

Package ‘rstantools’

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Description Provides various tools for developers of R packages interfacing with 'Stan' <<https://mc-stan.org>>, including functions to set up the required package structure, S3 generics and default methods to unify function naming across 'Stan'-based R packages, and vignettes with recommendations for developers.

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URL <https://mc-stan.org/rstantools/>, <https://discourse.mc-stan.org/>

BugReports <https://github.com/stan-dev/rstantools/issues>

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rstantools-package *Tools for Developing R Packages Interfacing with Stan*

Description

Stan Development Team

The **rstantools** package provides various tools for developers of R packages interfacing with Stan (<https://mc-stan.org>), including functions to set up the required package structure, S3 generic methods to unify function naming across Stan-based R packages, and vignettes with guidelines for developers. To get started building a package see `rstan_create_package()`.

See Also

- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.
- After reading the guidelines for developers, if you have trouble setting up your package let us know on the the [Stan Forums](#) or at the **rstantools** GitHub [issue tracker](#).
- The useR2016 presentation [How to Use \(R\)Stan to Estimate Models in External R Packages](#).

`bayes_R2`*Generic function and default method for Bayesian R-squared*

Description

Generic function and default method for Bayesian version of R-squared for regression models. A generic for LOO-adjusted R-squared is also provided. See the `bayes_R2.stanreg()` method in the **rstanarm** package for an example of defining a method.

Usage

```
bayes_R2(object, ...)  
  
## Default S3 method:  
bayes_R2(object, y, ...)  
  
loo_R2(object, ...)
```

Arguments

<code>object</code>	The object to use.
<code>...</code>	Arguments passed to methods. See the methods in the rstanarm package for examples.
<code>y</code>	For the default method, a vector of y values the same length as the number of columns in the matrix used as <code>object</code> .

Value

`bayes_R2()` and `loo_R2()` methods should return a vector of length equal to the posterior sample size.

The default `bayes_R2()` method just takes `object` to be a matrix of y-hat values (one column per observation, one row per posterior draw) and `y` to be a vector with length equal to `ncol(object)`.

References

Andrew Gelman, Ben Goodrich, Jonah Gabry, and Aki Vehtari (2018). R-squared for Bayesian regression models. *The American Statistician*, to appear. DOI: 10.1080/00031305.2018.1549100. ([Preprint](#), [Notebook](#))

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](#), [GitHub](#)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

init_cpp	<i>Register functions implemented in C++</i>
----------	--

Description

If you set up your package using `rstan_package_skeleton()` before version 1.2.1 of **rstantools** it may be necessary for you to call this function yourself in order to pass R CMD check in R \geq 3.4. If you used `rstan_package_skeleton()` in **rstantools** version 1.2.1 or later then this has already been done automatically.

Usage

```
init_cpp(name, path)
```

Arguments

name	The name of your package as a string.
path	The path to the root directory for your package as a string. If not specified it is assumed that this is already the current working directory.

Value

This function is only called for its side effect of writing the necessary `init.cpp` file to the package's `src/` directory.

log_lik	<i>Generic function for pointwise log-likelihood</i>
---------	--

Description

We define a new function `log_lik()` rather than a `stats::logLik()` method because (in addition to the conceptual difference) the documentation for `logLik()` states that the return value will be a single number, whereas `log_lik()` returns a matrix. See the `log_lik.stanreg()` method in the **rstanarm** package for an example of defining a method.

Usage

```
log_lik(object, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.

Value

`log_lik()` methods should return a S by N matrix, where S is the size of the posterior sample (the number of draws from the posterior distribution) and N is the number of data points.

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](https://cran.r-project.org/web/packages/rstanarm/index.html), [GitHub](https://github.com/stan-dev/rstanarm)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

Examples

```
# See help("log_lik", package = "rstanarm")
```

loo-prediction	<i>Generic functions for LOO predictions</i>
----------------	--

Description

See the methods in the **rstanarm** package for examples.

Usage

```
loo_linpred(object, ...)  
loo_predict(object, ...)  
loo_predictive_interval(object, ...)  
loo_pit(object, ...)  
  
## Default S3 method:  
loo_pit(object, y, lw, ...)
```

Arguments

<code>object</code>	The object to use.
<code>...</code>	Arguments passed to methods. See the methods in the rstanarm package for examples.
<code>y</code>	For the default method of <code>loo_pit()</code> , a vector of <code>y</code> values the same length as the number of columns in the matrix used as <code>object</code> .
<code>lw</code>	For the default method of <code>loo_pit()</code> , a matrix of log-weights of the same length as the number of columns in the matrix used as <code>object</code> .

Value

`loo_predict()`, `loo_linpred()`, and `loo_pit()` (probability integral transform) methods should return a vector with length equal to the number of observations in the data. `loo_predictive_interval()` methods should return a two-column matrix formatted in the same way as for `predictive_interval()`.

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](#), [GitHub](#)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

 nsamples

Generic function for extracting the number of posterior samples

Description

Extract the number of posterior samples stored in a fitted Bayesian model.

Usage

```
nsamples(object, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.

 posterior_epred

Generic function for accessing the posterior distribution of the conditional expectation

Description

Extract the posterior draws of the conditional expectation. See the **rstanarm** package for an example.

Usage

```
posterior_epred(object, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.

Value

posterior_epred() methods should return a D by N matrix, where D is the number of draws from the posterior distribution and N is the number of data points.

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](#), [GitHub](#)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

posterior_interval	<i>Generic function and default method for posterior uncertainty intervals</i>
--------------------	--

Description

These intervals are often referred to as credible intervals, but we use the term uncertainty intervals to highlight the fact that wider intervals correspond to greater uncertainty. See [posterior_interval.stanreg\(\)](#) in the **rstanarm** package for an example.

Usage

```
posterior_interval(object, ...)
```

```
## Default S3 method:
posterior_interval(object, prob = 0.9, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.
prob	A number $p \in (0, 1)$ indicating the desired probability mass to include in the intervals.

Value

`posterior_interval()` methods should return a matrix with two columns and as many rows as model parameters (or a subset of parameters specified by the user). For a given value of `prob`, p , the columns correspond to the lower and upper $100p\%$ have the names $100\alpha/2\%$ $\alpha = 1 - p$. For example, if `prob=0.95` is specified (a 90% "95%", respectively).

The default method just takes `object` to be a matrix (one column per parameter) and computes quantiles, with `prob` defaulting to 0.9.

See Also

- The `rstanarm` package (mc-stan.org/rstanarm) for example methods ([CRAN](#), [GitHub](#)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with `rstantools` and at mc-stan.org/rstantools/articles.

Examples

```
# Default method takes a numeric matrix (of posterior draws)
draws <- matrix(rnorm(100 * 5), 100, 5) # fake draws
colnames(draws) <- paste0("theta_", 1:5)
posterior_interval(draws)

# Also see help("posterior_interval", package = "rstanarm")
```

`posterior_linpred` *Generic function for accessing the posterior distribution of the linear predictor*

Description

Extract the posterior draws of the linear predictor, possibly transformed by the inverse-link function. See `posterior_linpred.stanreg()` in the `rstanarm` package for an example.

Usage

```
posterior_linpred(object, transform = FALSE, ...)
```

Arguments

<code>object</code>	The object to use.
<code>transform</code>	Should the linear predictor be transformed using the inverse-link function? The default is <code>FALSE</code> , in which case the untransformed linear predictor is returned.
<code>...</code>	Arguments passed to methods. See the methods in the <code>rstanarm</code> package for examples.

Value

posterior_linpred() methods should return a D by N matrix, where D is the number of draws from the posterior distribution and N is the number of data points.

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](#), [GitHub](#)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

Examples

```
# See help("posterior_linpred", package = "rstanarm")
```

posterior_predict	<i>Generic function for drawing from the posterior predictive distribution</i>
-------------------	--

Description

Draw from the posterior predictive distribution of the outcome. See `posterior_predict.stanreg()` in the **rstanarm** package for an example.

Usage

```
posterior_predict(object, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.

Value

posterior_predict() methods should return a D by N matrix, where D is the number of draws from the posterior predictive distribution and N is the number of data points being predicted per draw.

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](#), [GitHub](#)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

Examples

```
# See help("posterior_predict", package = "rstanarm")
```

predictive_error	<i>Generic function and default method for predictive errors</i>
------------------	--

Description

Generic function and default method for computing predictive errors $y - y^{rep}$ (in-sample, for observed y) or $y - \tilde{y}$ (out-of-sample, for new or held-out y). See `predictive_error.stanreg()` in the **rstanarm** package for an example.

Usage

```
predictive_error(object, ...)

## Default S3 method:
predictive_error(object, y, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.
y	For the default method, a vector of y values the same length as the number of columns in the matrix used as object.

Value

`predictive_error()` methods should return a D by N matrix, where D is the number of draws from the posterior predictive distribution and N is the number of data points being predicted per draw.

The default method just takes `object` to be a matrix and `y` to be a vector.

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](https://cran.r-project.org/web/packages/rstanarm/index.html), [GitHub](https://github.com/stan-dev/rstanarm)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

Examples

```
# default method
y <- rnorm(10)
ypred <- matrix(rnorm(500), 50, 10)
pred_errors <- predictive_error(ypred, y)
dim(pred_errors)
head(pred_errors)

# Also see help("predictive_error", package = "rstanarm")
```

predictive_interval *Generic function for predictive intervals*

Description

See `predictive_interval.stanreg()` in the **rstanarm** package for an example.

Usage

```
predictive_interval(object, ...)

## Default S3 method:
predictive_interval(object, prob = 0.9, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.
prob	A number $p \in (0, 1)$ indicating the desired probability mass to include in the intervals.

Value

`predictive_interval()` methods should return a matrix with two columns and as many rows as data points being predicted. For a given value of $prob$, p , the columns correspond to the lower and upper $100p\%$ and $100(1 - p)\%$ quantiles. For example, if $prob=0.9$ is specified (a 90% interval), the columns would be "5%" and "95%", respectively.

The default method just takes `object` to be a matrix and computes quantiles, with `prob` defaulting to 0.9 .

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](https://cran.r-project.org/web/packages/rstanarm/index.html), [GitHub](https://github.com/stan-dev/rstanarm)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

Examples

```
# Default method takes a numeric matrix (of draws from posterior
# predictive distribution)
ytilde <- matrix(rnorm(100 * 5, sd = 2), 100, 5) # fake draws
predictive_interval(ytilde, prob = 0.8)

# Also see help("predictive_interval", package = "rstanarm")
```

prior_summary

Generic function for extracting information about prior distributions

Description

See `prior_summary.stanreg()` in the **rstanarm** package for an example.

Usage

```
prior_summary(object, ...)

## Default S3 method:
prior_summary(object, ...)
```

Arguments

object	The object to use.
...	Arguments passed to methods. See the methods in the rstanarm package for examples.

Value

`prior_summary()` methods should return an object containing information about the prior distribution(s) used for the given model. The structure of this object will depend on the method.

The default method just returns `object$prior.info`, which is `NULL` if there is no `'prior.info'` element.

See Also

- The **rstanarm** package (mc-stan.org/rstanarm) for example methods ([CRAN](https://cran.r-project.org/web/packages/rstanarm/index.html), [GitHub](https://github.com/stan-dev/rstanarm)).
- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.

Examples

```
# See help("prior_summary", package = "rstanarm")
```

rstan_config	<i>Configure system files for compiling Stan source code</i>
--------------	--

Description

Creates or update package-specific system files to compile .stan model files found in inst/stan.

Usage

```
rstan_config(pkgdir = ".")
```

Arguments

pkgdir Path to package root folder.

Details

The Stan source files for the package should be stored in:

- inst/stan for .stan files containing instructions to build a stanmodel object.
- inst/stan/any_subfolder for files to be included via the #include "/my_subfolder/mylib.stan" directive.
- inst/stan/any_subfolder for a license.stan file.
- inst/include for the stan_meta_header.hpp file, to be used for directly interacting with the Stan C++ libraries.

Value

Invisibly, whether or not any files were added/removed/modified by the function.

rstan_create_package	<i>Create a new R package with compiled Stan programs</i>
----------------------	---

Description

The rstan_create_package() function helps get you started developing a new R package that interfaces with Stan via the **rstan** package. First the basic package structure is set up via `usethis::create_package()`. Then several adjustments are made so the package can include Stan programs that can be built into binary versions (i.e., pre-compiled Stan C++ code).

The **Details** section below describes the process and the **See Also** section provides links to recommendations for developers and a step-by-step walk-through.

As of version 2.0.0 of **rstantools** the rstan_package_skeleton() function is defunct and only rstan_create_package() is supported.

Usage

```
rstan_create_package(
  path,
  fields = NULL,
  rstudio = TRUE,
  open = TRUE,
  stan_files = character(),
  roxygen = TRUE,
  travis = FALSE,
  license = TRUE,
  auto_config = TRUE
)
```

Arguments

path	The path to the new package to be created (terminating in the package name).
fields, rstudio, open	Same as <code>usethis::create_package()</code> . See the documentation for that function, especially the note in the Description section about the side effect of changing the active project.
stan_files	A character vector with paths to <code>.stan</code> files to include in the package.
roxygen	Should roxygen2 be used for documentation? Defaults to TRUE. If so, a file <code>'R/pkgname-package.R'</code> is added to the package with roxygen tags for the required import lines. See the Note section below for advice specific to the latest versions of roxygen2 .
travis	Should a <code>.travis.yml</code> file be added to the package directory? This argument is now deprecated. We recommend using GitHub Actions to set up automated testings for your package. See https://github.com/r-lib/actions for useful templates.
license	Logical or character; whether or not to paste the contents of a <code>license.stan</code> file at the top of all Stan code, or path to such a file. If TRUE (the default) adds the GPL (≥ 3) license (see Details).
auto_config	Whether to automatically configure Stan functionality whenever the package gets installed (see Details). Defaults to TRUE.

Details

This function first creates a regular R package using `usethis::create_package()`, then adds the infrastructure required to compile and export `stanmodel` objects. In the package root directory, the user's Stan source code is located in:

```
inst/
  |_stan/
    |   |_include/
    |
    |_include/
```

All `.stan` files containing instructions to build a `stanmodel` object must be placed in `inst/stan`. Other `.stan` files go in any `stan/` subdirectory, to be invoked by Stan's `#include` mechanism, e.g.,

```
#include "include/mylib.stan"
#include "data/preprocess.stan"
```

See **rstanarm** for many examples.

The folder `inst/include` is for all user C++ files associated with the Stan programs. In this folder, the only file to directly interact with the Stan C++ library is `stan_meta_header.hpp`; all other `#include` directives must be channeled through here.

The final step of the package creation is to invoke `rstan_config()`, which creates the following files for interfacing with Stan objects from R:

- `src` contains the `stan_ModelName{.cc/.hpp}` pairs associated with all `ModelName.stan` files in `inst/stan` which define `stanmodel` objects.
- `src/Makevars[.win]` which link to the StanHeaders and Boost (BH) libraries.
- `R/stanmodels.R` loads the C++ modules containing the `stanmodel` class definitions, and assigns an R instance of each `stanmodel` object to a `stanmodels` list (with names corresponding to the names of the Stan files).

When `auto_config = TRUE`, a `configure[.win]` file is added to the package, calling `rstan_config()` whenever the package is installed. Consequently, the package must list **rstantools** in the DESCRIPTION Imports field for this mechanism to work. Setting `auto_config = FALSE` removes the package's dependency on **rstantools**, but the package then must be manually configured by running `rstan_config()` whenever `stanmodel` files in `inst/stan` are added, removed, or modified.

In order to enable Stan functionality, **rstantools** copies some files to your package. Since these files are licensed as GPL= 3, the same license applies to your package should you choose to distribute it. Even if you don't use **rstantools** to create your package, it is likely that you will be linking to **Repp** to export the Stan C++ `stanmodel` objects to R. Since **Repp** is released under GPL >= 2, the same license would apply to your package upon distribution.

Authors willing to license their Stan programs of general interest under the GPL are invited to contribute their `.stan` files and supporting R code to the **rstanarm** package.

Using the pre-compiled Stan programs in your package

The `stanmodel` objects corresponding to the Stan programs included with your package are stored in a list called `stanmodels`. To run one of the Stan programs from within an R function in your package just pass the appropriate element of the `stanmodels` list to one of the **rstan** functions for model fitting (e.g., `sampling()`). For example, for a Stan program `"foo.stan"` you would use `rstan::sampling(stanmodels$foo, ...)`.

Note

For **devtools** users, because of changes in the latest versions of **roxygen2** it may be necessary to run `pkgbuild::compile_dll()` once before `devtools::document()` will work.

See Also

- `use_rstan()` for adding Stan functionality to an existing R package and `rstan_config()` for updating an existing package when its Stan files are changed.
- The **rstanarm** package [repository](#) on GitHub.

- Guidelines and recommendations for developers of R packages interfacing with Stan and a demonstration getting a simple package working can be found in the vignettes included with **rstantools** and at mc-stan.org/rstantools/articles.
- After reading the guidelines for developers, if you have trouble setting up your package let us know on the the [Stan Forums](#) or at the **rstantools** GitHub [issue tracker](#).
- The useR2016 presentation [How to Use \(R\)Stan to Estimate Models in External R Packages](#).

 use_rstan

Add Stan infrastructure to an existing package

Description

Add Stan infrastructure to an existing R package. To create a *new* package containing Stan programs use `rstan_create_package()` instead.

Usage

```
use_rstan(pkgdir = ".", license = TRUE, auto_config = TRUE)
```

Arguments

<code>pkgdir</code>	Path to package root folder.
<code>license</code>	Logical or character; whether or not to paste the contents of a <code>license.stan</code> file at the top of all Stan code, or path to such a file. If TRUE (the default) adds the GPL (≥ 3) license (see Details).
<code>auto_config</code>	Whether to automatically configure Stan functionality whenever the package gets installed (see Details). Defaults to TRUE.

Details

Prepares a package to compile and use Stan code by performing the following steps:

1. Create `inst/stan` folder where all `.stan` files defining Stan models should be stored.
2. Create `inst/stan/include` where optional `license.stan` file is stored.
3. Create `inst/include/stan_meta_header.hpp` to include optional header files used by Stan code.
4. Create `src` folder (if it doesn't exist) to contain the Stan C++ code.
5. Create `R` folder (if it doesn't exist) to contain wrapper code to expose Stan C++ classes to R.
6. Update `DESCRIPTION` file to contain all needed dependencies to compile Stan C++ code.
7. If `NAMESPACE` file is generic (i.e., created by `rstan_create_package()`), append `import(Rcpp, methods)`, `importFrom(rstan, sampling)`, and `useDynLib` directives. If `NAMESPACE` is not generic, display message telling user what to add to `NAMESPACE` for themselves.

When `auto_config = TRUE`, a `configure[.win]` file is added to the package, calling `rstan_config()` whenever the package is installed. Consequently, the package must list **rstantools** in the DESCRIPTION Imports field for this mechanism to work. Setting `auto_config = FALSE` removes the package's dependency on **rstantools**, but the package then must be manually configured by running `rstan_config()` whenever `stanmodel` files in `inst/stan` are added, removed, or modified.

Value

Invisibly, TRUE or FALSE indicating whether or not any files or folders were created or modified.

Using the pre-compiled Stan programs in your package

The `stanmodel` objects corresponding to the Stan programs included with your package are stored in a list called `stanmodels`. To run one of the Stan programs from within an R function in your package just pass the appropriate element of the `stanmodels` list to one of the **rstan** functions for model fitting (e.g., `sampling()`). For example, for a Stan program "foo.stan" you would use `rstan::sampling(stanmodels$foo, ...)`.

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