

Package ‘armatemplate’

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Type Package

Title What the Package Does Using Title Case

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Author Your Name

Maintainer Your Name <your@email.com>

Description More details about what the package does. See <<http://cran.r-project.org/doc/manuals/r-release/R-exts.html#The-DESCRIPTION-file>> for details on how to write this part.

License GPL (>= 2)

Imports Rcpp (>= 1.0.0)

LinkingTo Rcpp, RcppArmadillo

RoxygenNote 6.1.1

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armatemplate-package	<i>What the Package Does Using Title Case</i>
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Description

More details about what the package does. See <<http://cran.r-project.org/doc/manuals/r-release/R-exts.html#The-DESCRIPTION-file>> for details on how to write this part.

Details

The DESCRIPTION file: This package was not yet installed at build time.

Index: This package was not yet installed at build time.

This section should provide a more detailed overview of how to use the package, including the most important functions.

Author(s)

Your Name

Maintainer: Your Name <your@email.com>

References

This optional section can contain literature or other references for background information.

See Also

Optional links to other man pages

Examples

```
## Optional simple examples of the most important functions
## Use \dontrun{} around code to be shown but not executed
```

hello	<i>A simple function doing little</i>
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Description

This function shows a standard text on the console. In a time-honoured tradition, it defaults to displaying *hello, world*.

Examples

```
hello()
hello("and goodbye")
```

RcppArmadillo-Functions

Set of functions in example RcppArmadillo package

Description

These four functions are created when `RcppArmadillo.package.skeleton()` is invoked to create a skeleton packages.

Usage

```
rcpparma_hello_world()  
rcpparma_outerproduct(x)  
rcpparma_innerproduct(x)  
rcpparma_bothproducts(x)
```

Arguments

`x` a numeric vector

Details

These are example functions which should be largely self-explanatory. Their main benefit is to demonstrate how to write a function using the Armadillo C++ classes, and to have to such a function accessible from R.

Value

`rcpparma_hello_world()` does not return a value, but displays a message to the console.
`rcpparma_outerproduct()` returns a numeric matrix computed as the outer (vector) product of `x`.
`rcpparma_innerproduct()` returns a double computer as the inner (vector) product of `x`.
`rcpparma_bothproducts()` returns a list with both the outer and inner products.

Author(s)

Dirk Eddelbuettel

References

See the documentation for Armadillo, and RcppArmadillo, for more details.

Examples

```
x <- sqrt(1:4)  
rcpparma_innerproduct(x)  
rcpparma_outerproduct(x)
```

`rcpparma_outerproduct` *rcpparma_outerproduct*

Description

My silly function

Usage

```
rcpparma_outerproduct(x)
```

Arguments

x	A vector for which the outer product is calculated
---	--

Details

A longer description

Value

First	my first item
Second	second element of list

Author(s)

Spencer Woody

Examples

```
x <- rnorm(10)
rcpparma_outerproduct(x)
```

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