

# Package ‘repr’

July 23, 2025

**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

**Collate** 'generics.r' 'options.r' 'package.r' 'repr\_datatable.r'  
'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'

**RoxygenNote** 7.3.1

**NeedsCompilation** no

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**Repository** CRAN  
**Date/Publication** 2024-03-22 09:30:02 UTC

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|              |                         |
|--------------|-------------------------|
| repr-package | <i>The repr package</i> |
|--------------|-------------------------|

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**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 | <i>Lists mapping mime types (mime2repr) or format names (format2repr) to repr functions</i> |
|--------|---------------------------------------------------------------------------------------------|

---

## 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_&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 | <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

|                  |                                                          |
|------------------|----------------------------------------------------------|
| <code>obj</code> | The object to create a repr for                          |
| <code>...</code> | parameters of the specific <code>repr_*</code> functions |

### See Also

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

---

|              |                     |
|--------------|---------------------|
| repr-options | <i>repr options</i> |
|--------------|---------------------|

---

### 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 lines and text? 'gray', 'subpixel' 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)

---

|                                |                                             |
|--------------------------------|---------------------------------------------|
| <code>repr_*.data.table</code> | <i>Representation of data.table objects</i> |
|--------------------------------|---------------------------------------------|

---

## 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 | <i>Representations of functions</i> |
|-----------------|-------------------------------------|

---

**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 | <i>Representations of help</i> |
|------------------------------|--------------------------------|

---

**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 repr.matrix.max.rows    |
| cols    | The maximum number of columns displayed. The default is given by the option repr.matrix.max.cols |
| colspec | The colspec for the LaTeX table. The default is given by the option repr.matrix.latex.colspec    |

### See Also

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

---

|                   |                                   |
|-------------------|-----------------------------------|
| repr_*.packageIQR | <i>packageIQR representations</i> |
|-------------------|-----------------------------------|

---

### 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 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**

|         |                                                                                                            |
|---------|------------------------------------------------------------------------------------------------------------|
| obj     | The <a href="#">ts</a> object to create a representation for                                               |
| ...     | ignored                                                                                                    |
| 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_*.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

|     |                                                   |
|-----|---------------------------------------------------|
| obj | The spatial object to create a representation for |
| ... | ignored                                           |

---

|                |                                        |
|----------------|----------------------------------------|
| repr_plotly1.* | Representation as <i>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 <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="#">vegalite</a>v2 or vega4 JSON.</i> |
|------------|--------------------------------------------------------------------|

---

**Description**

Representation as [vegalite](#)v2 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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