

What Is ESLint?



Tool for evaluating application *source code*



Capable of analyzing code style – bracket spacing, line breaks, tabs and spaces, etc.



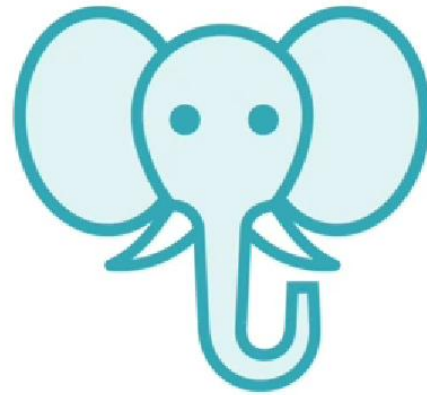
Works with continuous integration – pull requests with incorrectly styled code can be rejected automatically



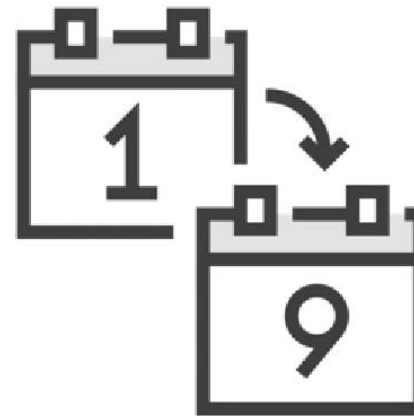
When Should You Use ESLint?



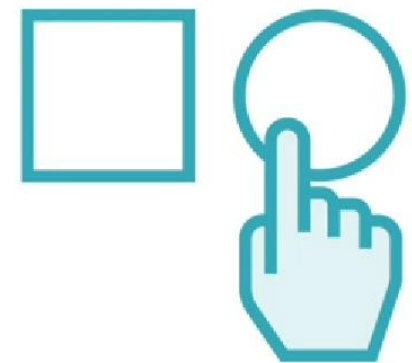
Large teams



Large projects



**Projects with
indefinite scope**



**When more
unified style is
needed**



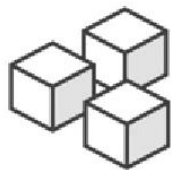
What Kind of TypeScript Style Can ESLint Enforce?



**Styling and spacing of TypeScript-specific code
(e.g, type annotations)**



Disallowed keywords (`with`, `do`)



**Preferred code conventions (e.g., requiring classes
to always define a constructor)**



Invisible style choices (tabs vs spacing, empty new line at EOF)



Before and After Using ESLint

ESLint will notify a developer of the changes and can automatically apply them.

index.ts (before)

```
var id : string = `user-1`;  
const pass: string = `my-pass`  
let success :boolean = login(id, pass)
```

index.ts (after)

```
// disallow var keyword  
const id : string = `user-1`;  
  
// force consistent spacing  
const pass : string = `my-pass`;  
  
// disallow unmodified let keyword  
const success : boolean = login(id, pass);
```



Demo



Start on Git Branch: *3-model-view*

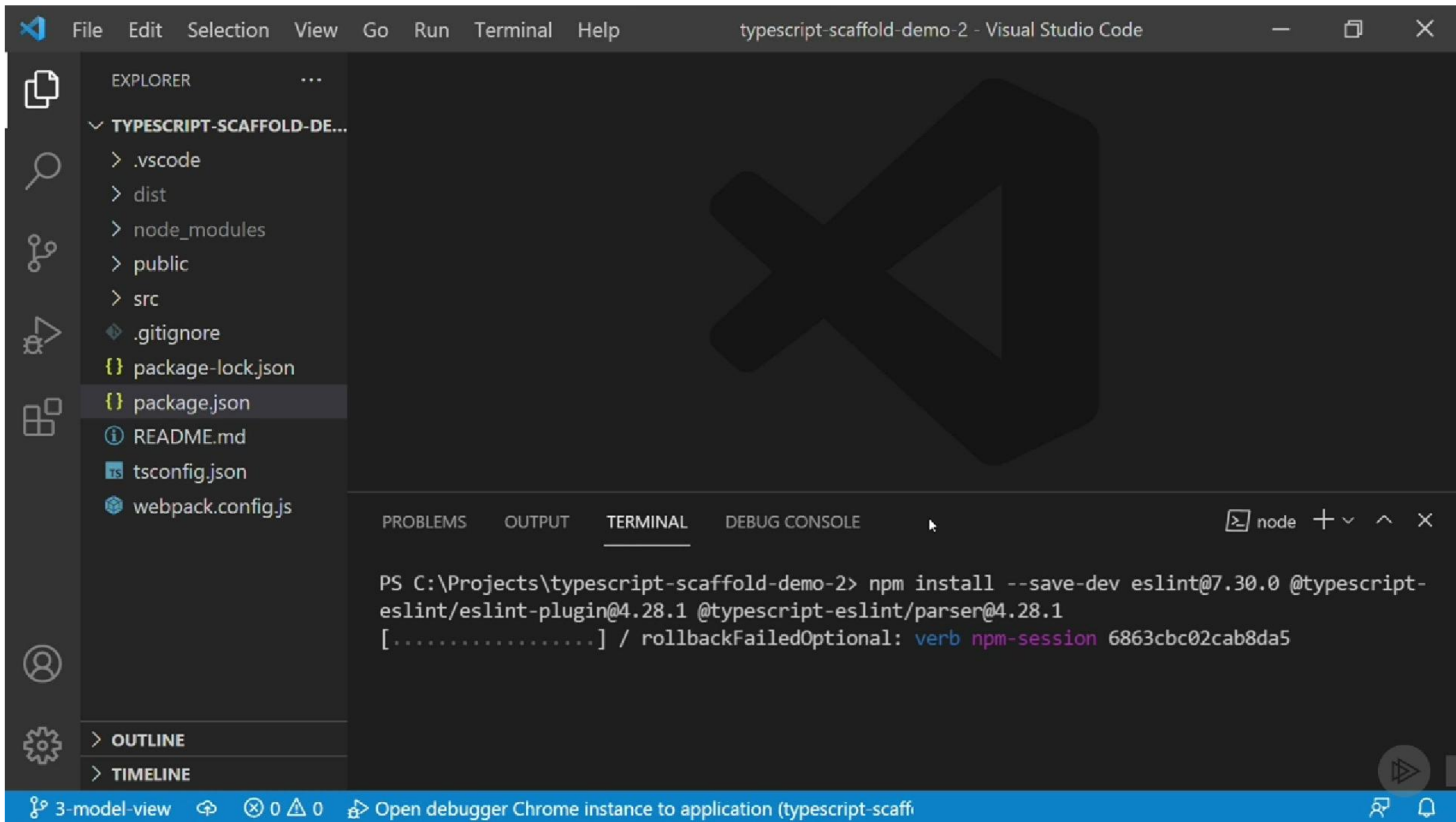
*[https://github.com/danielstern/
configuring-typescript/tree/
3-model-view](https://github.com/danielstern/configuring-typescript/tree/3-model-view)*

Install ESLint via NPM

**Create configuration suited to
our application**

**Correct styling errors and note changes to
ESLint output**





FileEditSelectionViewGoRunTerminalHelp

EXPLORER

TYPESCRIPT-CCD

.vscode

launch.json

U

> asserts

•

> bin

•

> dir

•

> lib

•

> node_modules

•

> public

•

> src

•

app

TS main.ts

M

> interface

•

TS index.ts

U

tsconfig.json

U

TS defaultStates.ts

U

TS index.ts

M

.eslintrc.js

U

.gitignore

•

package-lock.json

M

package.json

M

README.md

•

tsconfig.json

M

webpack.config.js

•

ch.json

U

.eslintrc.js

U

X

TS index.ts ...interface

U

TS index.ts src

M

TS defaultStates.ts

U

tsconfig.json

U

index.html

M

TS main.ts

M

.eslintrc.js

<unknown>

env

node

1

module.exports = {

2

parser: "@typescript-eslint/parser",

3

parserOptions : {

4

ecmaVersion: 2020

5

},

6

extends: [

7

"plugin:@typescript-eslint/recommended",

8

"eslint:recommended"

9

],

10

rules: {

11

"no-unused-vars": "off"

12

},

13

env: {

14

browser: true,

15

node: true

16

}

17

}

project-ref-type-declaration*

0

0

Ln 15, Col 19

Spaces: 4

UTF-8

CRLF

{}

JavaScript

Visual Studio Code interface showing the Explorer, Search, and Run and Debug views. The Explorer view displays the file structure of the project, including the package.json file. The Search view shows the results of a search for "project-ref-type-declaration". The Run and Debug view shows the configuration for the "package.json" file.

The package.json file content is displayed in the editor:

```
{
  "name": "typescript-scaffolding",
  "version": "1.0.0",
  "description": "Configuring, Compiling, and Debugging TypeScript Projects",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1",
    "build": "tsc --build",
    "watch": "tsc -w",
    "webpack": "webpack",
    "dev": "webpack serve",
    "lint": "eslint src/**/*.ts"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/rkram90/typescript-ccd.git"
  },
  "author": "rkram90",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/rkram90/typescript-ccd/issues"
  },
  "homepage": "https://github.com/rkram90/typescript-ccd#readme",
  "devDependencies": {
    "@tsconfig/recommended": "^1.0.2",
    "@typescript-eslint/eslint-plugin": "^5.59.5",
    "@typescript-eslint/parser": "^5.59.5",
    "eslint": "^8.40.0",
    "ts-loader": "^9.4.2",
    "typescript": "^5.0.4",
    "webpack": "^5.82.0",
    "webpack-cli": "^5.1.0",
    "webpack-dev-server": "^4.15.0"
  }
}
```

The status bar at the bottom indicates the current file is "package.json" and the search results are "0 0 0".