

Package ‘staninside’

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Title Facilitating the Use of 'Stan' Within Packages

Version 0.0.4

Description Infrastructure and functions that can be used for integrating 'Stan' (Carpenter et al. (2017) <[doi:10.18637/jss.v076.i01](https://doi.org/10.18637/jss.v076.i01)>) code into stand alone R packages which in turn use the 'CmdStan' engine which is often accessed through 'CmdStanR'. Details given in Stan Development Team (2025) <<https://mc-stan.org/cmdstanr/>>. Using 'CmdStanR' and pre-written 'Stan' code can make package installation easy. Using 'staninside' offers a way to cache user-compiled 'Stan' models in user-specified directories reducing the need to recompile the same model multiple times.

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URL <https://github.com/medewitt/staninside>,
<https://medewitt.github.io/staninside/>

BugReports <https://github.com/medewitt/staninside/issues>

Encoding UTF-8

RoxygenNote 7.3.2

Depends R (>= 3.1)

Suggests knitr, covr, spelling, testthat (>= 3.0.0), rmarkdown

Imports cli, fs, rappdirs

Language en-US

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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clear_stan_cache	<i>Clear Stan Cache</i>
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Description

This function clears anything that may exist in the Stan Cache. Most Commonly if you are using the CmdStan backend, you'll have items in your cache.

Usage

```
clear_stan_cache(pkgname)
```

Arguments

pkgname a string, the name of the package

Value

invisible null

Warning

This will removed cached models and requires that rappdirs is installed

copy_models	<i>Copy Stan Models</i>
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Description

This function extracts the Stan Code from a Package and then copies it to your user cache locally.

Usage

```
copy_models(pkgname = "staninside", local_location = NULL)
```

Arguments

pkgnme a string, the name of the package

local_location a file path representing the desired location of the local copy. If "default" is provided, the function will use the user cache directory for the package.

Value

file path of newly created files

Examples

```
local_location <- tempdir()
copy_models(pkgnme = "staninside", local_location = local_location)
```

find_stan_code *Find Stan Code*

Description

This function looks for Stan code within a given R package and returns a list with the Stan code location within the package and the text of the code,

Usage

```
find_stan_code(pkgnme = "staninside")
```

Arguments

pkgnme a string, the name of the package in which to look for the Stan code.

Value

a list with the Stan code location within the package and the text of the code,

Examples

```
find_stan_code(pkgnme = "staninside")
```

setup_stan_package *Create Package Infrastructure for Stan Package*

Description

Create directory and helper files for a Stan package using CmdStanR

Usage

```
setup_stan_package(loc = NULL, use_all = TRUE)
```

Arguments

loc	a file.path indicating package root.
use_all	a logical indicating if each section of Stan code should have it's own directory with a default of TRUE

Value

invisible null

Examples

```
# Create Temporary Directory
temp_dir <- tempdir()

# Now setup the structur
setup_stan_package(loc = temp_dir)

# Examine output

list.files(temp_dir, recursive = TRUE)
```

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