

Package ‘armadillo4r’

August 23, 2026

Type Package

Title An 'Armadillo' Interface

Description Provides function declarations and inline function definitions that facilitate communication between R and the 'Armadillo' 'C++' library for linear algebra and scientific computing. This implementation is derived from Vargas Sepulveda and Schneider Malamud (2024) [<doi:10.1016/j.softx.2025.102087>](https://doi.org/10.1016/j.softx.2025.102087). The shipped version of the 'Armadillo' library is version 15.4.2 ``Medium Roast Agave".

Version 15.4.2

Imports cpp4r

Suggests Matrix, tinyroxygen, tinytest, litedown, rbibutils

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URL <https://pacha.dev/armadillo4r/>,
<https://github.com/pachadotdev/armadillo4r>

BugReports <https://github.com/pachadotdev/armadillo4r/issues>

Depends R(>= 4.0.0)

Encoding UTF-8

VignetteBuilder litedown

NeedsCompilation no

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Repository CRAN

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armadillo_version	<i>Get Armadillo version</i>
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Description

Provides the Armadillo C++ library version name and number included in the package.

Usage

```
armadillo_version()
```

Value

A string with the Armadillo version name and number

Examples

```
armadillo_version()
```

pkg_template	<i>Start a new project with the armadillo4r package template</i>
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Description

Copies a package template into a new directory. The template includes a DESCRIPTION file, a minimal R/ directory and placeholders with instructions. You can then edit these files to customize your new package.

Usage

```
pkg_template(path = NULL, pkgname = NULL)
```

Arguments

path	Path to the new project
pkgname	Name of the new package

Value

The file path to the copied template (invisibly).

Examples

```
# create a new directory
dir <- paste0(tempdir(), "/", gsub("\\s+|[[:punct:]]", "", Sys.time()))
dir.create(dir)

# copy the package template into the directory
pkg_template(dir, "mynewpkg")
```

unvendor

Unvendor the armadillo4r headers

Description

Removes the vendored armadillo4r headers from your package by automatically finding the vendored headers.

Usage

```
unvendor(path = NULL)
```

Arguments

path	The directory with the vendored headers (e.g., <code>./src/vendor</code>). The default is <code>NULL</code> .
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Value

The path to the unvendored code (invisibly).

Examples

```
# create a new directory
dir <- paste0(tempdir(), "/", gsub("\\s+|[[:punct:]]", "", Sys.time()))
dir.create(dir, recursive = TRUE)

# vendor the armadillo4r headers into the directory
vendor(dir)

# unvendor the armadillo4r headers from the directory
unvendor(dir)
```

`vendor`*Vendor the cpp4r and armadillo4r headers*

Description

Vendors armadillo4r into your package by copying the armadillo4r headers into the `inst/include` folder of your package and adding 'armadillo4r version: XYZ' to the top of the files, where XYZ is the version of armadillo4r currently installed on your machine.

Note: vendoring places the responsibility of updating the code on you. Bugfixes and new features in armadillo4r will not be available for your code until you run `cpp_vendor()` again.

Usage

```
vendor(path = NULL)
```

Arguments

<code>path</code>	The directory with the vendored headers. It is recommended to use <code>"./src/vendor"</code> . The default is <code>NULL</code> .
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Value

The path to the vendored code (invisibly).

Examples

```
# create a new directory
dir <- paste0(tempdir(), "/", gsub("\\s+|[:punct:]", "", Sys.time()))
dir.create(dir, recursive = TRUE)

# vendor the armadillo4r headers into the directory
vendor(dir)
```

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