Package ‘dosedesignR’

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Type Package
Title Interactive Designing of Dose Finding Studies
Version 0.3.0
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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,
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VignetteBuilder knitr
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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)
  run_dosedesignR()

  ## Launch application on a different host
  run_dosedesignR()

  ## 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

  ## 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")
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