

Package ‘dosedesignR’

February 20, 2023

Type Package

Title Interactive Designing of Dose Finding Studies

Version 0.3.0

Author F. Mendolia, K. Walkamp, K. Roth, T. Schmelter, C. Neumann, Z. Gao, A. Kaiser, S. Jeske, H. Kulmann

Maintainer T. Schmelter <thomas.schmelter@bayer.com>

Description Provides the user with an interactive application which can be used to facilitate the planning of dose finding studies by applying the theory of optimal experimental design.

Depends R (>= 3.6.0)

License GPL-3

Encoding UTF-8

Imports utils, shiny, DT, latticeExtra, ggplot2, shinyjs, purrr, stringr, shinyWidgets, DoseFinding, shinyBS, readxl, knitr, kableExtra, Rsolnp

VignetteBuilder knitr

NeedsCompilation no

RoxygenNote 7.2.3

Repository CRAN

Date/Publication 2023-02-20 13:00:07 UTC

R topics documented:

run_dosedesignR 2

Index 4

run_dosedesignR *run_dosedesignR - Launches the Shiny application*

Description

Starts the dosedesignR application in the client's browser.

Usage

```
run_dosedesignR(
  ColorBG = "#424242",
  ColorText = "#828282",
  browser = getOption("shiny.launch.browser", interactive()),
  host = NULL,
  port = NULL,
  numberCandidateModels = 4
)
```

Arguments

ColorBG	background color (defaults to "#424242")
ColorText	text color (defaults to "#828282")
browser	path to browser exe (defaults to standard browser)
host	host link (defaults to the local machine "127.0.0.1")
port	port number (randomly chosen unless specified as a certain number)
numberCandidateModels	number of panels(default: 6)

Details

Further information on how to use this application can be found in the vignette of this package.

Examples

```
if(interactive()){
## Launch application on localhost (127.0.0.1)
## -----
## By default run_dosedesignR starts the application on localhost
## and a randomly selected port (e.g. 9876), in which case you can connect
## to the running application by navigating your browser to
## http://localhost:9876.
run_dosedesignR()

## Launch application on a different host
## -----
## You can also run the application on a different host
## by specifying a hostname and port. Just make sure to
```

```
## use an open port on your machine. Here "open" means
## that the port should not be used by another service
## and the port is opened by your firewall.
run_dosedesignR(host="your-hostname", port=8888)

## Make the application available to your coworkers
## -----
## within your local area network even without a
## dedicated Shiny server. The value set through the
## host argument says to accept any connection (not just from localhost).
## Then take note of your local IP (if you are under linux,
## you can see it through ifconfig). Say your IP is 192.168.1.70.
## Your colleagues can use your app by inserting in the address
## bar of their browser 192.168.1.70:8888, i.e. your IP followed
## by : and the port number you selected.
run_dosedesignR(host="0.0.0.0", port=8888)

## Launch application on a different browser
## -----
## To run the shiny app on a different browser than your standard browser
## use the "browser" argument to set the path to the respective .exe file.
runDoseDesignR(browser = "C:/Program Files/Mozilla Firefox/firefox.exe")
}
```

Index

* **dosedesignR**

run_dosedesignR, [2](#)

run_dosedesignR, [2](#)