

# Package: `cpp11armadillo` (via `r-universe`)

September 9, 2024

**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 detailed in Vargas Sepulveda and Schneider Malamud (2024) <[doi:10.48550/arXiv.2408.11074](https://doi.org/10.48550/arXiv.2408.11074)>.

**Version** 0.3.4

**Suggests** `cpp11`, `desc`, `knitr`, `mockery`, `rmarkdown`, `testthat` ( $\geq 3.0.0$ ),  
withr

**Depends** `R` ( $\geq 3.5.0$ )

**License** Apache License ( $\geq 2$ )

**BugReports** <https://github.com/pachadotdev/cpp11armadillo/issues>

**URL** <https://pacha.dev/cpp11armadillo/>,  
<https://github.com/pachadotdev/cpp11armadillo>

**LazyData** true

**RoxygenNote** 7.3.1

**Encoding** UTF-8

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**Repository** <https://pachadotdev.r-universe.dev>

**RemoteUrl** <https://github.com/pachadotdev/cpp11armadillo>

**RemoteRef** HEAD

**RemoteSha** d4b502dd36d01911730ae3fc81471751eb85d4e1

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<code>armadillo_version</code>	<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()
```

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<code>cpp_vendor</code>	<i>Vendor the cpp11 and cpp11armadillo dependency</i>
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**Description**

Vendoring is the act of making your own copy of the 3rd party packages your project is using. It is often used in the go language community.

**Usage**

```
cpp_vendor(dir = NULL, subdir = "/inst/include")
```

**Arguments**

<code>dir</code>	The directory to vendor the code into.
<code>subdir</code>	The subdirectory to vendor the code into.

**Details**

This function vendors `cpp11` and `cpp11armadillo` into your package by copying the `cpp11` and `cpp11armadillo` headers into the `'inst/include'` folder and adding `'cpp11 version: XYZ'` and `'cpp11armadillo version: XYZ'` to the top of the files, where `XYZ` is the version of `cpp11` and `cpp11armadillo` currently installed on your machine.

Vendoring places the responsibility of updating the code on you. Bugfixes and new features in `cpp11` and `cpp11armadillo` will not be available for your code until you run `'cpp_vendor()'` again.

**Value**

The file path to the vendored code (invisibly).

**Examples**

```
# create a new directory
dir <- tempdir()
dir.create(dir)

# vendor the cpp11 headers into the directory
cpp_vendor(dir)
```

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pkg_template	<i>Start a new project with the cpp11 armadillo package template</i>
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**Description**

Start a new project with the cpp11 armadillo package template

**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 <- tempdir()
dir.create(dir)

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

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