

# Package ‘shinybrms’

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

**Version** 1.8.0

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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, ggplot2, shinystan (>= 2.4.0), callr (>= 3.4.0), rstanarm, MASS, lme4, testthat, shinytest

**Additional\_repositories** <https://mc-stan.org/r-packages/>

**Encoding** UTF-8

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**NeedsCompilation** no

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launch\_shinybrms      *Launch the shinybrms app*

### 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 (even 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 catching 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 the advanced option "Cores" defaults to the value returned by `parallel::detectCores()`.
- 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.

### Examples

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

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