# Contributing to Node-RED

We welcome contributions, but request you follow these guidelines.

- [Raising issues](#raising-issues)

- [Feature requests](#feature-requests)

- [Pull-Requests](#pull-requests)

- [Contributor License Agreement](#contributor-license-agreement)

This project adheres to the [Contributor Covenant 1.4](http://contributor-covenant.org/version/1/4/).

By participating, you are expected to uphold this code. Please report unacceptable

behavior to the project's core team at team@nodered.org.

## Raising issues

Please raise any bug reports on the relevant project's issue tracker. Be sure to

search the list to see if your issue has already been raised.

A good bug report is one that make it easy for us to understand what you were

trying to do and what went wrong.

Provide as much context as possible so we can try to recreate the issue.

If possible, include the relevant part of your flow. To do this, select the

relevant nodes, press Ctrl-E and copy the flow data from the Export dialog.

At a minimum, please include:

- Version of Node-RED - either release number if you downloaded a zip, or the first few lines of `git log` if you are cloning the repository directly.

- Version of Node.js - what does `node -v` say?

## Feature requests

For feature requests, please raise them on the [forum](https://discourse.nodered.org).

## Pull-Requests

If you want to raise a pull-request with a new feature, or a refactoring

of existing code, it may well get rejected if you haven't discussed it on

the [forum](https://discourse.nodered.org) first.

All contributors need to sign the JS Foundation's Contributor License Agreement.

It is an online process and quick to do. You can read the details of the agreement

here: https://cla.js.foundation/node-red/node-red.

If you raise a pull-request without having signed the CLA, you will be prompted

to do so automatically.

### Coding standards

Please ensure you follow the coding standards used through-out the existing

code base. Some basic rules include:

- all files must have the Apache license in the header.

- indent with 4-spaces, no tabs. No arguments.

- opening brace on same line as `if`/`for`/`function` and so on, closing brace

on its own line.