

Package ‘shinybrms’

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Title Graphical User Interface ('shiny' App) for 'brms'

Version 1.8.1

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Description A graphical user interface (GUI) for fitting Bayesian regression models using the package 'brms' which in turn relies on 'Stan' (<<https://mc-stan.org/>>). The 'shinybrms' GUI is a 'shiny' app.

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URL <https://fweber144.github.io/shinybrms/>

BugReports <https://github.com/fweber144/shinybrms/issues>

Depends R (>= 3.6.0)

Imports shiny (>= 1.7.0), brms (>= 2.16.0), rstan (>= 2.19.3), rlang

Suggests cmdstanr, posterior, ggplot2, shinystan (>= 2.4.0), callr (>= 3.4.0), rstanarm, MASS, lme4, testthat (>= 3.0.0), shinytest2

Additional_repositories <https://stan-dev.r-universe.dev/>

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launch_shinybrms	<i>Launch the shinybrms app</i>
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Description

This function launches the **shinybrms** app.

Usage

```
launch_shinybrms(...)
```

Arguments

... Arguments passed to `shiny::runApp()`. For example, in order to force the **shinybrms** app to launch in the system's default web browser (e.g., if using RStudio), set argument `launch.browser` to `TRUE`.

Value

`TRUE` (invisible).

Note

The following global options are introduced by **shinybrms**:

- `shinybrms.allow_upd`: Mainly for internal testing purposes. A single logical value indicating whether updating a previous model fit using `brms::update.brmsfit()` is allowed. Defaults to `TRUE`.
- `shinybrms.prog_browser`: The value for the global option browser to be used for opening the **Stan** progress file (an HTML file). Defaults to option browser (see `base::options()`). Note that RStudio's default for option browser cannot be used for the Stan progress file. Therefore, **shinybrms** automatically redefines RStudio's default for option browser to fix this issue.
- `shinybrms.shinystan_browser`: The value for the global option browser to be used for opening the **shinystan** app. Defaults to option browser (see `base::options()`). Note that RStudio's default for option browser cannot be used for opening the **shinystan** app from within **shinybrms**. Therefore, **shinybrms** automatically redefines RStudio's default for option browser to fix this issue.

External global options used by **shinybrms** are:

- `shiny.maxRequestSize` (see `shiny::shinyOptions()`): If not specified by the user, then **shinybrms** uses a value of $50 * 1024^2$ (corresponding to 50 MB).

- warn (see `base::options()`): Set and reset internally (necessary for capturing some warning messages).
- browser (see `base::options()`): Set and reset internally (see above).
- mc.cores (see `base::options()`): If option `mc.cores` is set, then the advanced option "Cores" (in the **shinybrms** app) defaults to the value of this option. If option `mc.cores` is not set, then "Cores" defaults to 1 (i.e., sequential, not parallel computation).
- brms.backend (see `brms::brm()`): If option `brms.backend` is set, then the advanced option "Backend" (in the **shinybrms** app) defaults to the value of this option. If option `brms.backend` is not set, then the advanced option "Backend" defaults to "rstan".

Note that **shinystan**'s global option `shinystan.rstudio` (see `shinystan::launch_shinystan()`) may not be used here as **shinystan** is called from an external R process where RStudio's browsers are not available.

References

Weber F, Ickstadt K, and Glass Ä (2022). **shinybrms**: Fitting Bayesian Regression Models Using a Graphical User Interface for the R Package **brms**. *The R Journal* 14(2): 96–120. doi:10.32614/RJ2022027.

Examples

```
if (interactive()) {  
  launch_shinybrms(launch.browser = TRUE)  
}
```

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