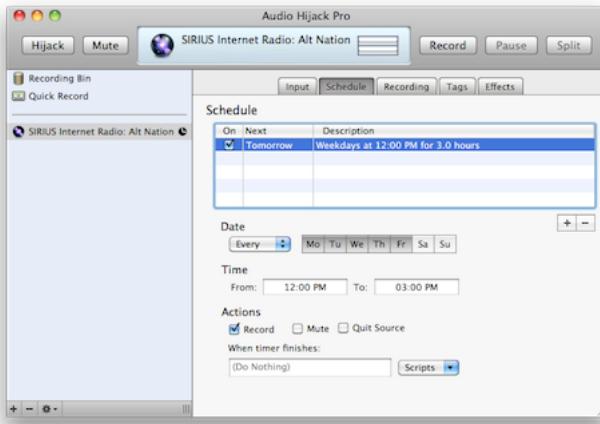
Recording



To save audio for later listening, just right-click (or control-click) a station in Pulsar and you'll see a menu like the one above. Select it, and a new session will be created in Audio Hijack Pro.



With this session, you can manually hijack Pulsar and have it tune to the specified station (Alt Nation in this example). More likely, however, you'll want to set a timed recording. To do this, click the Schedule tab in Audio Hijack Pro.



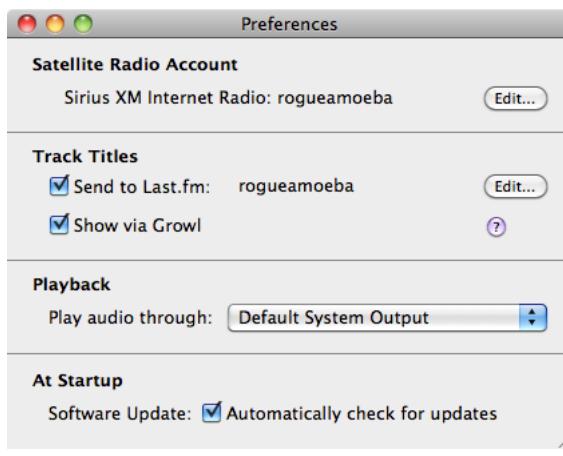
In the Schedule tab, you can set up Audio Hijack Pro to record Pulsar at a specific time. In the example above, Audio Hijack Pro will record Pulsar playing the Alt Nation channel from 12 to 3 PM on weekdays. Best of all, this will all happen automatically. Audio Hijack Pro will launch, then launch Pulsar and tune it as specified, and finally, record the audio. Enjoy!

Licensing

Don't forget, if you own a license for Audio Hijack Pro, you get Pulsar for free. If you don't own a license for either application yet, you just need to buy Audio Hijack Pro, and you'll get a complimentary Pulsar license. For full details, see [this page](#).

Preferences

Pulsar's preferences can be accessed from the Pulsar menu.



Pulsar's Preferences window

Satellite Radio Account: This section shows the accounts being used to access your satellite radio account. Click Edit... to launch the Account Assistant and adjust your account.

Track Titles:

Send to Last.fm: If you use [Last.fm](#), enter your account information by clicking the Edit... button. With this option on, listening information will be scrobbled to Last.fm.

Show via Growl: If you have Growl installed, turn on this check box to have Pulsar display track information.



A Pulsar Growl notification

To adjust your Growl settings, go to the *Apple Menu* -> *System Preferences* and click the Growl preference in the Other section.

Not familiar with Growl?

Growl is a system for Mac OS X which shows notifications from many applications. Visit the [Growl](#) homepage for more information.

If you do not have Growl installed, Pulsar does *not* install it automatically. To install Growl manually, just download and run the installer, from [their site](#).

If you ever wish to remove Growl from your Mac, see [this link](#).

Play audio through: This setting determines through which system audio output device Pulsar will play.

Automatically check for software updates: With this option activated, Pulsar compares itself to the most current version available from our server and alerts you when a new version is available. Leave this on to stay up-to-date.

Purchasing Pulsar

Quick Link: To buy a license key for Pulsar, visit our [online store](#).

Why should I buy Pulsar?

Put simply, you should buy Pulsar because it isn't free – we give you a chance to test out the program and all its features before you buy it. It's like test driving a car, for as long as it takes you to decide.

In trial mode, all of Pulsar's features are available to try, but it won't work for full-time use. Until you purchase, audio quality is degraded after twenty minutes of playback.

If you use Pulsar and find you like it, please purchase a license key – support the software you use and love!

What does Pulsar cost and where do I buy it?

Pulsar is available for purchase the world over for just \$20. To purchase your license key, just visit <http://www.rogueamoeba.com/store/>.

After Purchase

How does purchasing work?

When you purchase through our store, you'll immediately receive a license key in your browser, as well as via email. This key will allow you to unlock the full version of Pulsar. Simply enter your key into Pulsar as instructed, and you'll be all set.

What's your upgrade policy?

Rogue Amoeba doesn't have a stated upgrade policy, just a great track record. Since 2002, we've provided hundreds of free updates across our entire product line. These updates have fixed bugs and added new features. If we add substantial new functionality, we may charge an upgrade fee. However, we do not make most of our income from upgrades, and we provide nearly all updates free of charge. Buy with confidence!

What's your refund policy?

All Rogue Amoeba products are available as demos for an evaluation prior to purchase. We believe that no customer should have to buy software in order to find out how well it works. Our software can be fully evaluated with no limitations in capabilities, prior to purchase. Customers are **strongly encouraged** to take advantage of these trials prior to purchase. You may also seek any needed technical support from us – we answer support emails rapidly and responsively for current and potential customers alike.

If you would like a refund, please contact hello@rogueamoeba.com within 14 days of your purchase. Because we cannot recover the license key that was sold, refunds are issued on a case-by-case basis.

Etcetera

We now present the exciting conclusion to the Pulsar Manual!

Contact Information – How to get in touch with Rogue Amoeba.

User License – Let your lawyer explain it all to you.

Acknowledgements – We couldn't have done it without them.

Contact Information

Pulsar Homepage

<http://www.rogueamoeba.com/pulsar/>

Rogue Amoeba Homepage

<http://www.rogueamoeba.com>

Pulsar Support

Rogue Amoeba Mailing List

Join the Rogue Amoeba low-traffic announcement list. There's no spam, EVER. It's as simple as that.

<http://www.rogueamoeba.com/company/lists/maclist.php>

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If you would like a refund, please contact hello@rogueamoeba.com within 14 days of your purchase. Because we cannot recover the license key that was sold, refunds are issued on a case-by-case basis.

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We want you to be happy, so we enable you to test drive our software. If you have any questions, let us know before you buy, we're happy to help. Refunds may be issued within 14 days of purchase, at our discretion.

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Be safe when you use the software. Be aware that it's simply a tool designed to make your life better. Don't use it to do illegal or evil things. If you do, be ready to take responsibility for your own actions.

Pulsar Acknowledgements

Portions of this Rogue Amoeba software may utilize the following copyrighted material, the use of which is hereby acknowledged. Source code and patches are made available at <http://www.rogueamoeba.com/sources/> where required.

FFmpeg: <http://www.ffmpeg.org/> (LGPL v2.1)

LIVE555: <http://www.live555.com/> (LGPL v2.1)

librtmp: <http://rtmpdump.mplayerhq.hu/> (LGPL v2.1)

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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Licenses are intended to guarantee your freedom to share and change
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this license or the ordinary General Public License is the better
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this license; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this license.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this license, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this license, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this license.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this license to a given copy of the Library. To do this, you must alter all the notices that refer to this license, so that they refer to the ordinary GNU General Public License, version 2, instead of to this license. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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