

Package ‘rdocdump’

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Title Dump 'R' Package Source, Documentation, and Vignettes into One File

Version 0.2.0

Description Dump source code, documentation and vignettes of an 'R' package into a single file. Supports installed packages, tar.gz archives, and package source directories. If the package is not installed, only its source is automatically downloaded from CRAN for processing. The output is a single plain text file or a character vector, which is useful to ingest complete package documentation and source into a large language model (LLM) or pass it further to other tools, such as 'ragnar' <<https://github.com/tidyverse/ragnar>> to create a Retrieval-Augmented Generation (RAG) workflow.

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URL <https://github.com/e-kotov/rdocdump>,
<https://www.ekotov.pro/rdocdump/>

BugReports <https://github.com/e-kotov/rdocdump/issues>

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Author Egor Kotov [aut, cre, cph] (ORCID:
<<https://orcid.org/0000-0001-6690-5345>>)

Maintainer Egor Kotov <kotov.egor@gmail.com>

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rdd_extract_code	<i>Extract R Source Code from a Package</i>
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Description

This function extracts the R source code from a package. For installed packages, it retrieves the package namespace and deparses all functions found in the package. For package source directories or archives (non-installed packages), it reads all .R files from the R directory and, optionally, from the tests directory. Optionally, it can include roxygen2 documentation from these files.

Usage

```
rdd_extract_code(
  pkg,
  file = NULL,
  include_tests = FALSE,
  include_roxygen = FALSE,
  force_fetch = FALSE,
  version = NULL,
  cache_path = getOption("rdocdump.cache_path"),
  keep_files = "none",
  repos = getOption("rdocdump.repos", getOption("repos"))
)
```

Arguments

- | | |
|-----|---|
| pkg | A character string specifying the package. This can be: <ul style="list-style-type: none"> • an installed package name (e.g., "ggplot2"), • a full path to a package source directory, • a full path to a package archive file (tar.gz), • a package name not installed (which will then be downloaded from CRAN), • a GitHub repository reference (e.g., "tidyverse/ggplot2" or "github::tidyverse/ggplot2"), • a GitLab repository reference (e.g., "gitlab::user/repo"), • a repository reference with specific branch/tag/commit (e.g., "user/repo@v1.0.0" or "user/repo@main"), • a repository reference with subdirectory (e.g., "user/repo/subdir" for packages not at repo root), |
|-----|---|

	<ul style="list-style-type: none"> • a full GitHub or GitLab web URL (e.g., "https://github.com/apache/sedona-db/tree/main/r/" or "https://github.com/ipeaGIT/r5r/tree/master/r-package").
file	Optional. Save path for the output text file. If set, the function will return the path to the file instead of the combined text. Defaults to NULL.
include_tests	logical. If TRUE, for non-installed packages, the function will also include R source code from the tests directory. Defaults to FALSE.
include_roxygen	logical. If TRUE, roxygen2 documentation lines (lines starting with "#") from R files will be included in the output. Defaults to FALSE.
force_fetch	logical. If TRUE, the package source will be fetched from CRAN even if the package is installed locally. Default is FALSE, but when version is specified, it will be set to TRUE.
version	Optional. A character string specifying the package version to fetch from CRAN. If not provided, the latest version will be used.
cache_path	A character string specifying the directory to use as a cache. Defaults to the value of <code>getOption("rdocdump.cache_path")</code> .
keep_files	A character value controlling whether temporary files should be kept. Possible values are: <ul style="list-style-type: none"> • "none": Delete both the tar.gz archive and the extracted files (default). • "tgz": Keep only the tar.gz archive. • "extracted": Keep only the extracted files. • "both": Keep both the tar.gz archive and the extracted files.
repos	A character vector of repository URLs. By default, it uses the value of <code>getOption("rdocdump.repos")</code> which sets the repository URLs to the default R repositories and is itself set to <code>c("CRAN" = "https://cloud.r-project.org")</code> on package load to prevent accidental downloads of pre-built packages from Posit Package Manager and R Universe.

Value

A single string containing the combined R source code (and, optionally, roxygen2 documentation) from the package.

Examples

```
# Extract only R source code (excluding roxygen2 documentation) from an installed package.
code <- rdd_extract_code("splines")
cat(substr(code, 1, 1000))

# Extract R source code including roxygen2 documentation from a package source directory.

# set cache directory for `rdocdump`
rdd_set_cache_path(paste0(tempdir(), "/rdocdump_cache"))

local({
  code_with_roxygen <- rdd_extract_code(
    "ini",
```

```
include_roxygen = TRUE,
force_fetch = TRUE,
repos = c("CRAN" = "https://cran.r-project.org")
)
cat(substr(code_with_roxygen, 1, 1000))
})

# Extract R source code from a package source directory,
# including test files but excluding roxygen2 docs.
local({
code_with_tests <- rdd_extract_code(
"ini",
include_roxygen = TRUE,
include_tests = TRUE,
force_fetch = TRUE,
repos = c("CRAN" = "https://cran.r-project.org")
)
cat(substr(code_with_tests, 1, 1000))
})
# clean cache directory
unlink(getOption("rdocdump.cache_path"), recursive = TRUE, force = TRUE)
```

rdd_get_repos

Get Current rdocdump Repository Options

Description

This function returns the current repository URLs used by rdocdump. The default is set to the CRAN repository at "https://cloud.r-project.org". This does not affect the repositories used by `install.packages()` in your current R session and/or project. To set repository options, use [rdd_set_repos](#).

Usage

```
rdd_get_repos()
```

Value

A character vector of repository URLs.

Examples

```
# Get current rdocdump repository options
rdd_get_repos()
```


Value

Invisibly returns the new repository URLs.

Examples

```
# Set rdocdump repository options
rdd_set_repos(c("CRAN" = "https://cloud.r-project.org"))
```

rdd_to_txt

Dump Package Source, Documentation and Vignettes into Plain Text

Description

This function produces a single text output for an R package by processing its documentation (Rd files from the package source or the documentation from already installed packages), vignettes, and/or R source code.

Usage

```
rdd_to_txt(
  pkg,
  file = NULL,
  content = "all",
  force_fetch = FALSE,
  version = NULL,
  keep_files = "none",
  cache_path = getOption("rdocdump.cache_path"),
  repos = getOption("rdocdump.repos", getOption("repos"))
)
```

Arguments

pkg

A character string specifying the package. This can be:

- an installed package name (e.g., "ggplot2"),
- a full path to a package source directory,
- a full path to a package archive file (tar.gz),
- a package name not installed (which will then be downloaded from CRAN),
- a GitHub repository reference (e.g., "tidyverse/ggplot2" or "github::tidyverse/ggplot2"),
- a GitLab repository reference (e.g., "gitlab::user/repo"),
- a repository reference with specific branch/tag/commit (e.g., "user/repo@v1.0.0" or "user/repo@main"),
- a repository reference with subdirectory (e.g., "user/repo/subdir" for packages not at repo root),
- a full GitHub or GitLab web URL (e.g., "https://github.com/apache/sedona-db/tree/main/r/" or "https://github.com/ipeaGIT/r5r/tree/master/r-package").

file	Optional. Save path for the output text file. If set, the function will return the path to the file instead of the combined text. Defaults to NULL.
content	<p>A character vector specifying which components to include in the output. Possible values are:</p> <ul style="list-style-type: none"> • "all": Include Rd documentation, vignettes, and R source code (default). • "docs": Include only the Rd documentation. • "vignettes": Include only the vignettes. • "code": Include only the R source code. When extracting code for non-installed packages, the function will not include roxygen2 documentation, as the documentation can be imported from the Rd files. If you want to extract the R source code with the roxygen2 documentation, use <code>rdd_extract_code</code> and set <code>include_roxygen</code> to TRUE. <p>You can specify multiple options (e.g., <code>c("docs", "code")</code>) to include both documentation and source code).</p>
force_fetch	logical. If TRUE, the package source will be fetched from CRAN as a tar.gz archive even if the package is already installed locally. Default is FALSE, but when version is specified, it will be set to TRUE.
version	Optional. A character string specifying the package version to fetch from CRAN. If not provided, the latest version will be used.
keep_files	<p>A character value controlling whether temporary files should be kept. Possible values are:</p> <ul style="list-style-type: none"> • "none": Delete both the tar.gz archive and the extracted files (default). • "tgz": Keep only the tar.gz archive. • "extracted": Keep only the extracted files. • "both": Keep both the tar.gz archive and the extracted files.
cache_path	A character string specifying the directory where kept temporary files will be stored. By default, it uses the value of <code>getOption("rdocdump.cache_path")</code> which sets the cache directory to the temporary directory of the current R session.
repos	A character vector of repository URLs. By default, it uses the value of <code>getOption("rdocdump.repos")</code> which sets the repository URLs to the default R repositories and is itself set to <code>c("CRAN" = "https://cloud.r-project.org")</code> on package load to prevent accidental downloads of pre-built packages from Posit Package Manager and R Universe.

Value

A single string containing the combined package documentation, vignettes, and/or code as specified by the content argument. If the file argument is set, returns the path to the file.

Examples

```
# Extract documentation for built-in `stats` package (both docs and vignettes).
docs <- rdd_to_txt("splines")
cat(substr(docs, 1, 500))
```

```
## Not run:
# Extract from GitHub repository
docs <- rdd_to_txt("r-lib/rlang")

# Extract specific version from GitHub
docs <- rdd_to_txt("r-lib/rlang@v1.1.0")

# Extract from GitLab
docs <- rdd_to_txt("gitlab::user/repo")

## End(Not run)

# set cache directory for `rdocdump`
rdd_set_cache_path(paste0(tempdir(), "/rdocdump_cache"))

# Extract only documentation for rJavaEnv by downloading its source from CRAN
docs <- rdd_to_txt(
  "rJavaEnv",
  force_fetch = TRUE,
  content = "docs",
  repos = c("CRAN" = "https://cran.r-project.org")
)
lines <- unlist(strsplit(docs, "\n"))
# Print the first 3 lines
cat(head(lines, 3), sep = "\n")
# Print the last 3 lines
cat(tail(lines, 3), sep = "\n")

# clean cache directory
unlink(getOption("rdocdump.cache_path"), recursive = TRUE, force = TRUE)
```

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