

Package: ugplot (via r-universe)

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Type Package

Title Find the best Caret model for your data and generate plots for papers

Version 20260531.1

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Description Is an R library that uses shiny to assists in finding relationships between columns of a data matrix in three ways:
1. With heatmap and distribution graphics. 2. With Pearson correlation graphics. 3. By conducting prediction tests using models from the Caret library.

License GPL-3

Encoding UTF-8

LazyData true

SystemRequirements C/C++ build tools; libcurl (development headers); libuv (development headers); libsodium (development headers)

Imports shiny, shinyWidgets, shinyjs, shinybusy, ggplot2, heatmap3, DT, gplots, viridis, RColorBrewer, dendextend, pheatmap, randomForest, glmnet, plotly, htmltools, htmlwidgets, tidyr, missForest, caret, base64enc, ggExtra, gridExtra, parallel, doParallel, foreach, R.utils, ConsensusClusterPlus, gam

Suggests Biobase, callr, BiocManager, curl, GEOquery, GenomicFeatures, GenomicRanges, httr, IlluminaHumanMethylation450kanno.ilmn12.hg19, IlluminaHumanMethylationEPICanno.ilm10b4.hg19, jsonlite, methyLimp2, minfi, plumber, sesame, sesameData, S4Vectors, testthat (>= 3.0.0), TxDb.Hsapiens.UCSC.hg19.refGene, torch, withr

Config/testthat/edition 3

URL <https://github.com/a00s/ugplot>

BugReports <https://github.com/a00s/ugplot/issues>

RoxygenNote 7.3.2

Config/pak/sysreqs cmake make libicu-dev libsodium-dev libuv1-dev libssl-dev zlib1g-dev

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ugplot-package	<i>ugplot: exploratory plots and model screening</i>
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Description

The **ugplot** package provides an interactive Shiny application to inspect data, create visual summaries, and evaluate predictive models.

ugPlot	<i>Launch the ugplot Shiny application</i>
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Description

Starts the ugplot Shiny interface used to explore data relationships with heatmaps, 2D plots and predictive modeling workflows.

Usage

```
ugPlot(dataset = data.frame())
```


Usage

```
ugPlotInstallModelDeps(
  models = NULL,
  install = TRUE,
  dependencies = TRUE,
  exclude_models = character()
)
```

Arguments

`models` Optional character vector of caret model names. Defaults to all caret models.

`install` Whether to install missing packages.

`dependencies` Passed to `install.packages()`.

`exclude_models` Optional character vector of caret model names to skip.

Value

Invisibly returns dependency status after the attempted installation.

`ugPlotInstallServerDeps`

Install ugplot server dependencies

Description

Checks system dependencies required by the remote job server and installs the optional R packages used by `ugPlotServer()`.

Usage

```
ugPlotInstallServerDeps(
  install = TRUE,
  dependencies = TRUE,
  install_model_deps = FALSE,
  install_geo_deps = TRUE
)
```

Arguments

`install` Whether to install missing R packages.

`dependencies` Passed to `install.packages()`.

`install_model_deps` Whether to install packages required by missing caret models too. Defaults to FALSE because this can install many packages.

`install_geo_deps` Whether to install optional Bioconductor packages required for GEO methylation annotation and raw IDAT/sesame workflows.

Value

Invisibly returns a list with system and R dependency status.

ugPlotServer	<i>Start a ugplot job server</i>
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Description

Starts an HTTP server that can receive datasets, run jobs in background R processes, report progress, and return completed results.

Usage

```
ugPlotServer(  
  host = "0.0.0.0",  
  port = 8080,  
  jobs_dir = ugplot_default_jobs_dir(),  
  token = "",  
  name = "default",  
  register = TRUE  
)
```

Arguments

host	Interface to bind. Use "0.0.0.0" for remote access.
port	Port to listen on.
jobs_dir	Directory used to persist datasets, status and results.
token	Optional bearer token. Defaults to no authentication.
name	Local server handle name used by status/stop when the server is started directly.
register	Whether to write a local state file for status/stop.

Value

The plumber server result.

ugPlotServerStart *Start a ughplot job server in the background*

Description

Starts ugPlotServer() in a detached R process and immediately returns control to the console.

Usage

```
ugPlotServerStart(
  host = "0.0.0.0",
  port = 8080,
  jobs_dir = ughplot_default_jobs_dir(),
  token = "",
  name = "default"
)
```

Arguments

host	Interface to bind.
port	Port to listen on.
jobs_dir	Directory used to persist datasets, status and results.
token	Optional bearer token. Defaults to no authentication.
name	Local server handle name used by status/stop.

Value

Invisibly returns the server state.

ugPlotServerStatus *Get background ughplot job server status*

Description

Get background ughplot job server status.

Usage

```
ugPlotServerStatus(name = "default", port = NULL)
```

Arguments

name	Local server handle name.
port	Optional port used to discover a server when no live state file is available. Defaults to the saved state port, or 8080 when there is no state.

Value

A list with server metadata and running state.

ugPlotServerStop *Stop a background ugplot job server*

Description

Stop a background ugplot job server.

Usage

```
ugPlotServerStop(name = "default", port = NULL)
```

Arguments

name	Local server handle name.
port	Optional port used to discover and stop a server when no live state file is available. Defaults to the saved state port, or 8080 when there is no state.

Value

Invisibly returns TRUE when a process was stopped.

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