

Package: sdv (via r-universe)

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Type Package

Title Open R Objects in 'StatDataViewer' from 'RStudio'

Version 0.1.0

Description An 'RStudio' addin that sends objects from the R session (data frames, matrices, tables, vectors, lists, time series, functions, models and more) to the 'StatDataViewer' desktop application <<https://statdataviewer.com/>>. Each object is converted into a plain data frame that the viewer's R data reader can display, or into a text document, written to a temporary file and opened in the running viewer. Objects can be sent with a keyboard shortcut, from the 'Addins' menu, or through View().

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URL <https://github.com/sashelper/sdv>,
<https://sashelper.r-universe.dev/sdv>

BugReports <https://github.com/sashelper/sdv/issues>

SystemRequirements StatDataViewer (macOS or Windows),
<<https://statdataviewer.com/>>

Encoding UTF-8

Depends R (>= 4.1)

Imports rstudioapi, stats, utils, methods

Suggests testthat (>= 3.0.0), withr, bit64, zoo, xts

Config/testthat/edition 3

Roxygen list(markdown = TRUE)

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Repository <https://sashelper.r-universe.dev>

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sdv_addin_prompt	Addin: type an object name or expression to open in StatDataViewer
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Description

Addin: type an object name or expression to open in StatDataViewer

Usage

sdv_addin_prompt(default = NULL, error = NULL)

Arguments

- default Text pre-filled in the prompt.
- error Optional error message shown above the prompt.

sdv_addin_view	Addin: open the selection or the object under the cursor
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Description

With a selection in the editor or console, the selected code is evaluated in the global environment and the result is sent to StatDataViewer. Without a selection, the object name under the cursor is used. If there is nothing usable, a prompt asks for a name or expression.

Usage

sdv_addin_view()

sdv_clean_df	<i>Clean a data frame for StatDataViewer</i>
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Description

Rebuilds `x` as a plain data frame whose columns only use types the viewer's R reader understands. Non-automatic row names become a leading `row_names` column.

Usage

```
sdv_clean_df(x, row_names = TRUE)
```

Arguments

<code>x</code>	A data frame.
<code>row_names</code>	Keep non-automatic row names as a column.

Value

A plain data.frame.

sdv_install_shortcut	<i>Assign a keyboard shortcut to a StatDataViewer addin</i>
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Description

Writes RStudio's keybindings/addins.json (backing up the previous file to addins.json.bak). Restart RStudio afterwards. The default `Cmd+Shift+V` (`Ctrl+Shift+V` on Windows/Linux) is not used by RStudio's built-in shortcuts.

Usage

```
sdv_install_shortcut(
  key = sdv_default_key(),
  binding = c("sdv_addin_view", "sdv_addin_prompt"),
  overwrite = FALSE
)
```

Arguments

<code>key</code>	Shortcut, e.g. <code>"Cmd+Shift+V"</code> or <code>"Ctrl+Alt+Shift+V"</code> .
<code>binding</code>	<code>"sdv_addin_view"</code> or <code>"sdv_addin_prompt"</code> .
<code>overwrite</code>	Take the key even if another addin already uses it.

Value

Path of the keybinding file, invisibly.

sdv_is_clean	<i>Check that a data frame is safe for StatDataViewer's R reader</i>
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Description

Check that a data frame is safe for StatDataViewer's R reader

Usage

```
sdv_is_clean(df)
```

Arguments

df A data frame.

Value

TRUE, or FALSE with a "problems" attribute describing why.

sdv_keybindings_path	<i>Path of RStudio's addin keybinding file</i>
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Description

Path of RStudio's addin keybinding file

Usage

```
sdv_keybindings_path()
```

Value

File path (may not exist yet).

sdv_open_file	<i>Open a file in StatDataViewer</i>
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Description

Open a file in StatDataViewer

Usage

```
sdv_open_file(path)
```

Arguments

path	File to open (.rds, .txt, .R, or any format the app reads).
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Value

TRUE invisibly; errors with a hint when the app can't be found.

sdv_prepare	<i>Convert an R object for display in StatDataViewer</i>
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Description

Generic used by `sdv_view()`. Methods may return a data frame (shown as a table), a character vector (shown as text) or NULL (nothing to show). The default method handles data frames, matrices, arrays, tables, time series, vectors, lists, environments, functions, models and any other object.

Usage

```
sdv_prepare(x, name = "object", ...)
```

Arguments

x	Object to convert.
name	Display name.
...	Unused.

sdv_remove_shortcut	<i>Remove a StatDataViewer addin shortcut</i>
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Description

Remove a StatDataViewer addin shortcut

Usage

```
sdv_remove_shortcut(binding = c("sdv_addin_view", "sdv_addin_prompt"))
```

Arguments

binding "sdv_addin_view" or "sdv_addin_prompt".

sdv_use_as_viewer	<i>Route View() and the Environment pane's grid icon to StatDataViewer</i>
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Description

When enabled, View(x) (and clicking the table icon next to an object in RStudio's Environment pane) opens the object in StatDataViewer. Objects that are not tabular (functions, lists, environments, ...) still open in RStudio unless types = "all".

Usage

```
sdv_use_as_viewer(enable = TRUE, types = c("tabular", "all"), quiet = FALSE)
```

Arguments

enable	TRUE to enable, FALSE to restore RStudio's viewer.
types	"tabular" (data frames, matrices, arrays, tables, time series, atomic vectors) or "all".
quiet	Suppress messages.

Details

The change lasts for the current R session. To enable it automatically, add the snippet printed by this function to ~/.Rprofile.

Value

Whether the override is active, invisibly.

sdv_view

Open an R object in StatDataViewer

Description

Converts `x` with `sdv_prepare()`, writes it to a temporary file and asks StatDataViewer to open it. Data frames, matrices, arrays, tables, time series, vectors and lists open as data tables; functions, models and other objects open as text.

Usage

```
sdv_view(x, name = NULL, open = TRUE)
```

Arguments

<code>x</code>	Any R object.
<code>name</code>	Name shown in StatDataViewer. Defaults to the expression passed as <code>x</code> .
<code>open</code>	If FALSE, only write the file.

Value

The path of the written file, invisibly.

Examples

```
## Not run:  
sdv_view(mtcars)  
sdv_view(split(iris, iris$Species), "iris_by_species")  
  
## End(Not run)
```

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