

Building on Linux

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Building a FireBreath Plugin on Linux

The following describes the process to build the example FireBreath plugin on Linux; pretty much the same process applies to building your own plugin - differences should be noted.

See Also: [FireBreath Tips: Working with Source Control](#)

Requirements

- CMake version 2.8: <http://www.cmake.org/cmake/resources/software.html>
- libgtk2.0-dev (if you need GUI/drawing support)
- Git: <http://git-scm.com/>

In Debian:

```
apt-get install cmake libgtk2.0-dev git
```

In Fedora:

```
yum install cmake gtk2-devel git
```

Get the source

First thing is first; get the source code.

To get a copy of the source, see the [download page](#).

Generate the example project files

To generate the project files execute:

```
./prepmake.sh examples
```

The project build files will all be generated into the `buildex/` directory under the project root.

Generate your own project files

If you have created your own project in the `projects/` directory, you can build it by running the same command as for example projects, but (this will be a shocker) without "examples".

To generate the project build files:

```
./prepmake.sh
```

The project build files will all be generated into the `build/` directory under the project root - this only has to be done after either adding or generating another FireBreath project.

Build the Plugin

The example plugin can be built by changing to the directory `buildex` and executing:

```
make
```

To build your own project, change to the directory `build/` and execute:

```
make
```

Debug Builds

You can pass arguments to the `premake` command - see the full list at [Prep Scripts](#). For example:

```
./premake.sh examples -D CMAKE_BUILD_TYPE="Debug"  
cd buildex  
make
```

Removing the libgtk2.0-dev dependency

If you plan to do drawing, then `libgtk2.0-dev` is required because that's what the browser uses to draw. If you aren't planning to draw, you can add the following line to `PluginConfig.cmake`:

```
set(FB_GUI_DISABLED 1)
```

Make the plugin accessible

Most browsers on Linux look for NPAPI plugins in either `/usr/lib/mozilla/plugins` or `~/.mozilla/plugins` (Firefox, Chrome, Chromium, Arora); copy the plugin file to one of those locations -

```
cp buildex/bin/FBTestPlugin/npFBTestPlugin.so ~/.mozilla/plugins/.
```

You can copy the plugin shared object file to either of those locations, easiest is most likely `~/.mozilla/plugins` as root privileges are not required. Alternately you could use a link.

Open in your browser and play with it

Open the file `buildex/projects/FBTestPlugin/gen/FBControl.htm` in your preferred browser

Use Jash or firebug (or whatever) to make calls on the plugin. For supported calls, check out `projects/TemplatePlugin/MathAPI.cpp`.

A few JS commands to try:

```
plugin().echo("echo this string!")  
"Echoing: echo this string!"
```

```
plugin().valid  
true
```