Contributing to Angular DevTools

We would love for you to contribute to Angular DevTools and help make it even better than it is today! As a contributor, here are the guidelines we would like you to follow:

- Question or Problem?
- Issues and Bugs
- Feature Requests
- Submission Guidelines
- Coding Rules
- Commit Message Guidelines

Got a Question or Problem?

Please, do not open issues for the general support questions as we want to keep GitHub issues for bug reports and feature requests. You've got much better chances of getting your question answered on StackOverflow where the questions should be tagged with tag angular-devtools.

StackOverflow is a much better place to ask questions since:

- there are thousands of people willing to help on StackOverflow
- questions and answers stay available for public viewing so your question / answer might help someone else
- StackOverflow's voting system assures that the best answers are prominently visible.

To save your and our time we will be systematically closing all the issues that are requests for general support and redirecting people to StackOverflow.

If you would like to chat about the question in real-time, you can reach out via our gitter channel.

Found an Bug?

If you find a bug in the source code, you can help us by <u>submitting an issue</u> to our <u>GitHub Repository</u>. Even better, you can <u>submit a Pull Request</u> with a fix.

Missing a Feature?

You can *request* a new feature by <u>submitting an issue</u> to our GitHub Repository. If you would like to *implement* a new feature, please submit an issue with a proposal for your work first, to be sure that we can use it. Please consider what kind of change it is:

- For a **Major Feature**, first open an issue and outline your proposal so that it can be discussed. This will also allow us to better coordinate our efforts, prevent duplication of work, and help you to craft the change so that it is successfully accepted into the project.
- Small Features can be crafted and directly submitted as a Pull Request.

Submission Guidelines

Submitting an Issue

Before you submit an issue, please search the issue tracker, maybe an issue for your problem already exists and the discussion might inform you of workarounds readily available.

We want to fix all the issues as soon as possible, but before fixing a bug we need to reproduce and confirm it. In order to reproduce bugs we will systematically ask you to provide a minimal reproduction scenario by providing a

project which breaks Angular DevTools. Also make sure that you list:

- version of Angular DevTools used
- version of Angular used
- 3rd-party libraries and their versions
- and most importantly a use-case that fails

You can file new issues by filling out our new issue form.

Submitting a Pull Request (PR)

General Guidelines

Before you submit your Pull Request (PR) consider the following guidelines:

- Search GitHub for an open or closed PR that relates to your submission. You don't want to duplicate effort.
- Fork the angular/angular repo.
- In your forked repository, make your changes in a new git branch:

```
git checkout -b my-fix-branch master
```

- Create your patch, including appropriate test cases.
- Follow our Coding Rules.
- Commit your changes using a descriptive commit message that follows our <u>commit message conventions</u>.
 Adherence to these conventions is necessary because release notes are automatically generated from these messages.

```
git commit -a
```

Note: the optional commit -a command line option will automatically "add" and "rm" edited files.

• Push your branch to GitHub:

```
git push origin my-fix-branch
```

- In GitHub, send a pull request to angular:master.
- If we suggest changes then:
 - Make the required updates.
 - Re-run the Angular DevTools test and lint suites to ensure tests are still passing and you're following the coding style.
 - o Rebase your branch and force push to your GitHub repository (this will update your Pull Request):

```
git rebase master -i
git push -f
```

That's it! Thank you for your contribution!

After your pull request is merged

After your pull request is merged, you can safely delete your branch and pull the changes from the master (upstream) repository:

• Delete the remote branch on GitHub either through the GitHub web UI or your local shell as follows:

```
git push origin --delete my-fix-branch
```

• Check out the master branch:

```
git checkout master -f
```

• Delete the local branch:

```
git branch -D my-fix-branch
```

• Update your master with the latest upstream version:

```
git pull --ff upstream master
```

Coding Rules

To ensure consistency throughout the source code, keep these rules in mind as you are working:

- All features or bug fixes **must be tested** by one or more specs (unit-tests).
- We follow [Google's JavaScript Style Guide][js-style-guide].

Commit Message Guidelines

We have very precise rules over how our git commit messages can be formatted. This leads to **more readable messages** that are easy to follow when looking through the **project history**. But also, we use the git commit messages to **generate the Angular change log**.

Commit Message Format

Each commit message consists of a **header**, a **body** and a **footer**. The header has a special format that includes a **type**, a **scope** and a **subject**:

```
<type>(<scope>): <subject>
<BLANK LINE>
<body>
<BLANK LINE>
<footer>
```

The **header** is mandatory and the **scope** of the header is optional.

Any line of the commit message cannot be longer 100 characters! This allows the message to be easier to read on GitHub as well as in various git tools.

Footer should contain a closing reference to an issue if any.

Samples: (even more samples)

```
docs(changelog): update change log to beta.5

fix(release): need to depend on latest rxjs and zone.js

The version in our package.json gets copied to the one we publish, and users need the latest of these.
```

Revert

If the commit reverts a previous commit, it should begin with revert: , followed by the header of the reverted commit. In the body it should say: This reverts commit <hash>. , where the hash is the SHA of the commit being reverted.

Type

Must be one of the following:

- feat: A new feature
- fix: A bug fix
- docs: Documentation only changes
- **style**: Changes that do not affect the meaning of the code (white-space, formatting, missing semi-colons, etc)
- refactor: A code change that neither fixes a bug nor adds a feature
- perf: A code change that improves performance
- test: Adding missing tests or correcting existing tests
- build: Changes that affect the build system or external dependencies (example scopes: gulp, broccoli, npm)
- ci: Changes to our Cl configuration files and scripts (example scopes: Travis, Circle, BrowserStack, SauceLabs)

Scope

The scope could be anything specifying place of the commit change. For example frontend, backend, etc.

Subject

The subject contains succinct description of the change:

- use the imperative, present tense: "change" not "changed" nor "changes"
- don't capitalize first letter
- no dot (.) at the end

Body

Just as in the **subject**, use the imperative, present tense: "change" not "changed" nor "changes". The body should include the motivation for the change and contrast this with previous behavior.

Footer

The footer should contain any information about **Breaking Changes** and is also the place to reference GitHub issues that this commit **Closes**.

Breaking Changes should start with the word BREAKING CHANGE: with a space or two newlines. The rest of the commit message is then used for this.

A detailed explanation can be found in this [document][commit-message-format].