Emacs café

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## Setting up Emacs for JavaScript (part #2)

May 9, 2017 • Nicolas Petton

This is the second part of my series of articles describing how to make Emacs a great JavaScript development environment. This time we'll focus on getting good auto-completion with type inference.

If you haven't read it yet, you should jump to the first post first to get things started.

## Setting up Tern & company-mode for autocompletion

Tern is a great tool once setup correctly. It parses JavaScript files in a project and does type inference to provide meaningful completion (with type hints) and support for cross-references.

Unfortunately, cross-references with tern never reliably worked for me, that's why I have always been using xref-js2 instead for that (see part #1).

For auto-completion, we'll be using company-mode with tern. Let's go ahead and install tern:

```
$ sudo npm install -g tern
```

Now let's install the Emacs packages:

```
M-x package-install RET company-tern RET
```

The Emacs configuration is straight-forward, we simply enable company-mode with the tern backend for JavaScript buffers:

Now, depending on your JavaScript project, you might want to setup tern to work with your project structure. If completion doesn't work out of the box using tern defaults you will have to set it up using a .tern-project placed in the root folder containing your JavaScript files.

Here's an example setup for a project that uses requirejs and jquery, ignoring files from the bower\_components directory:

```
{
  "libs": [
    "jquery"
],
  "loadEagerly": [
    "./**/*.js"
],
  "dontLoad": [
```

```
"./bower_components/"
],
    "plugins": {
        "requirejs": {
            "baseURL": "./"
        }
}
```

Once setup, tern offers superb completion. Together with company-mode, you get great context-based completion with type inference.

```
newRoute.priority = routeSpec.priority;
my.addRoute(newRoute);

that.g

getParameter fn(parameterName) ○
retu getParameters fn() ○
}; getRouteByName fn(routeName) ○
getUrl fn() ○

*

-: Prouter/router.js:168:18 26%  Git-master * 4 Issues (JS js-interaction
```

When completing a function, you can hit <F1> to get its documentation:

```
that.resolveUrl = function(aUrl) {
            if (typeof aUrl === "string") {
                aUrl = url({rawUrl: aUrl});
            that.getUrl.fr
                                                      fn(obj) o
                         from fn(arrayLike, mapFn?, thisArg?) o
                                                     fn(code) o
                         fromCharCode
                         fromCodePoint
                                            fn(point, point?) o
                         fround
                                                        fn(x) \circ
       🖺 router/router.js:99:26 17% 👂 Git-master 🗶 3 Issues (JS js-interactio
Freezes an object: that is, prevents new properties from being added to
it; prevents existing properties from being removed; and prevents existi
ing properties, or their enumerability, configurability, or writability,
from being changed.
     *company-documentation*:1:0 All
                                       (Fundamental)
```

## Until next time

In the next articles I'll cover linting with Flycheck, <code>gulp</code> and <code>grunt</code> integration into Emacs, and of course how to setup and use Indium.

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## **Emacs café**

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A blog about Emacs, mostly focused on JavaScript development, by Nicolas Petton.