

# Package ‘datadigest’

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**Type** Package

**Title** Create an Interactive Data Summary

**Version** 1.0.2

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**Description** An R interface for Rho's 'web-codebook' 'JavaScript' charting library, which provides a simple interactive framework for exploring data. 'datadigest' includes two key functions (codebook() and explorer()) that deliver a concise summary of every variable in a data frame, along with interactive features such as real-time filters, grouping, and highlighting. Each function has an associated 'RStudio' addin/'Shiny' app for quick and convenient exploration of one or more data frames.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.0

**Depends** R (>= 3.3.0)

**Imports** htmlwidgets, shiny, miniUI, Hmisc, htmltools, haven, jsonlite, tibble, datasets

**URL** <https://github.com/RhoInc/datadigest>

**BugReports** <https://github.com/RhoInc/datadigest/issues>

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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datadigest-package	<i>Create an interactive codebook</i>
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### Description

The `datadigest` package provides a simple interactive framework for exploring data. The package serves as an R interface for Rho's web-codebook JavaScript library. This tool provides a concise summary of every variable in a data frame and includes interactive features such as real-time filters, grouping, and highlighting. The R interface allows the analyst to interactively explore datasets within the typical analysis workflow and working environment. `datadigest` has been built using the `htmlwidgets` framework.

### Source

Rho's web-codebook JavaScript library: <https://github.com/RhoInc/web-codebook>.

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codebook	<i>Create an interactive codebook</i>
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### Description

This function creates an interactive codebook from a user specified data frame using using R `htmlwidgets`. The codebook can be explored using the RStudio viewer or a web browser. The codebook can also be embedded in an R Markdown document or saved as a standalone HTML page.

### Usage

```
codebook(data, settings = NULL)
```

### Arguments

<code>data</code>	A data frame.
<code>settings</code>	Optional list of custom settings.

## Details

**settings** If provided, the list of custom settings will be converted to JSON using `jsonlite::toJSON`. Details on configuration of the settings object can be found at <https://github.com/RhoInc/web-codebook/wiki/Configuration>.

## See Also

explorer

## Examples

```
codebook(data = mtcars)
```

---

codebook-shiny

*Shiny bindings for codebook*

---

## Description

Output and render functions for using codebook within Shiny applications and interactive Rmd documents.

## Usage

```
codebookOutput(outputId, width = "100%", height = "400px")
```

```
renderCodebook(expr, env = parent.frame(), quoted = FALSE)
```

## Arguments

<code>outputId</code>	output variable to read from
<code>width, height</code>	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
<code>expr</code>	An expression that generates a codebook
<code>env</code>	The environment in which to evaluate <code>expr</code> .
<code>quoted</code>	Is <code>expr</code> a quoted expression (with <code>quote()</code> )? This is useful if you want to save an expression in a variable.

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`codebookApp`*Codebook Shiny App and RStudio Add-in*

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**Description**

The codebook shiny application produces an interactive codebook using data from your R environment or a file upload. Optionally select to view a static summary of the data using `Hmisc::describe()`. The resulting codebook (interactive or static) may be downloaded as an HTML file.

**Usage**

```
codebookApp()
```

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`explorer`*Create an interactive codebook explorer*

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**Description**

This function produces an interactive codebook explorer using R `htmlwidgets`. The interactive codebook explorer allows the user to explore multiple data frames within the RStudio viewer or a web browser. The explorer can also be embedded in an R Markdown document or saved as a standalone HTML page.

**Usage**

```
explorer(data = NULL, addEnv = TRUE, demo = FALSE)
```

**Arguments**

<code>data</code>	A list of (optionally named) data frames. Also accepts a character vector of data frame names (must be loaded in environment).
<code>addEnv</code>	Logical. Indicates whether to add all data frames in current environment to explorer. Defaults to <code>addEnv=TRUE</code> .
<code>demo</code>	Logical. Indicates whether to display demo data frames. If <code>TRUE</code> , <code>dataList</code> and <code>addEnv</code> settings will be ignored. Defaults to <code>demo=FALSE</code> .

**See Also**`codebook`

## Examples

```
### Generate explorer using all data loaded into R session (default).
explorer(data = NULL, addEnv = TRUE)

### Provide a list of (optionally named) data frames.
explorer(data = list(Cars = mtcars, Iris = iris))

### Alternatively, provide data frames currently loaded in R session as a character vector.
explorer(data = c("mtcars","iris"))

### Generate explorer using data from the datasets package.
explorer(demo = TRUE)
```

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explorer-shiny

*Shiny bindings for codebook-explorer*

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## Description

Output and render functions for using codebook-explorer within Shiny applications and interactive Rmd documents.

## Usage

```
explorerOutput(outputId, width = "100%", height = "400px")

renderExplorer(expr, env = parent.frame(), quoted = FALSE)
```

## Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a codebook-explorer
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

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`explorerApp`*Codebook Explorer Shiny App and RStudio Add-in*

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**Description**

The explorer shiny application generates an interactive codebook explorer using all datasets currently loaded in the user's R session. If no data are available, the app is populated using the data from the datasets package. The user can upload one or more sas7bdat or csv files by navigating to a directory and selecting individual file(s).

**Usage**`explorerApp()`

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