# 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

**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

## 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" } }
}
```

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