Biome Lint and format JS/TS

CONCEPTS

biome check is the one command to remember: it runs the formatter, the linter and import sorting in one pass.

biome check one pass, all three

- **Formatter** layout
- **Linter** rules, safe and unsafe fixes
- **Assist** organise imports

Without --write nothing on disk changes; biome only reports. Fixes marked unsafe also need --unsafe.

SETUP

npm i -D -E @biomejs/biome
Install pinned in a project

biome init
Create biome.json

biome version
Print the CLI version

biome migrate --write
Update config after an upgrade

biome migrate prettier --write
Import Prettier settings

biome migrate eslint --write
Import ESLint settings

CHECK

biome check *<path>*
Format, lint and assist, report only

biome check --write *<path>*
Apply formatting and safe fixes

biome check --write --unsafe *<path>*
Also apply unsafe fixes

biome check --staged
Only staged files

biome check --changed
Files changed versus the default branch

FORMAT

biome format *<path>*
Show formatting differences

FORMAT (cont.)

biome format --write *<path>*
Format files in place

biome format --staged --write
Format staged files

biome format --indent-style=space
Use spaces instead of tabs

LINT

biome lint *<path>*
Lint only

biome lint --write *<path>*
Apply safe lint fixes

biome lint --only=*<rule>*
Run a single rule or group

biome explain *<rule>*
Show docs for a rule

CI & OUTPUT

biome ci .
Check without modifying files

biome ci --changed
Only files changed on this branch

biome ci --reporter=github
Annotate a GitHub run

--error-on-warnings
Fail the run on warnings

CONFIGURATION

biome.json basics

```
{
  "vcs": { "enabled": true, "clientKind":
"git",
          "useIgnoreFile": true,
"defaultBranch": "main" },
  "files": { "includes": ["src/**"] },
  "formatter": { "indentStyle": "space",
"lineWidth": 100 },
  "linter": { "rules": { "preset":
"recommended" } }
}
```

Use files.includes with ! patterns to exclude paths; there is no separate ignore file.

A rule can be silenced inline with // biome-ignore lint/<group>/<rule>: <reason>.