# Contributing

This repo provides the RLS client for vscode built using the Language

Server protocol.

This file contains information for building, running, and debugging the plugin.

If you just want to use it, you can download it from the VSCode marketplace. See

[README.md](README.md) for more info.

## Building and Running

Git clone or download the files and use `npm install` in the directory to

download and install the required modules.

Next, without installing the client as a regular VSCode extension, open the

client folder in VSCode. Go to the debugger and run "Launch Extension". This

opens a new instance of VSCode with the plugin installed.

### Via Rustup

This is the default, if you don't set any of the environment variables below,

the extension will run (and install) the RLS via rustup. You can install rustup

from https://www.rustup.rs/.

### Via Source

Check out the RLS source code, following the [directions](https://github.com/rust-lang-nursery/rls/blob/master/contributing.md).

Point the `rust-client.rlsPath` setting at the RLS executable (e.g.,

`/rls/target/release/rls`). Note that you must include the name of the

executable, not just the path.

Note that this used to be possible via `rls.path` which is deprecated and `rls.root`

which has been removed.

## Logging

You can log to the output panel in VSCode by setting `rust-client.revealOutputChannelOn` to

`info`. You can log to a file in the project directory by setting `rust-client.logToFile`

to `true`. You won't see much logging unless you modify your RLS.

## Installing in VSCode

If you'd like to test on multiple projects and already have the extension

working properly, you can manually install the extension so that it's loaded

into VSCode by default. To do so, run the following:

```

npm run installDevExtension

```

See the defenition of `installDevExtension` in `package.json` and [VSCode docs](https://code.visualstudio.com/Docs/extensions/example-hello-world#\_installing-your-extension-locally)

for more.

## Troubleshooting

### Error messages containing `tsc -watch -p ./` or `ENOSPC`

```

> npm ERR! Failed at the rls\_vscode@0.0.1 compile script 'tsc -watch -p ./'.

> npm ERR! Make sure you have the latest version of node.js and npm installed.

> npm ERR! If you do, this is most likely a problem with the rls\_vscode package,

> npm ERR! not with npm itself.

```

run

```

> npm dedupe

```

see http://stackoverflow.com/a/31926452/1103681 for an explanation

if that doesn't work, run

```

> echo fs.inotify.max\_user\_watches=524288 | sudo tee -a /etc/sysctl.conf && sudo sysctl -p

```