

Package: geyser (via r-universe)

May 27, 2026

Title Gene Expression displaYer of SummarizedExperiment in R

Version 1.4.0

Description Lightweight Expression displaYer (plotter / viewer) of SummarizedExperiment object in R. This package provides a quick and easy Shiny-based GUI to empower a user to use a SummarizedExperiment object to view

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LazyData false

biocViews Software, ShinyApps, GUI, GeneExpression

Imports bslib (>= 0.6.0), BiocStyle, ComplexHeatmap, cowplot, dplyr, DT, ggbeeswarm, ggplot2, ggrepel, ggh4x, htmltools, magrittr, pals, RColorBrewer, rlang, R.utils, shiny, shinyjs, S4Vectors, SummarizedExperiment, tibble, tidyselect, tidy, yml

Suggests airway, knitr, DESeq2, rmarkdown, stringr, testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

Encoding UTF-8

URL <https://github.com/davemcg/geyser>

BugReports <https://github.com/davemcg/geyser/issues>

RoxygenNote 7.3.2

Config/pak/sysreqs cmake make libicu-dev libpng-dev libuv1-dev perl zlib1g-dev

Repository <https://bioc-release.r-universe.dev>

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RemoteUrl <https://github.com/bioc/geyser>

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apply_config	<i>Configuration Helper Functions for Geyser</i>
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Description

Functions to handle loading, saving, and applying configurations

Apply a configuration to the Shiny session

Usage

```
apply_config(config, session, rv)
```

Arguments

config	List containing configuration parameters
session	Shiny session object
rv	reactiveValues object containing app state

apply_embedded_config	<i>Apply embedded config from SummarizedExperiment if present</i>
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Description

Apply embedded config from SummarizedExperiment if present

Usage

```
apply_embedded_config(rse, session, rv)
```

Arguments

rse	SummarizedExperiment object
session	Shiny session object
rv	reactiveValues object

`apply_pending_group_filters`
Apply pending group filters to dynamic UI

Description

Apply pending group filters to dynamic UI

Usage

```
apply_pending_group_filters(rv, input, session)
```

Arguments

<code>rv</code>	reactiveValues object
<code>input</code>	Shiny input object
<code>session</code>	Shiny session object

`apply_pending_sample_filter`
Apply pending sample filter to table

Description

Apply pending sample filter to table

Usage

```
apply_pending_sample_filter(rv, input)
```

Arguments

<code>rv</code>	reactiveValues object
<code>input</code>	Shiny input object

create_config_download_handler
Create configuration download handler

Description

Create configuration download handler

Usage

```
create_config_download_handler(input)
```

Arguments

input Shiny input object

extract_config_from_metadata
Extract geysers config from SummarizedExperiment metadata

Description

Extract geysers config from SummarizedExperiment metadata

Usage

```
extract_config_from_metadata(rse)
```

Arguments

rse SummarizedExperiment object

Value

List containing config or NULL if not found

geyser	<i>geyser</i>
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Description

Run shiny app to use SummarizedExperiment object to display genomics data

Usage

```
geyser(  
  rse = NULL,  
  app_name = "geyser",  
  primary_color = "#3A5836",  
  secondary_color = "#d5673e",  
  computer_data_dir = NULL  
)
```

Arguments

rse	SummarizedExperiment object. If NULL (the default), the app will start with a file upload screen.
app_name	Title name that goes on the top left of the Shiny app
primary_color	The title bar color
secondary_color	The plot action button color
computer_data_dir	Optional folder path to existing SummarizedExperiment RDS files.

Value

A Shiny app object

Examples

```
if (interactive()) {  
  load(system.file('extdata/tiny_rse.Rdata', package = 'geyser'))  
  geyser(tiny_rse, "Test RSE")  
}
```

setup_config_preset_observer

Setup configuration preset observer

Description

Setup configuration preset observer

Usage

```
setup_config_preset_observer(input, session, rv)
```

Arguments

input	Shiny input object
session	Shiny session object
rv	reactiveValues object

setup_config_upload_observer

Setup configuration upload observer

Description

Setup configuration upload observer

Usage

```
setup_config_upload_observer(input, session, rv)
```

Arguments

input	Shiny input object
session	Shiny session object
rv	reactiveValues object

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