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Getting Started with ESLint

ESLint is a tool for identifying and reporting on patterns found in ECMAScript/JavaScript code, with the goal of making code more consistent and avoiding bugs. In many ways, it is similar to JSLint and JSHint with a few exceptions:

- ESLint uses <u>Espree</u> for JavaScript parsing.
- ESLint uses an AST to evaluate patterns in code.
- ESLint is completely pluggable, every single rule is a plugin and you can add more at runtime.

Installation and Usage

Prerequisites: Node.js (^12.22.0, ^14.17.0, or >=16.0.0) built with SSL support. (If you are using an official Node.js distribution, SSL is always built in.)

You can install and configure ESLint using this command:

```
npm init @eslint/config
```

Note: npm init deslint/config assumes you have a package.json file already. If you don't, make sure to run npm init or yarn init beforehand.

After that, you can run ESLint on any file or directory like this:

```
npx eslint yourfile.js
    # or
4
5
    yarn run eslint yourfile.js
```

It is also possible to install ESLint globally rather than locally (using npm instαll eslint -globαl). However, this is not recommended, and any plugins or shareable configs that you use must be installed locally in either case.

Configuration

Note: If you are coming from a version before 1.0.0 please see the <u>migration guide</u>.

After running npm init @eslint/config, you'll have a .eslintrc. {js,yml,json} file in your directory. In it, you'll see some rules configured like this:

```
"rules": {
             "semi": ["error", "always"],
             "quotes": ["error", "double"]
5
6
```

The names "semi" and "quotes" are the names of <u>rules</u> in ESLint. The first value is the error level of the rule and can be one of these values:

- "off" or 0 turn the rule off
- "warn" or 1 turn the rule on as a warning (doesn't affect exit code)
- "error" or 2 turn the rule on as an error (exit code will be 1)

The three error levels allow you fine-grained control over how ESLint applies rules (for more configuration options and details, see the configuration docs).

Your .eslintrc. {js,yml, json} configuration file will also include the line:

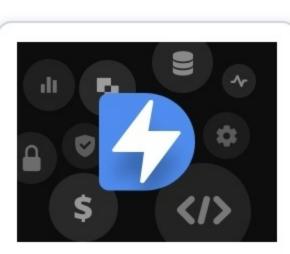
```
"extends": "eslint:recommended"
3
```

Because of this line, all of the rules marked "(recommended)" on the <u>rules page</u> will be turned on. Alternatively, you can use configurations that others have created by searching for "eslint-config" on <u>npmjs.com</u>. ESLint will not lint your code unless you extend from a shared configuration or explicitly turn rules on in your configuration.

Next Steps

- Learn about <u>advanced configuration</u> of ESLint.
- Get familiar with the <u>command line options</u>.
- Explore ESLint integrations into other tools like editors, build systems, and more.
- Can't find just the right rule? Make your own custom rule.
- Make ESLint even better by <u>contributing</u>.

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