

Download and Installation

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1. System requirements

Operating system: any operating system running Java will do.

Java Runtime Environment (JRE): FrAid was built and tested with jdk1.5. You can get Java JRE (or JDK) from [Sun's website](#), it is free.

2MB of free disk space for the binaries and sources.

2. Download a FrAid Installer

Note:

On some browsers you need to SaveTargetAs...

FrAid Installer	Description	Size(KB)
install_fraid_all.jar	FrAid will be installed as a single jar. A FrAid directory will be created under the directory you choose. This is the recommended installation if you are going to use BeanShell, Groovy, Jython or any other scripting environment.	416
install_fraid_modular.jar	FrAid will be installed as a core jar file plus separate jar files for each module and plugin. A FrAid directory will be created under the directory you choose for installation. This is the recommended installation if you need maximum flexibility over what modules and plugins you need.	408

Table 1: Available installers:

3. Installation

1. From the directory where you downloaded your FrAid installer run (on Windows systems you can just doubleclick):

```
java -jar install_fraid_xxx.jar
```

""

2. A file chooser pops up where you can select directory to install FrAid (keep in mind that the installer will create a FrAid subdirectory under the directory you select).
3. A simple console opens which shows the details of the installation. You can close it after it is finished. If there are any problems during the installation a message will be printed there as well.

Note: In order to protect files you may have created (such as scripts, plugins, images, midi) FrAid will not install on top of an existing installation. To install FrAid again either pick a new location for installation, or first delete the old installation.

4. How to run FrAid for the first time

- **Unix** systems:
 - during installation a file `/home/your_dir/FrAid/fraid.sh` was created. Make it executable with:

```
chmod 755 /your_dir/FrAid/fraid.sh
```
 - run **fraid.sh -in system** to use the system's console, or **Fraid/fraid.sh** to use FrAidConsole
- **Windows** systems:
 - during installation a `your_dir\FrAid\fraid.bat` was created (see the note above on the differences between different systems)
 - run **\FrAid\fraid -in system** to use the system's console or **your_home_dir\FrAid\fraid** to use FrAidConsole
- **Emacs** - this is a great option for running FrAid. Emacs gives you command-line editing, command-line history and parenthesis matching, among other things:
 - Start emacs
 - Type **M-x shell** (on a PC keyboard M is in fact Alt)
 - Depending on the system, run **your_home_dir/FrAid/fraid.sh**, or **your_home_dir\FrAid\fraid.bat**
- See other examples and a complete list of the command-line options.

Note:

In your installation directory there is a file named `preload.frd` which contains usefull function definitions which will be preloaded to your system if you are starting it from `fraid.sh` or `fraid.bat`. You can place there other function or constant definitions you want preloaded at start time.

5. How to uninstall FrAid

Just delete the directory `FrAid` . Everything is there so no traces will remain on your

system.

6. How to move FrAid to a new location

You can place or copy the FrAid directory at any location you want, and you may have as many of those on your system as you like.

7. Other downloadables

Binary	Description	Size(KB)
fraid_core.jar	This is not an installer. You can download this file and place it anywhere you want. It contains only the parser and mathematical and utility functions. You can run FrAid like this: <code>java -cp afraid_core.jar org.fraid.interpreter.Fr</code> . No graphics or the FrAid GUI consoles are supported. Graphical capabilities can be added if you only copy the graphics module and the required plugins in the same directory as this file. This is the recommended way to use FrAid if you only need mathematical scripting and don't need graphics (or handle the graphics from your application).	144
frd_gen_code.jar	This is not an installer. The recommended way to use this file is to download it and place it in the bin directory of your FrAid installation. For instructions how to use it see how to generate code for library functions and plugins .	163
install_fraid_src.jar	FrAid sources installer. Works similarly to the binaries installers in the first table. You can install the sources either	500

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	standalone or as a part of the regular FrAid installation. If you install it standalone a FrAid subdirectory will be created under the directory you have chosen (if you want to install it in the same directory as your regular FrAid installation aim at the parent directory of the already installed FrAid).	
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Note:

If you have installed FrAid using some of the installers above most probably you don't need to download the plugins bellow. You only need the plugins from this table if some of them is newly developed and wasn't packaged with the regular distribution (in which case it will be marked with **NEW**). To check what plugins you already have installed, run FrAid and from the console execute `printPlugins()`; If you need a particular plugin, just download it in your installation's bin directory and FrAid will find it next time you start the application.

Plugin	EntryPoint	Description	Size(KB)
plugin_fraid_aggregator.jar	aggregation()		5.5
plugin_fraid_cobweb.jar	cobweb()		6.4
plugin_fraid_color3d.jar	color3D()		5.4
plugin_fraid_spectrum.jar	spectrum()		7.2
plugin_fraid_function.jar	plot()		5.9
plugin_fraid_iter_fract.jar	iterFract()		11.9
plugin_fraid_julia.jar	julia()		6.7
plugin_fraid_mandelbrot.jar	mandelbrot()		7.1
plugin_fraid_map_plot.jar	plotMap()		5.5
plugin_fraid_newton.jar	newton()		6.8
plugin_fraid_orbit2.jar	orbit2()		6.9
plugin_fraid_orbit.jar	orbit()		6.4
plugin_fraid_phase.jar	phase()		6.7
plugin_fraid_plot2.jar	plot2()		6.5
plugin_fraid_plot3d.jar	plot3D()		9.5

'''

plugin_fraid_plot3f.jar	plot3F()		6.3
plugin_fraid_plot3.jar	plot3()		7.0
plugin_fraid_transform3.jar	transform3()		7.0
plugin_fraid_transform.jar	transform		7.6

Table 2: Available plugins:

8. How to compile FrAid

1. Download the sources (see above)

2.

```

cd development      #from FrAid
make all            #providing you have make and jdk
installed on your system
java -cp . org.fraid.interpreter.Fraid -in fraid

```

'''