

Package ‘repr’

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Title Serializable Representations

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Description String and binary representations of objects for several formats /
mime types.

URL <https://github.com/IRkernel/repr/>

BugReports <https://github.com/IRkernel/repr/issues/>

Depends R (>= 3.0.1)

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base64enc

Suggests methods, highr, Cairo, stringr, testthat (>= 3.0.0), leaflet

Enhances data.table, tibble, htmlwidgets, vegalite, plotly, geojsonio

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'repr_datetime.r' 'utils.r' 'repr_list.r' 'repr_vector.r'
'repr_factor.r' 'repr_function.r'
'repr_help_files_with_topic.r' 'repr_htmlwidget.r'
'repr_matrix_df.r' 'repr_packageIQR.r' 'repr_plotly.r'
'repr_recordedplot.r' 'repr_spatial.r' 'repr_ts.r'
'repr_vega.r' 'zzz_onload.r'

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repr-package

The repr package

Description

String and binary representations of objects for several formats / mime types.

Details

The LaTeX repr of vectors needs `\usepackage[inline]{enumitem}`

The LaTeX repr of functions with the `repr.function.highlight` option set to `FALSE` needs `\usepackage{minted}`

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See Also

[repr](#), [repr-options](#), [repr-generics](#), [repr_text](#)

*2repr *Lists mapping mime types (mime2repr) or format names (format2repr) to repr functions*

Description

Lists mapping mime types (mime2repr) or format names (format2repr) to repr functions

Usage

```
mime2repr
```

```
format2repr
```

Format

Lists mapping mime/name to function

An object of class `list` of length 18.

Examples

```
names(mime2repr)
names(format2repr)
```

repr	<i>Dynamic representation</i>
------	-------------------------------

Description

Specify an object and a format to represent it in. Will [stop\(\)](#) if no such format is known.

Usage

```
repr(obj, format = "text", ...)
```

Arguments

obj	The object to create a representation for
format	The representation format. <code>repr_<format></code> is then called. (default: Call repr_text)
...	delegated to the specific <code>repr_<format></code> function

Value

A character or raw vector of that format or NULL if none is defined. Only the 'text' format is defined for everything (via [print\(\)](#))

See Also

[repr_text](#), [repr-generics](#)

repr-generics	<i>Representations for specific formats</i>
---------------	---

Description

Representations for specific formats

Usage

```
repr_html(obj, ...)

## Default S3 method:
repr_html(obj, ...)

repr_markdown(obj, ...)

## Default S3 method:
repr_markdown(obj, ...)
```

```
repr_latex(obj, ...)

## Default S3 method:
repr_latex(obj, ...)

repr_json(obj, ...)

## Default S3 method:
repr_json(obj, ...)

repr_javascript(obj, ...)

## Default S3 method:
repr_javascript(obj, ...)

repr_pdf(obj, ...)

## Default S3 method:
repr_pdf(obj, ...)

repr_png(obj, ...)

## Default S3 method:
repr_png(obj, ...)

repr_jpg(obj, ...)

## Default S3 method:
repr_jpg(obj, ...)

repr_svg(obj, ...)

## Default S3 method:
repr_svg(obj, ...)

repr_geojson(obj, ...)

## Default S3 method:
repr_geojson(obj, ...)

repr_vdom1(obj, ...)

## Default S3 method:
repr_vdom1(obj, ...)

repr_plotly1(obj, ...)

## Default S3 method:
```

```

repr_plotly1(obj, ...)

repr_vegalite2(obj, ...)

## Default S3 method:
repr_vegalite2(obj, ...)

repr_vegalite3(obj, ...)

## Default S3 method:
repr_vegalite3(obj, ...)

repr_vegalite4(obj, ...)

## Default S3 method:
repr_vegalite4(obj, ...)

repr_vega4(obj, ...)

## Default S3 method:
repr_vega4(obj, ...)

repr_vega5(obj, ...)

## Default S3 method:
repr_vega5(obj, ...)

```

Arguments

obj	The object to create a repr for
...	parameters of the specific repr_* functions

See Also

[repr_text](#) for the only repr that is always defined

```
repr-options
```

```
repr options
```

Description

These options are used to control the behavior of repr when not calling it directly. Use `options(repr.* = ...)` and `getOption('repr.*')` to set and get them, respectively.

Usage

```
repr_option_defaults
```

Format

An object of class `list` of length 15.

Details

Once this package is loaded, all options are set to defaults which weren't set beforehand.

Setting all options set to `NULL` are reset to defaults when reloading the package (or calling `repr::: .onload()`).

Options

`repr.plot.*` Those are for representations of `recordedplot` instances:

`repr.plot.width` Plotting area width in inches (default: 7)

`repr.plot.height` Plotting area height in inches (default: 7)

`repr.plot.pointsize` Text height in pt (default: 12)

`repr.plot.bg` Background color (default: white)

`repr.plot.antialias` Which kind of antialiasing to use for for lines and text? 'gray', 'sub-pixel' or 'none'? (default: gray)

`repr.plot.res` PPI for rasterization (default: 120)

`repr.plot.quality` Quality of JPEG format in % (default: 90)

`repr.plot.family` Vector font family. 'sans', 'serif', 'mono' or a specific one (default: sans)

`repr.vector.quote` Output quotation marks for character vectors? (default: TRUE)

`repr.vector.max.items` How many items to display at max. Will insert an item with a horizontal ellipsis to show elision. (default: 400)

`repr.matrix.max.rows` How many rows to display at max. Will insert a row with vertical ellipses to show elision. (default: 60)

`repr.matrix.max.cols` How many cols to display at max. Will insert a column with horizontal ellipses to show elision. (default: 20)

`repr.matrix.latex.colspec` How to layout LaTeX tables when representing matrices or data.frames. List of row.head, other col, and end strings. end mainly exists for when you want a vertical line there (default: 'r', 'l', and '')

`repr.function.highlight` Use the `highr` package to insert highlighting instructions into the code? Needs that package to be installed. (default: FALSE)

`repr.html.deduplicate` Use the [html_dependencies](#) manager to only include dependencies once? This can greatly reduce notebook size, but fails if e.g. iframes are used (default: FALSE)

```
repr_*.data.table
```

Representation of data.table objects

Description

Representation of `data.table` objects

Usage

```
## S3 method for class 'data.table'  
repr_html(obj, ...)  
  
## S3 method for class 'data.table'  
repr_text(obj, ...)  
  
## S3 method for class 'data.table'  
repr_latex(obj, ...)
```

Arguments

obj	The list to create a representation for
...	ignored

repr_*.factor	<i>Representations of factors</i>
---------------	-----------------------------------

Description

Representations of factors

Usage

```
## S3 method for class 'factor'  
repr_html(obj, ...)  
  
## S3 method for class 'factor'  
repr_markdown(obj, ...)  
  
## S3 method for class 'factor'  
repr_latex(obj, ...)
```

Arguments

obj	The factor to create a representation for
...	ignored

```
repr_*.function      Representations of functions
```

Description

Representations of functions

Usage

```
## S3 method for class '`function`'  
repr_html(obj, highlight = getOption("repr.function.highlight"), ...)  
  
## S3 method for class '`function`'  
repr_latex(obj, highlight = getOption("repr.function.highlight"), ...)  
  
## S3 method for class '`function`'  
repr_markdown(obj, fenced = TRUE, ...)
```

Arguments

obj	Function to create a representation for
highlight	Should code highlighting be performed
...	ignored
fenced	Should a fenced code block instead of an indented one be used?

```
repr_*.help_files_with_topic  
      Representations of help
```

Description

Representations of help

Usage

```
## S3 method for class 'help_files_with_topic'  
repr_text(obj, ...)  
  
## S3 method for class 'help_files_with_topic'  
repr_html(obj, ...)  
  
## S3 method for class 'help_files_with_topic'  
repr_latex(obj, ...)
```

Arguments

obj	Help topic to create a representation for
...	ignored

repr_*.htmlwidget	<i>HTML widget representations</i>
-------------------	------------------------------------

Description

Standalone HTML representation and dummy text representation.

Usage

```
html_dependencies

## S3 method for class 'htmlwidget'
repr_text(obj, ...)

## S3 method for class 'htmlwidget'
repr_html(obj, ...)

## S3 method for class 'shiny.tag'
repr_text(obj, ...)

## S3 method for class 'shiny.tag'
repr_html(obj, ...)

## S3 method for class 'shiny.tag.list'
repr_text(obj, ...)

## S3 method for class 'shiny.tag.list'
repr_html(obj, ...)
```

Arguments

obj	The htmlwidget, shiny.tag, or shiny.tag.list to create a representation for
...	ignored

Format

An object of class environment of length 4.

Details

html_dependencies is an [environment](#) containing the following functions. `getOption('repr.html.deduplicate')`

`get()` Get the list of added dependencies

`add(dep)` Marks a dependency as added. Call this e.g. after appending a script tag with the dependency.

`clear()` Clear the list as seen dependencies. Now everything will be added again when encountered.

`dir()` Returns the directory in which the dependencies reside.

repr_*.list

Representations of lists

Description

Representations of lists

Usage

```
## S3 method for class 'list'
repr_html(obj, ...)
```

```
## S3 method for class 'list'
repr_markdown(obj, ...)
```

```
## S3 method for class 'list'
repr_latex(obj, ...)
```

Arguments

obj	The list to create a representation for
...	ignored

repr_*.matrix/data.frame

Tabular data representations

Description

HTML, LaTeX, and Markdown representations of Matrix-like objects

Usage

```
## S3 method for class 'matrix'
repr_html(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
  cols = getOption("repr.matrix.max.cols")
)

## S3 method for class 'data.frame'
repr_html(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
  cols = getOption("repr.matrix.max.cols")
)

## S3 method for class 'matrix'
repr_latex(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
  cols = getOption("repr.matrix.max.cols"),
  colspec = getOption("repr.matrix.latex.colspec")
)

## S3 method for class 'data.frame'
repr_latex(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
  cols = getOption("repr.matrix.max.cols"),
  colspec = getOption("repr.matrix.latex.colspec")
)

## S3 method for class 'matrix'
repr_markdown(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
  cols = getOption("repr.matrix.max.cols")
)

## S3 method for class 'data.frame'
repr_markdown(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
```

```

    cols = getOption("repr.matrix.max.cols")
  )

## S3 method for class 'matrix'
repr_text(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
  cols = getOption("repr.matrix.max.cols")
)

## S3 method for class 'data.frame'
repr_text(
  obj,
  ...,
  rows = getOption("repr.matrix.max.rows"),
  cols = getOption("repr.matrix.max.cols")
)

```

Arguments

obj	The matrix or data.frame to create a representation for
...	ignored
rows	The maximum number of rows displayed. The default is given by the option <code>repr.matrix.max.rows</code>
cols	The maximum number of columns displayed. The default is given by the option <code>repr.matrix.max.cols</code>
colspec	The colspec for the LaTeX table. The default is given by the option <code>repr.matrix.latex.colspec</code>

See Also

[repr-options](#) for `repr.matrix.latex.colspec`

repr_*.packageIQR *packageIQR representations*

Description

Text representations of packageIQR objects like the list of available example data or vignettes

Usage

```

## S3 method for class 'packageIQR'
repr_text(obj, ...)

## S3 method for class 'packageIQR'
repr_html(obj, ...)

```

Arguments

obj The packageIQR obj to create a representation for
 ... ignored

Examples

```
repr_html(data(package = 'datasets'))
repr_text(vignette(package = 'highr'))
```

```
repr_*.recordedplot    Plot representations
```

Description

repr_text.recordedplot only returns a small info string containing the title (if any) while the others return a character vector (SVG) or a raw vector (the rest) containing the image data.

Usage

```
## S3 method for class 'recordedplot'
repr_text(obj, ...)

## S3 method for class 'recordedplot'
repr_png(
  obj,
  width = getOption("repr.plot.width"),
  height = getOption("repr.plot.height"),
  bg = getOption("repr.plot.bg"),
  pointsize = getOption("repr.plot.pointsize"),
  antialias = getOption("repr.plot.antialias"),
  res = getOption("repr.plot.res"),
  ...
)

## S3 method for class 'recordedplot'
repr_jpg(
  obj,
  width = getOption("repr.plot.width"),
  height = getOption("repr.plot.height"),
  bg = getOption("repr.plot.bg"),
  pointsize = getOption("repr.plot.pointsize"),
  antialias = getOption("repr.plot.antialias"),
  res = getOption("repr.plot.res"),
  quality = getOption("repr.plot.quality"),
  ...
)
```

```

)

## S3 method for class 'recordedplot'
repr_svg(
  obj,
  width = getOption("repr.plot.width"),
  height = getOption("repr.plot.height"),
  bg = getOption("repr.plot.bg"),
  pointsize = getOption("repr.plot.pointsize"),
  antialias = getOption("repr.plot.antialias"),
  family = getOption("repr.plot.family"),
  ...
)

## S3 method for class 'recordedplot'
repr_pdf(
  obj,
  width = getOption("repr.plot.width"),
  height = getOption("repr.plot.height"),
  bg = getOption("repr.plot.bg"),
  pointsize = getOption("repr.plot.pointsize"),
  antialias = getOption("repr.plot.antialias"),
  family = getOption("repr.plot.family"),
  ...
)

```

Arguments

obj	The plot to create a representation for
...	ignored
width	Plot area width in inches (default: 7)
height	Plot area height in inches (default: 7)
bg	Background color (default: white)
pointsize	Text height in pt (default: 12)
antialias	Which kind of antialiasing to use for for lines and text? 'gray', 'subpixel' or 'none'? (default: gray)
res	For PNG and JPEG, specifies the PPI for rasterization (default: 120)
quality	For JPEG, determines the compression quality in % (default: 90)
family	Font family for SVG and PDF. 'sans', 'serif', 'mono' or a specific one (default: sans)

Details

All parameters can also be specified using the eponymous `repr.plot.*repr-options`.

Examples

```

dev.new()
dev.control(displaylist = 'enable')
plot(sqrt, main = 'Square root')
p <- recordPlot()
dev.off()

repr_text(p)

```

repr_*.ts

Time series representations

Description

HTML, LaTeX, and Markdown representations of `ts` objects.

Usage

```

## S3 method for class 'ts'
repr_html(obj, ...)

## S3 method for class 'ts'
repr_latex(obj, ..., colspec = getOption("repr.matrix.latex.colspec"))

## S3 method for class 'ts'
repr_markdown(obj, ...)

## S3 method for class 'ts'
repr_text(obj, ...)

```

Arguments

<code>obj</code>	The <code>ts</code> object to create a representation for
<code>...</code>	ignored
<code>colspec</code>	The colspec for the LaTeX table. The default is given by the option <code>repr.matrix.latex.colspec</code>

See Also

[repr-options](#) for `repr.matrix.latex.colspec`

repr_*.vector	<i>Representations of vectors</i>
---------------	-----------------------------------

Description

Representations of vectors

Usage

```
## S3 method for class 'logical'
repr_html(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'integer'
repr_html(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'complex'
repr_html(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'numeric'
repr_html(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'character'
repr_html(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'Date'
repr_html(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'logical'
repr_markdown(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'integer'
repr_markdown(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'complex'
repr_markdown(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'numeric'
repr_markdown(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'character'
repr_markdown(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'Date'
repr_markdown(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'logical'
repr_latex(obj, ..., items = getOption("repr.vector.max.items"))
```

```

## S3 method for class 'integer'
repr_latex(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'complex'
repr_latex(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'numeric'
repr_latex(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'character'
repr_latex(obj, ..., items = getOption("repr.vector.max.items"))

## S3 method for class 'Date'
repr_latex(obj, ..., items = getOption("repr.vector.max.items"))

```

Arguments

obj	The vector to create a representation for
...	ignored
items	The maximum number of items displayed. The default is given by the option <code>repr.vector.max.items</code>

repr_geojson.*	<i>Representations of spatial objects: See geojson_list for supported classes.</i>
----------------	--

Description

Representations of spatial objects: See [geojson_list](#) for supported classes.

Usage

```

## S3 method for class 'geo_list'
repr_geojson(obj, ...)

## S3 method for class 'SpatialCollections'
repr_geojson(obj, ...)

## S3 method for class 'SpatialPolygons'
repr_geojson(obj, ...)

## S3 method for class 'SpatialPolygons'
repr_geojson(obj, ...)

## S3 method for class 'SpatialPolygonsDataFrame'
repr_geojson(obj, ...)

```

```
## S3 method for class 'SpatialPoints'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialPointsDataFrame'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialLines'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialLinesDataFrame'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialGrid'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialGridDataFrame'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialPixels'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialPixelsDataFrame'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialRings'  
repr_geojson(obj, ...)  
  
## S3 method for class 'SpatialRingsDataFrame'  
repr_geojson(obj, ...)  
  
## S3 method for class 'sf'  
repr_geojson(obj, ...)  
  
## S3 method for class 'sfg'  
repr_geojson(obj, ...)  
  
## S3 method for class 'sfc'  
repr_geojson(obj, ...)
```

Arguments

<code>obj</code>	The spatial object to create a representation for
<code>...</code>	ignored

repr_plotly1.*	<i>Representation as Plotly JSON.</i>
----------------	---

Description

Representation as [Plotly JSON](#).

Usage

```
## S3 method for class 'plotly'  
repr_plotly1(obj, ...)
```

```
## S3 method for class 'ggplot'  
repr_plotly1(obj, ...)
```

Arguments

obj	The plot_ly plot or ggplot to create a representation for
...	ignored

repr_text	<i>Text representation</i>
-----------	----------------------------

Description

The only representation defined per default for everthing (via [print\(\)](#))

Usage

```
repr_text(obj, ...)
```

```
## Default S3 method:  
repr_text(obj, ...)
```

Arguments

obj	The object to print and then return the output
...	ignored

See Also

[repr-generics](#) for other generics

repr_vega*	<i>Representation as vegalitev2 or vega4 JSON.</i>
------------	--

Description

Representation as [vegalitev2](#) or vega4 JSON.

Usage

```
## S3 method for class 'vegalite'  
repr_vegalite2(obj, ...)
```

Arguments

obj	The vegalite plot to create a representation for
...	ignored

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