ESLint JavaScript linter

START HERE

`npm init @eslint/config@latest`
Create a config

`npx eslint .`
Lint the project

`npx eslint --fix .`
Auto-fix problems

`npx eslint <file>`
Lint one file

`npx eslint --quiet .`
Errors only

`npx eslint --max-warnings 0 .`
Fail on warnings

`npx eslint --cache .`
Skip unchanged files

`npx eslint --print-config <file>`
Show effective config

Files globs from CLI → match → **Flat config** eslint.config.js → apply rules → **Problems** error / warn → format → **Report** -f, exit code

CONCEPTS

ESLint 9+ reads only the flat config eslint.config.js (or .mjs/.cjs/.ts). Old .eslintrc files are ignored.

Rules are off, warn or error. Only errors (and warnings over --max-warnings) give exit code 1.

RUNNING

`npx eslint .`
Lint the current directory

`npx eslint <file> <dir>`
Lint specific files or folders

`npx eslint "src/**/*.{js,ts}"`
Lint a quoted glob
Quote globs so ESLint expands them, not the shell.

`npx eslint --stdin --stdin-filename <path>`
Lint code from stdin

`npx eslint --ignore-pattern <glob> .`
Skip files for this run

`npx eslint --no-warn-ignored <file>`
Silence the warning for ignored files
Useful when a pre-commit hook passes ignored files.

`npx eslint --no-error-on-unmatched-pattern <glob>`
Do not fail when a glob matches nothing

`npx eslint --concurrency auto .`
Lint in parallel worker threads

FIXING

`npx eslint --fix .`
Apply automatic fixes

FIXING (cont.)

`npx eslint --fix --fix-type suggestion,layout .`
Only apply some fix kinds
Types: problem, suggestion, layout, directive.

`npx eslint --cache --fix .`
Fix and remember what is clean

WARNINGS AND EXIT CODES

`npx eslint --quiet .`
Hide warnings, show errors

`npx eslint --max-warnings 0 .`
Exit 1 if any warning appears

`echo $?`
0 clean, 1 lint failure, 2 config or crash

`npx eslint --rule '<rule>: error' .`
Set a rule for this run only
Quote the value; the syntax is rule-name: severity or JSON.

`npx eslint --report-unused-disable-directives .`
Flag useless disable comments

OUTPUT

`npx eslint -f json .`
Machine-readable JSON

`npx eslint -f <name> .`
Pick a formatter
Built in: stylish (default), json, json-with-metadata, html.

`npx eslint -f json -o <file> .`
Write the report to a file

CACHE AND SPEED

`npx eslint --cache .`
Only lint changed files

CACHE AND SPEED (cont.)

`npx eslint --cache --cache-strategy content .`
Detect changes by content, not mtime
Handy in CI where checkouts reset modification times.

Add .eslintcache to .gitignore. Delete it if results look stale after a plugin or config change.

CONFIG

`npm init @eslint/config@latest`
Create eslint.config.js interactively

`npx eslint -c <file> .`
Use a specific config file

`npx eslint --print-config <file>`
Show the config a file gets

`npx eslint --debug <file>`
Print debug output

eslint.config.js

```
import js from "@eslint/js";
import globals from "globals";

export default [
  { ignores: ["dist/", "coverage/"] },
  js.configs.recommended,
  {
    files: ["**/*.js"],
    languageOptions: { globals: globals.node },
    rules: { "no-unused-vars": "warn", eqeqeq: "error" },
  },
];
```

defineConfig and extends

```
import { defineConfig } from "eslint/config";
import js from "@eslint/js";

export default defineConfig([
  { files: ["src/**/*.js"], plugins: { js }, extends: ["js/recommended"] },
  { files: ["test/**"], rules: { "no-console": "off" } },
]);
```

CONFIG (cont.)

`{ ignores: ["dist/"] }`
Global ignore (only key in the object)
With other keys it only ignores for that one config object.

`{ files: ["**/*.ts"], ... }`
Limit a config object to matching files

INLINE COMMENTS

`// eslint-disable-next-line <rule>`
Silence a rule on the next line

`// eslint-disable-line <rule>`
Silence a rule on this line

`/* eslint-disable <rule> */`
Disable from here to the end of file

`// eslint-disable-next-line <rule> -- <reason>`
Document why after --

RECIPES

CI lint step

```
npx eslint --max-warnings 0 --cache --cache-strategy content .
```

Staged files only (pre-commit)

```
git diff --name-only --cached --diff-filter=d -- '*.js' \
  | xargs npx eslint --max-warnings 0
```

Adopt a rule in a legacy repo

```
npx eslint --suppress-all .
# fix gradually, then drop stale entries
npx eslint --prune-suppressions
```