

Package ‘interactiveDisplayBase’

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Type Package

Title Base package for enabling powerful shiny web displays of
Bioconductor objects

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Imports shiny, DT

Depends R (>= 2.10), methods, BiocGenerics

Suggests knitr, markdown

Enhances rstudioapi

Description The interactiveDisplayBase package contains the the basic
methods needed to generate interactive Shiny based display
methods for Bioconductor objects.

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Collate interactiveDisplayBase.R dataframe.R dot_runApp.R zzz.R

VignetteBuilder knitr

biocViews GO, GeneExpression, Microarray, Sequencing, Classification,
Network, QualityControl, Visualization, Visualization,
Genetics, DataRepresentation, GUI, AnnotationData, ShinyApps

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| | |
|---------|--|
| .runApp | <i>Run a shiny app, capturing results to the R session</i> |
|---------|--|

Description

This utility function launches a shiny visualization application, either in the RStudio viewer pane (if run under RStudio) or in the browser.

Usage

```
.runApp(app, ...)
```

Arguments

| | |
|-----|---|
| app | The shiny application definition, see ?shiny::runApp. |
| ... | additional arguments passed to shiny::runApp(). |

Value

The return value of shiny::runApp.

Author(s)

Martin Morgan

Examples

```
if (interactive()) {
  require(shiny)

  app <- list(
    ui = fluidPage(
      title="Who Am I?",
      sidebarLayout(
        position="left",
        sidebarPanel(
          h1("Your name"),
          textInput("your_name", "Your name?", "Anonymous"),
          actionButton("done", "Done")),
        mainPanel(
          "Hi", textOutput("your_name", inline=TRUE))
      )),
  )
```

```
server = function(input, output) {
  output$your_name <- renderText(input$your_name)
  observe({
    if (input$done > 0)
      isolate(stopApp(returnValue = input$your_name))
  })
})

.runApp(app)
}
```

display

display: Open a Shiny application for a Bioconductor object

Description

This opens a shiny visualization application in the browser based on the submitted object.

Usage

```
display(object, ...)
```

Arguments

| | |
|--------|---|
| object | data object to display |
| ... | additional arguments passed to methods; currently unused. |

Value

Usually some variation of the initial input object, but it may be altered by the display widget (subset for example).

Author(s)

Shawn Balcome and Marc Carlson

See Also

<http://bioconductor.org/packages/2.13/bioc/html/interactiveDisplayBase.html>

Examples

```
if(interactive()) {
  ## draw a data.frame
  display(mtcars)

  ## subset a data.frame:
```

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display

```
mtcars2 <- display(mtcars)
```

```
}
```

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