

# Package ‘repr’

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**Title** Serializable Representations

**Version** 1.1.7

**Maintainer** Philipp Angerer <phil.angerer@gmail.com>

**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)

**Imports** utils, grDevices, htmltools, jsonlite, pillar (>= 1.4.0), base64enc

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

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

**Config/testthat/edition** 3

**License** GPL (>= 3)

**Encoding** UTF-8

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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}`

### Author(s)

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### See Also

[repr](#), [repr-options](#), [repr-generics](#), [repr\\_text](#)

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\*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
```

*Dynamic representation*

---

**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_&lt;format&gt;</code> is then called. (default: Call <a href="#">repr_text</a> )
...	delegated to the specific <code>repr_&lt;format&gt;</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
```

*Representations for specific formats*

---

**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:::load()`).

**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 <a href="#">geojson_list</a> 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 <a href="#">Plotly JSON</a>.</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 <a href="#">plot_ly</a> plot or <a href="#">ggplot</a> 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 <a href="#">print</a> and then return the output
...	ignored

**See Also**

[repr-generics](#) for other generics

---

repr_vega*	<i>Representation as <a href="#">vegalitev2</a> or vega4 JSON.</i>
------------	--

---

**Description**

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

**Usage**

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

**Arguments**

obj	The <a href="#">vegalite</a> plot to create a representation for
...	ignored

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