ESLint JavaScript linter

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

`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

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

FIXING

`npx eslint --fix .`
Apply automatic fixes

`npx eslint --fix --fix-type suggestion,layout .`
Only apply some fix kinds

`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

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

OUTPUT

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

OUTPUT (cont.)

`npx eslint -f <name> .`
Pick a formatter

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

CACHE AND SPEED

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

`npx eslint --cache --cache-strategy content .`
Detect changes by content, not mtime

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

CONFIG (cont.)

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" } },
]);
```

`{ ignores: ["dist/"] }`
Global ignore (only key in the 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
```