

Package ‘jsslintr’

September 10, 2026

Type Package

Title JSS 'LaTeX'/'BibTeX' Style Checker

Version 1.2.0

Description Lints 'LaTeX'/'BibTeX' manuscripts against the Journal of Statistical Software (JSS) style guide. Wraps the same 'Rust' rule engine used by the standalone 'jsslint' binary, the browser/'WASM' build, and the 'Python' binding, exposed to R via 'extendr'.

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Encoding UTF-8

URL <https://github.com/kollerma/jss-style-checker>,
<https://kollerma.github.io/jss-style-checker/>

BugReports <https://github.com/kollerma/jss-style-checker/issues>

SystemRequirements Cargo (Rust's package manager), rustc >= 1.85

Depends R (>= 4.2)

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

Config/rextendr/version 0.3.1

Config/roxygen2/version 8.0.0

NeedsCompilation yes

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Repository CRAN

Date/Publication 2026-09-10 20:20:02 UTC

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jssfix	<i>Apply automatic fixes for JSS style issues</i>
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Description

Lints the given files and applies the automatic fixes in place (atomic write; a fix that reintroduces its own violation is rolled back). Use `dry_run = TRUE` to preview the changes as a unified diff without touching the files.

Usage

```
jssfix(  
  files,  
  rules = NULL,  
  dry_run = FALSE,  
  journal = NULL,  
  mode = NULL,  
  ignore_rules = NULL,  
  min_confidence = NULL,  
  verbose = NULL  
)
```

Arguments

files	Character vector of file paths, or a "jsslint" object as returned by <code>jsslint()</code> (its files and lint options are reused).
rules	Character vector of rule ids; when given, only fixes for these rules are applied.
dry_run	If TRUE, show the diff of what would change and write nothing.
journal	Journal identifier (default: "jss").
mode	"author" or "reviewer" (default: "author").
ignore_rules	Character vector of rule ids to suppress.
min_confidence	"low", "medium", or "high".
verbose	Enable diagnostic output on stderr.

Value

Invisibly, an object of class "jsslint_fixes" with data frames applied, skipped, and rejected, plus the unified diff (dry runs only). Printing it summarises what happened.

Examples

```
## Not run:
jssfix(c("paper.tex", "refs.bib"), dry_run = TRUE)
jssfix(c("paper.tex", "refs.bib"))

## End(Not run)
```

jsslint

*Check a paper against the JSS style guide***Description**

Reads the given manuscript files and lints them against the Journal of Statistical Software style guide. This is the main entry point for interactive use; [render\(\)](#) is the lower-level in-memory binding it wraps.

Usage

```
jsslint(
  files = jss_files(),
  journal = NULL,
  mode = NULL,
  ignore_rules = NULL,
  min_confidence = NULL,
  verbose = NULL
)
```

Arguments

files	Character vector of paths to .tex/.ltx and .bib files, e.g. <code>c("paper.tex", "refs.bib")</code> . Defaults to every such file in the working directory.
journal	Journal identifier (default: "jss").
mode	"author" or "reviewer" (default: "author").
ignore_rules	Character vector of rule ids to suppress.
min_confidence	"low", "medium", or "high".
verbose	Enable diagnostic output on stderr.

Value

An object of class "jsslint". Print it for a quick overview, use [summary\(\)](#) for a by-rule and by-category breakdown, and [as.data.frame\(\)](#) for one row per issue. Pass it to [jssfix\(\)](#) to apply the automatic fixes.

Examples

```
## Not run:
res <- jsslint(c("paper.tex", "refs.bib"))
res
summary(res)
as.data.frame(res)
jssfix(res)

## End(Not run)
```

jsslint_version	<i>Versions of the package, engine, and rule set</i>
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Description

The distribution-to-engine-to-rule-set mapping in code (spec 027 item D). `package` is this R package's version, which may carry a CRAN resubmission suffix (1.2.0-1) that no other channel uses; `tool` and `engine` name the compiled core it wraps; `ruleset_version` is the date of the rule set whose findings — and whose baseline entries — this build produces. `docs/versions.md` carries the same mapping for every other channel.

Usage

```
jsslint_version()
```

Value

A named list with `package`, `tool`, `engine`, `ruleset_version`, and `guide_source`.

Examples

```
jsslint_version()
```

jss_files	<i>Find manuscript files for a JSS style check</i>
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Description

Lists the `.tex`, `.ltx`, `.bib`, `.Rnw`, and `.Rmd` files in a directory — the file set `jsslint()` checks when called without arguments.

Usage

```
jss_files(path = ".")
```

Arguments

path Directory to search (default: the working directory).

Value

A character vector of file paths.

render	<i>Lint files against the JSS style guide</i>
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Description

Mirrors `jsslint::render` (the PyO3 binding) / the WASM binding's `render()`.

Usage

```
render(  
  files,  
  journal = NULL,  
  mode = NULL,  
  output = NULL,  
  ignore_rules = NULL,  
  min_confidence = NULL,  
  fail_on = NULL,  
  source_root = NULL,  
  verbose = NULL  
)
```

Arguments

files A named character vector: names are file paths (`.tex/.ltx/.bib/.Rnw/.Rmd`), values are the file contents.

journal Journal identifier (default: `"jss"`).

mode `"author"` or `"reviewer"` (default: `"author"`).

output `"terminal"`, `"json"`, `"sarif"`, or `"html"` (default: `"terminal"`).

ignore_rules Comma-separated rule ids to suppress.

min_confidence `"low"`, `"medium"`, or `"high"`.

fail_on `"error"`, `"warning"`, or `"info"`.

source_root Base directory for SARIF artifact URIs.

verbose Enable diagnostic output on stderr.

Value

The rendered report, as a single string.

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