RetroShare: Writing Plugins

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October 16, 2013

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1 Introduction

So you have been using RetroShare for a while, and as a computer programmer, you want to add your favourite plugin to share with others.

Where to start?

Well, that is the purpose of this guide. It will provide a guide for developing it and getting it working with RetroShare with the least amount of effort possible.

This was written as a plugin was being developed, so the screen shots displayed are for that plugin.

2 Important Things

2.1 Language

RetroShare is written in c++ with some parts in c. You need to have a good understanding of c++.

2.2 Tools and Libraries

2.2.1 QtCreator

QtCreator is a free tool that can be used to develop the project, as well as editing, and compiling to create a library as either a .so for Gnu/Linux or .dll for Windows or . for Mac.

2.2.2 Editor

Many programmers use vim (from http://www.vim.org/) with some addons to make editing easier and faster, especially on older, slower computers.

2.2.3 Version Control

RetroShare uses svn for its version control. If you are compiling your own, you will understand the use of the svn up command on Gnu/Linux.

For a project like this, git and https://github.com is a good option. You will need to create an account if you don't have one, and create a repository to store your code in. This allows you to keep an offsite copy of your work, as well as allowing for collaboration. There are many useful tutorials on using git, but essentially it is as follows:

1. Login or create an account at https://github.com.

- 2. Create a new repository (best to use the same name as your plugin name).
- 3. cd into the plugin folder you are working with
- 4. create a README.md file and edit the contents of it.
- 5. Initialise your local repository: git init
- 6. Add the file you jsut created to your repository: git add README.md
- 7. Commit the changes made into your repository: git commit -m "first commit"
- 8. Map your repository to the remote repository using the command: git remote add origin https://github.com/[your user name]/[your plugin].git
- 9. Now add any other files you have created. To add a folder, just use the folder name, and will track all the files.
- 10. Now copy your repository to the remote : git push -u origin master
- 11. Now check the status of local git: git status

2.3 Structure

It is possible to put all the files in one folder of the plugin name so that it is $^{\sim}$ /retroshare/plugins[your plugin] as shown in

As a suggestion, establish some folders in you plugin to store various parts of your project into (refer to)

You will notice a folder .git - this is for versioning control - and will be explained later.

3 The Process

4 Documentation

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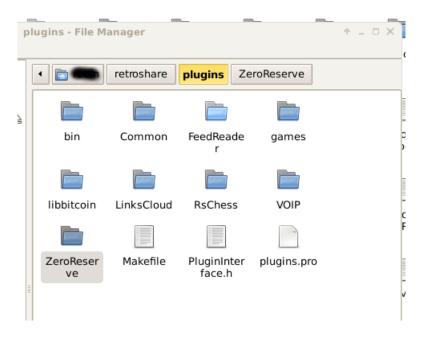


Figure 1: Folder Structure For Plugin

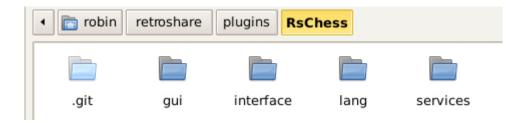


Figure 2: Sub-folders for the plugin (suggested)