

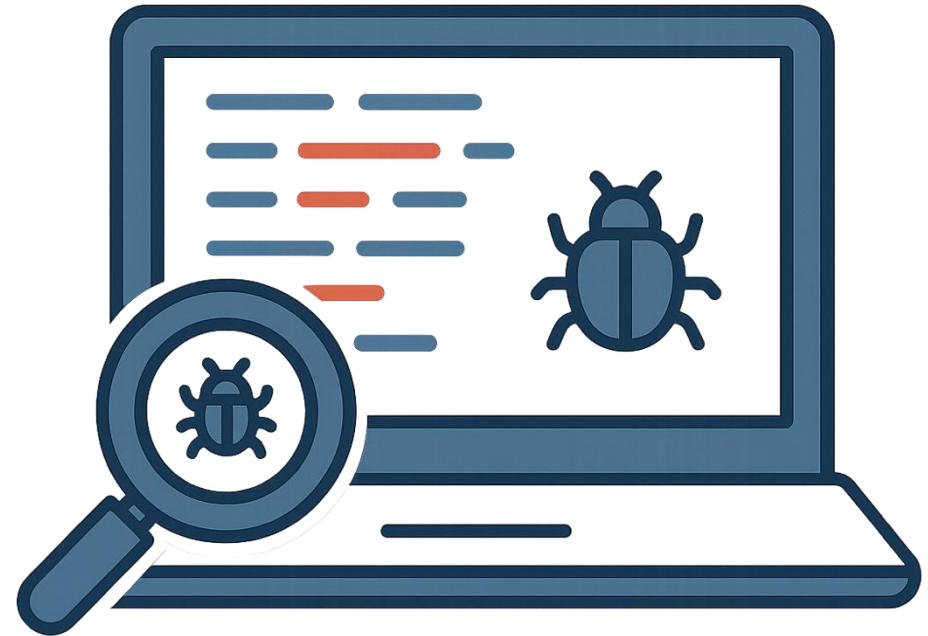
Web Advanced

Linting

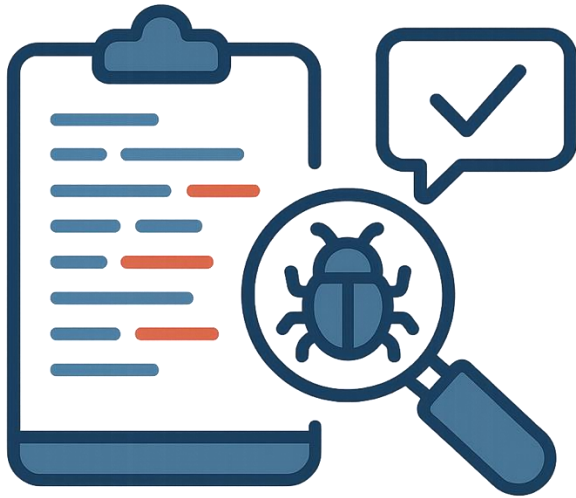


What is a Linter

- A linter is a static code analysis tool.
- It can automatically scan your code.
- The purpose is to find:
 - Errors
 - Potential bugs
 - Inconsistencies in code styles
 - Violations of best practices



Importance of Linting



- Linting can be done often and is (generally speaking) fast.
- You can detect and fix errors early. The sooner you find an error the easier it is to fix it!
- Encouraging best practices prevents the use of unsafe or outdated code patterns.
- The code style consistency makes code easier to read across teams with multiple developers.
- This in turn also helps reduce merge conflicts.

We will be using



Java



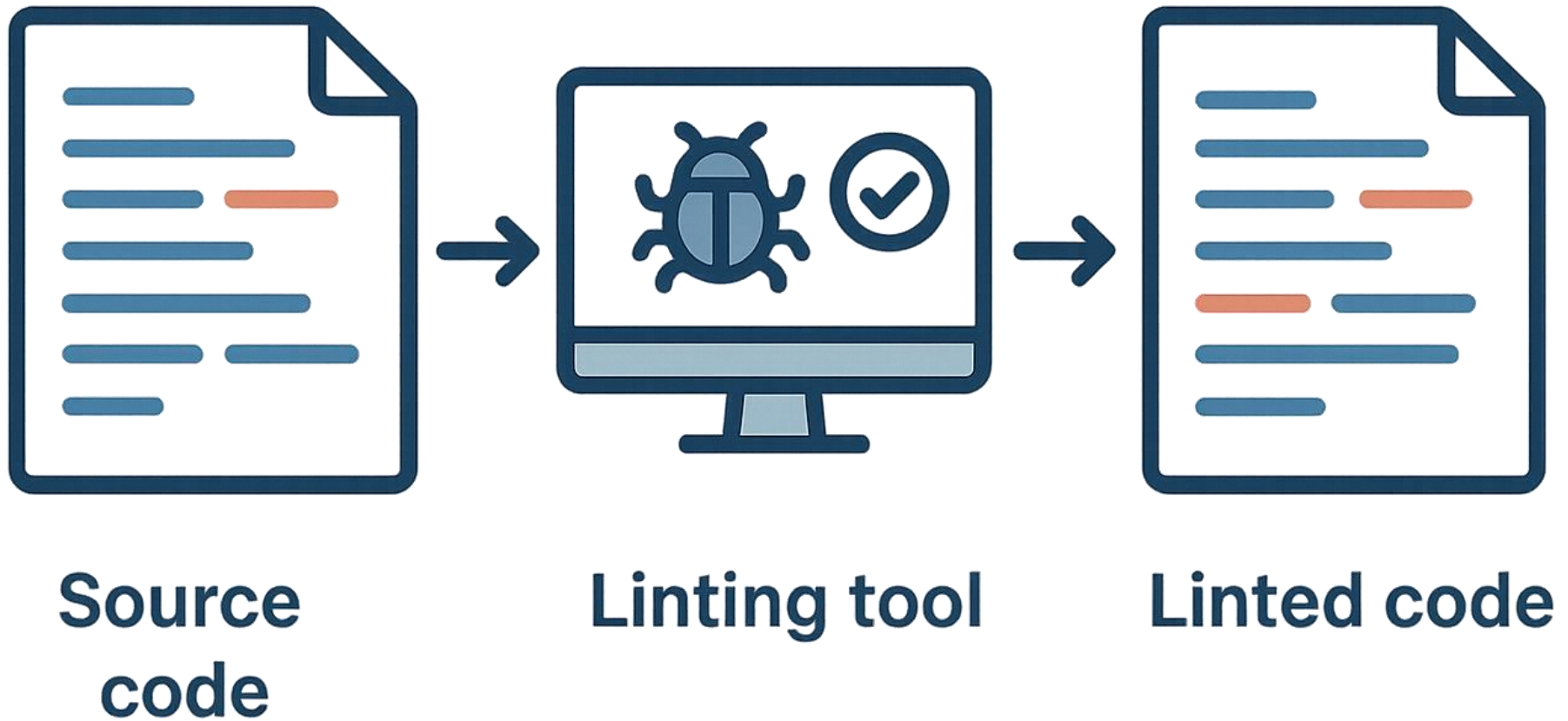
Javascript



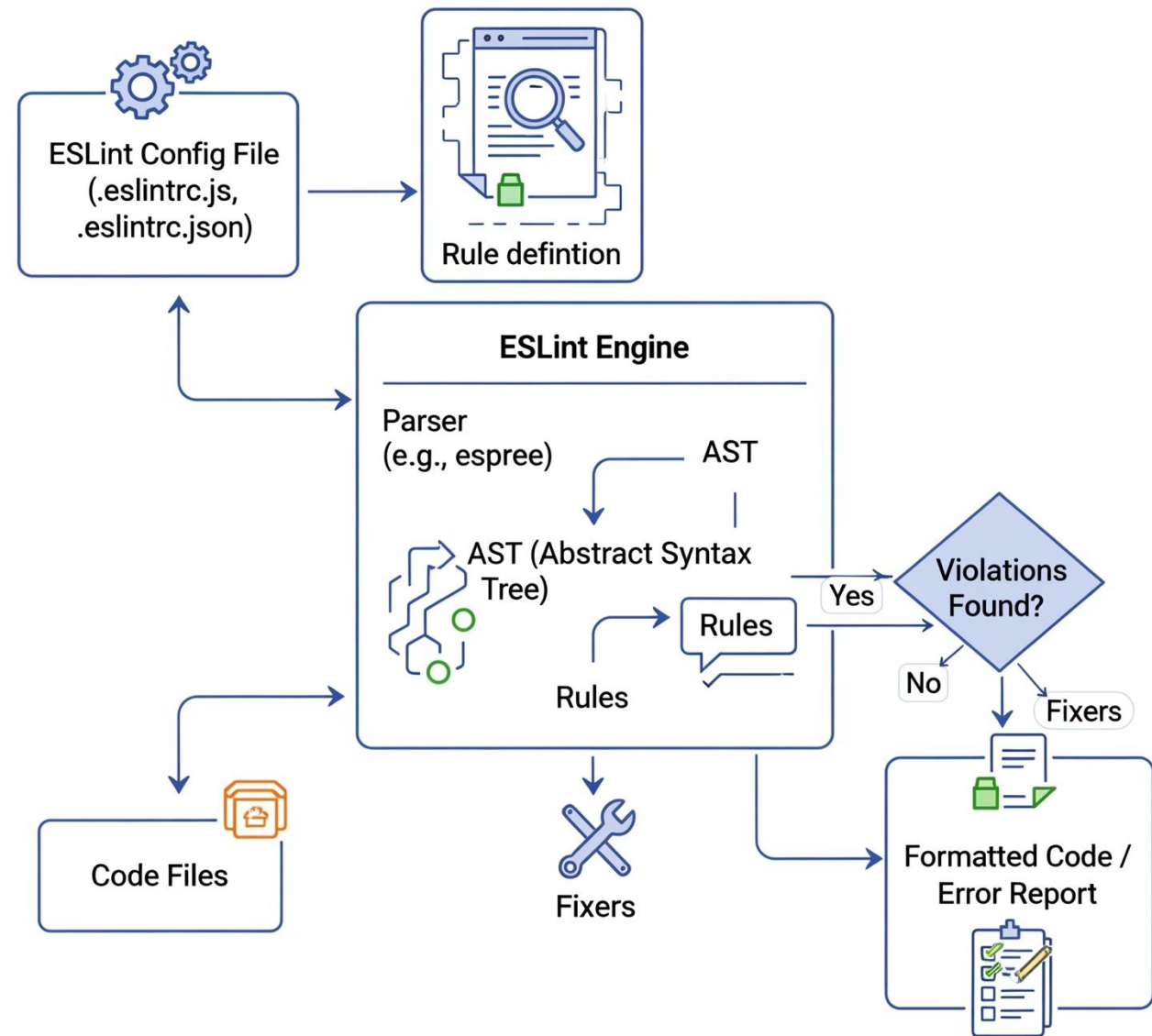
Star your Python code!

Python

HOW LINTING WORKS



How it works



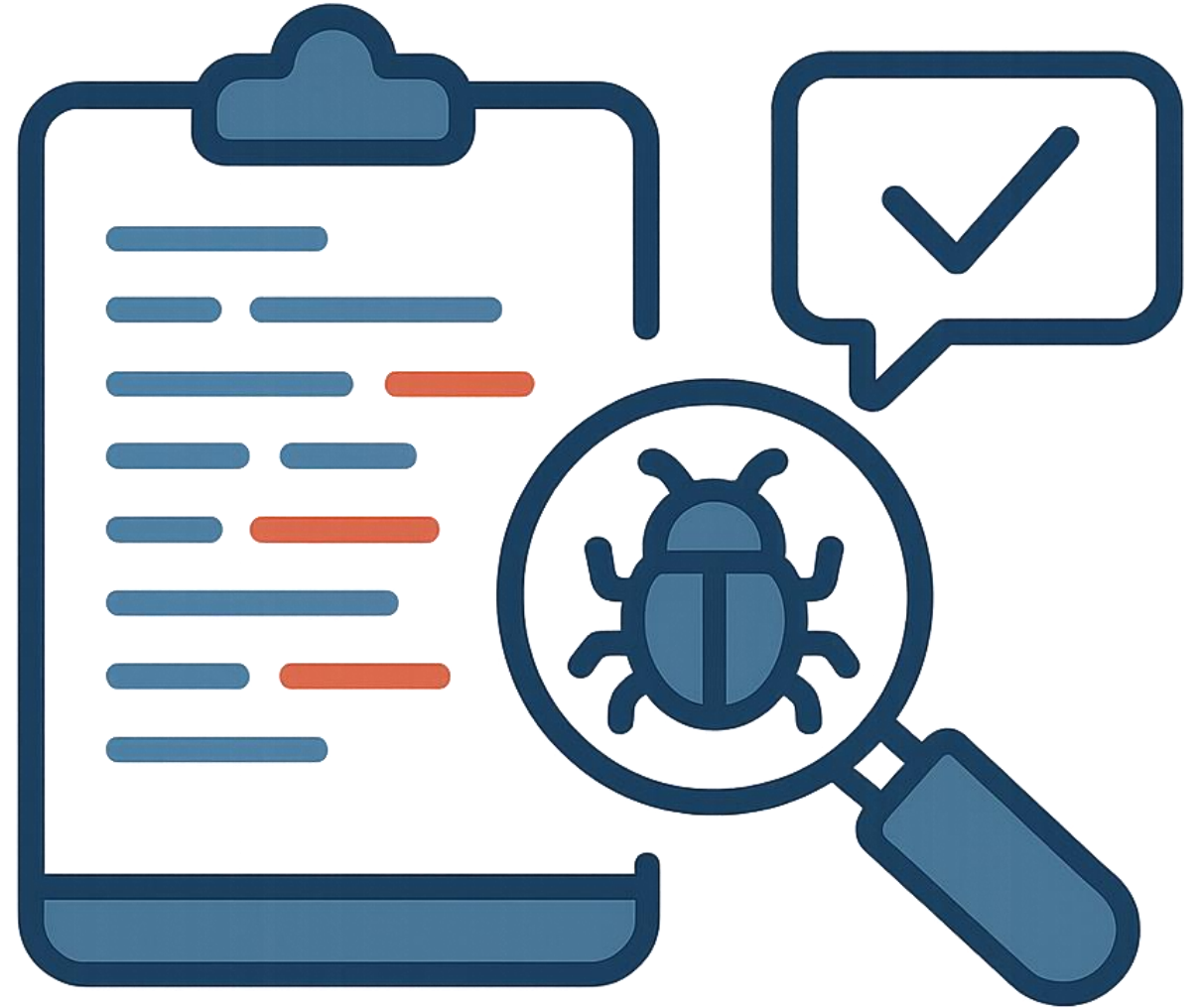
Configuration

- The linting tool can check for various things.
- Not everyone wants the same things.
- So you need to create a config.
- The config determines what is checked

```
1  import { defineConfig } from "eslint/config";
2  import js from "@eslint/js";
3
4  export default defineConfig([
5    { files: ["**/*.js"], plugins: { js }, extends: ["js/recommended"] },
6
7    {
8      rules: {
9        "no-unused-vars": "warn",
10       "no-undef": "warn",
11     },
12   },
13  ]);
```

Configuration

- ES Lint comes with a large number of built in rules.
- You can enable or disable any of them
- Using plugins you can even create custom rules to validate



Running ES Lint

- Your template already has ES Lint installed.
- Both client and server `package.json` files have lint scripts

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```
"lint": "npx eslint ./src"
```

- You can run them by executing these scripts
- `npm run lint`

Documentation

- ES Lint is still in active development
- As such, features are added and changed
- This is also true for configuration options
- Information about features and configuration options can be found in the documentation
- See <https://eslint.org/docs/latest/>, for all current information

Questions?