Package 'cpp11armadillo'

September 2, 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>.
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Depends R(>= 3.5.0)
License Apache License (>= 2)
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armadillo_version

Get Armadillo version

Description

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

Usage

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```
armadillo_version()
```

Value

A string with the Armadillo version name and number

Examples

```
armadillo_version()
```

cpp_vendor

Vendor the cpp11 and cpp11armadillo dependency

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

dir The directory to vendor the code into.

subdir The subdirectory to vendor the code into.

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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)</pre>
```

pkg_template

Start a new project with the cpp11armadillo package template

Description

Start a new project with the cpp11armadillo 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")</pre>
```

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