

# Package ‘tinyrox’

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**Title** Minimal R Documentation Generator

**Version** 0.3.3

**Description** A deterministic, dependency-free documentation generator for R packages. Generates valid Rd files and NAMESPACE from 'roxygen2'-style comments using only base R. Supports a strict subset of tags with no markdown parsing, no inference magic, and explicit-only behavior.

**License** GPL-3

**URL** <https://github.com/cornball-ai/tinyrox>

**BugReports** <https://github.com/cornball-ai/tinyrox/issues>

**Encoding** UTF-8

**Suggests** tinytest

**NeedsCompilation** no

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check_code_cran	<i>Check R Code for CRAN Issues</i>
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## Description

Scans R files for common CRAN policy violations.

## Usage

```
check_code_cran(path = ".")
```

## Arguments

path                    Path to package root directory

## Value

List with issues found

## Examples

```
# Create a minimal package in tempdir
pkg <- file.path(tempdir(), "mypkg")
dir.create(file.path(pkg, "R"), recursive = TRUE, showWarnings = FALSE)
writeLines("Package: mypkg\nTitle: Test\nVersion: 0.1.0",
  file.path(pkg, "DESCRIPTION"))
writeLines("add <- function(x, y) x + y",
  file.path(pkg, "R", "add.R"))

check_code_cran(pkg)

# Clean up
unlink(pkg, recursive = TRUE)
```

---

check_code_lines	<i>Check Code Lines for Issues</i>
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**Description**

Check Code Lines for Issues

**Usage**

```
check_code_lines(lines, filename)
```

**Arguments**

lines	Character vector of code lines
filename	Filename for reporting

**Value**

List of issues

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check_cran	<i>Full CRAN Compliance Check</i>
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**Description**

Runs all CRAN compliance checks (DESCRIPTION + code).

**Usage**

```
check_cran(path = ".")
```

**Arguments**

path	Path to package root directory
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**Value**

List with all issues

## Examples

```
# Create a minimal package in tempdir
pkg <- file.path(tempdir(), "mypkg")
dir.create(file.path(pkg, "R"), recursive = TRUE, showWarnings = FALSE)
writeLines("Package: mypkg\nTitle: Test\nVersion: 0.1.0\nDescription: A test package.",
  file.path(pkg, "DESCRIPTION"))
writeLines("add <- function(x, y) x + y",
  file.path(pkg, "R", "add.R"))

check_cran(pkg)

# Clean up
unlink(pkg, recursive = TRUE)
```

---

check\_description\_cran

*Check DESCRIPTION for CRAN Compliance*

---

## Description

Validates Title and Description fields for common CRAN issues: unquoted package names, missing web service links, etc.

## Usage

```
check_description_cran(path = ".", fix = FALSE)
```

## Arguments

path	Path to package root directory
fix	If TRUE, return fixed text. If FALSE, just warn.

## Value

List with validation results and optionally fixed text

## Examples

```
# Create a minimal package in tempdir
pkg <- file.path(tempdir(), "mypkg")
dir.create(pkg, recursive = TRUE, showWarnings = FALSE)
writeLines("Package: mypkg\nTitle: Test\nVersion: 0.1.0\nDescription: A test package.",
  file.path(pkg, "DESCRIPTION"))

check_description_cran(pkg)

# Clean up
unlink(pkg, recursive = TRUE)
```

---

check\_examples\_cran    *Check for Missing Examples*

---

**Description**

Identifies exported functions that lack examples in their documentation.

**Usage**

```
check_examples_cran(path = ".")
```

**Arguments**

path                    Path to package root directory

**Value**

Character vector of function names missing examples

**Examples**

```
# Create a minimal package in tempdir
pkg <- file.path(tempdir(), "mypkg")
dir.create(file.path(pkg, "R"), recursive = TRUE, showWarnings = FALSE)
writeLines("Package: mypkg\nTitle: Test\nVersion: 0.1.0",
           file.path(pkg, "DESCRIPTION"))
writeLines("#' Add numbers\n#' @export\nadd <- function(x, y) x + y",
           file.path(pkg, "R", "add.R"))

check_examples_cran(pkg)

# Clean up
unlink(pkg, recursive = TRUE)
```

---

check\_webservice\_links    *Check for Missing Web Service Links*

---

**Description**

Checks if packages that typically use web services have corresponding URLs in the Description.

**Usage**

```
check_webservice_links(description, packages)
```

**Arguments**

description	Description text
packages	Package names from dependencies

**Value**

Named list of packages missing links (name = URL)

---

clean	<i>Clean Generated Files</i>
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**Description**

Removes all Rd files from man/ directory.

**Usage**

```
clean(path = ".", namespace = FALSE)
```

**Arguments**

path	Path to package root directory.
namespace	Also remove NAMESPACE? Default FALSE.

**Value**

No return value, called for side effects.

**Examples**

```
# Create a minimal package in tempdir
pkg <- file.path(tempdir(), "mypkg")
dir.create(file.path(pkg, "man"), recursive = TRUE, showWarnings = FALSE)
writeLines("Package: mypkg\nTitle: Test\nVersion: 0.1.0",
           file.path(pkg, "DESCRIPTION"))
writeLines("placeholder", file.path(pkg, "man", "test.Rd"))

clean(pkg)

# Clean up
unlink(pkg, recursive = TRUE)
```

---

document *Generate Documentation for an R Package*

---

## Description

Main function for tinyrox. Parses R source files for documentation comments and generates Rd files and NAMESPACE.

## Usage

```
document(path = ".", namespace = c("overwrite", "append", "none"),
         cran_check = TRUE)
```

## Arguments

path	Path to package root directory. Default is current directory.
namespace	How to handle NAMESPACE generation. One of <b>"overwrite"</b> Fully regenerate NAMESPACE (default) <b>"append"</b> Insert between ## tinyrox start/end markers <b>"none"</b> Don't modify NAMESPACE
cran_check	Run CRAN compliance checks (DESCRIPTION quoting, web service links, code issues, missing examples). Default TRUE.

## Value

Invisibly returns a list with: - rd\_files: character vector of generated Rd file paths - namespace: path to NAMESPACE file (or NULL if mode="none")

## Examples

```
# Create a minimal package in tempdir
pkg <- file.path(tempdir(), "mypkg")
dir.create(file.path(pkg, "R"), recursive = TRUE, showWarnings = FALSE)
writeLines("Package: mypkg\nTitle: Test\nVersion: 0.1.0",
          file.path(pkg, "DESCRIPTION"))
writeLines(c(
  "' Add two numbers",
  "' @param x A number",
  "' @param y A number",
  "' @export",
  "add <- function(x, y) x + y",
  file.path(pkg, "R", "add.R"))

# Document the package
document(pkg, cran_check = FALSE)

# Clean up
unlink(pkg, recursive = TRUE)
```

---

`escape_regex`*Escape Regex Special Characters*

---

**Description**

Escape Regex Special Characters

**Usage**`escape_regex(x)`**Arguments**

<code>x</code>	String to escape
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**Value**

Escaped string safe for use in regex

---

`extract_function_name` *Extract Function Name from Definition Line*

---

**Description**

Extract Function Name from Definition Line

**Usage**`extract_function_name(line)`**Arguments**

<code>line</code>	Code line potentially containing function definition
-------------------	--

**Value**

Function name or NULL

---

find\_dontrun\_examples *Find Exported Functions Using dontrun in Examples*

---

**Description**

Parses R file content to find @export tags with \dontrun in @examples.

**Usage**

```
find_dontrun_examples(lines)
```

**Arguments**

lines            Character vector of file lines

**Value**

Character vector of function names using dontrun

---

find\_exports\_without\_examples  
*Find Exported Functions Without Examples*

---

**Description**

Parses R file content to find @export tags without @examples.

**Usage**

```
find_exports_without_examples(lines)
```

**Arguments**

lines            Character vector of file lines

**Value**

Character vector of function names missing examples

find\_long\_example\_lines

*Find Example Lines Exceeding 100 Characters*

---

**Description**

Scans @examples blocks for lines that will be truncated in the PDF manual.

**Usage**

```
find_long_example_lines(lines, filename)
```

**Arguments**

lines	Character vector of file lines
filename	Filename for reporting

**Value**

Character vector of warnings (file:line format)

---

find\_unquoted\_names *Find Unquoted Names in Text*

---

**Description**

Finds package/software names that appear without single quotes.

**Usage**

```
find_unquoted_names(text, names)
```

**Arguments**

text	Text to search
names	Names to look for

**Value**

Character vector of unquoted names found

---

fix\_description\_cran *Fix DESCRIPTION File*

---

**Description**

Automatically fixes common CRAN issues in DESCRIPTION.

**Usage**

```
fix_description_cran(path = ".", backup = TRUE)
```

**Arguments**

path	Path to package root directory
backup	Create backup file? Default TRUE.

**Value**

Invisibly returns TRUE if changes were made

**Examples**

```
# Create a minimal package in tempdir
pkg <- file.path(tempdir(), "mypkg")
dir.create(pkg, recursive = TRUE, showWarnings = FALSE)
writeLines("Package: mypkg\nTitle: Test\nVersion: 0.1.0\nDescription: A test package.",
  file.path(pkg, "DESCRIPTION"))

fix_description_cran(pkg, backup = FALSE)

# Clean up
unlink(pkg, recursive = TRUE)
```

---

get\_dependency\_packages

*Extract Package Names from Dependencies*

---

**Description**

Parses Imports, Suggests, Depends, and Enhances fields.

**Usage**

```
get_dependency_packages(desc)
```

**Arguments**

desc            DESCRIPTION matrix from read.dcf()

**Value**

Character vector of package names

---

parse\_tags            *Parse Tags from Documentation Lines*

---

**Description**

Parse Tags from Documentation Lines

**Usage**

```
parse_tags(lines, object_name, file = NULL, line_num = NULL)
```

**Arguments**

lines            Character vector of documentation lines (without #').  
object\_name      Name of the documented object.  
file             Source file (for error messages).  
line\_num         Starting line number (for error messages).

**Value**

A list with parsed tag values.

**Examples**

```
lines <- c("Title Here", "", "Description text.", "", "@param x A number.",  
          "@return The number.", "@export")  
tags <- parse_tags(lines, "my_function")  
tags$title  
tags$params
```

---

`quote_names_in_text`    *Quote Names in Text*

---

**Description**

Wraps unquoted package/software names in single quotes.

**Usage**

```
quote_names_in_text(text, names)
```

**Arguments**

<code>text</code>	Text to modify
<code>names</code>	Names to quote

**Value**

Modified text with names quoted

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