

# Package ‘Rcssplot’

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**Title** Styling of Graphics using Cascading Style Sheets

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**Description** Provides a means to style plots through cascading style sheets.  
This separates the aesthetics from the data crunching in plots and charts.

**Depends** R (>= 3.1.2)

**Imports** graphics, stats, utils

**Suggests** knitr, rmarkdown, testthat

**License** GPL-2

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**VignetteBuilder** knitr

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print.Rcss	<i>Show basic information about an Rcss object</i>
------------	--

---

### Description

Display selectors encoded in an Rcss object. For more detailed information about the object, see function `printRcss()`

### Usage

```
## S3 method for class 'Rcss'
print(x, ...)
```

### Arguments

x	style sheet object
...	Further parameters are ignored

---

printRcss	<i>Display properties encoded in an Rcss object</i>
-----------	---

---

**Description**

Display properties encoded in an Rcss object, including any subclasses.

**Usage**

```
printRcss(Rcss, selector = NULL, verbose = FALSE)
```

**Arguments**

Rcss	style sheet object
selector	character string with name of selector to print
verbose	logical. If TRUE, function prints all information about the selector, including subclasses. If FALSE, function omits detailed information about subclasses.

---

Rcss	<i>Create an Rcss style object</i>
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---

**Description**

Creates a style sheet object using definition specified in an Rcss file. When a file is not specified, creates a base object object without any styling.

**Usage**

```
Rcss(file = NULL)
```

**Arguments**

file	filename containing Rcss definitions. If set to NULL, function returns a basic Rcss object. If multiple files, function reads each one and produces a joint style.
------	--

**Details**

See also related functions `RcssGetDefaultStyle()` and `RcssOverload()`.

---

Rcssabline *Add a style straight line to a plot*

---

### Description

Add a style straight line to a plot

### Usage

```
Rcssabline(a = NULL, b = NULL, h = NULL, v = NULL, reg = NULL,
           coef = NULL, Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

a, b	coefficient (intercept and slope) for line
h, v	horizontal, vertical positions for line
reg	an object with a coef method
coef	vector with intercept and slope for line
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle().
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of abline()

---

Rcssarrows *Add styled arrows to a plot*

---

### Description

Rcssarrows is a wrapper for R's arrows() function. See R's documentation for arrows() for further details.

### Usage

```
Rcssarrows(x0, y0, x1 = x0, y1 = y0, Rcss = "default", Rcssclass = NULL,
           ...)
```

### Arguments

x0, y0	coordinates of *from* endpoint
x1, y1	coordinates of *to* endpoint
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of arrows()

---

Rcssaxis *Add a styled axis to a plot*

---

### Description

Rcssaxis is a wrapper for R's axis() function. See R's documentation for axis() for further details.

### Usage

```
Rcssaxis(side, Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

side	integer specifying what side of the plot to draw the axis. The codes are 1: bottom, 2: left, 3: top, 4: top. vertices
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of axis()

---

Rcssbarplot *Draw a styled barplot*

---

### Description

Rcssbarplot is a wrapper for R's barplot() function. See R's documentation for barplot() for further details.

### Usage

```
Rcssbarplot(height, Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

height	numeric vector giving bar lengths
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of barplot()

---

Rcssbox	<i>Add a styled box around a plot</i>
---------	---------------------------------------

---

**Description**

Rcssbox is a wrapper for R's `box()` function. See R's documentation for `box()` for further details.

**Usage**

```
Rcssbox(which = "plot", Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

<code>which</code>	character specifying where to draw a box; see documentation of <code>box()</code>
<code>Rcss</code>	style sheet object. Leave "default" to use a style defined via <code>RcssSetDefaultStyle()</code>
<code>Rcssclass</code>	sub class of style sheet
<code>...</code>	Further parameters, see documentation of <code>box()</code>

---

Rcssboxplot	<i>Draw a styled boxplot</i>
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---

**Description**

Rcssboxplot is a wrapper for R's `boxplot()` function. See R's documentation for `boxplot()` for further details.

**Usage**

```
Rcssboxplot(x, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

<code>x</code>	data for boxplot; either single numeric vector or a list of numeric vectors; see documentation of <code>boxplot()</code>
<code>Rcss</code>	style sheet object. Leave "default" to use a style defined via <code>RcssSetDefaultStyle()</code>
<code>Rcssclass</code>	sub class of style sheet
<code>...</code>	Further parameters, see documentation of <code>boxplot()</code>

---

RcssChange	<i>Modify an Rcss style sheet object</i>
------------	--

---

**Description**

Creates a new Rcss style sheet object from the input, modifying one or more properties.

**Usage**

```
RcssChange(selector, propertylist = NULL, property = NULL, value = NULL,
           Rcssclass = NULL, Rcss = "default")
```

**Arguments**

selector	name of one selector ("text", "plot", "axis", etc.)
propertylist	list with property/value pairs to update
property	name of a single property. This is only used when propertylist is set to NULL
value	new values associated with property above. This is only used propertylist is set to NULL
Rcssclass	subclass of style sheet. Leave NULL to change base property. Provide one character value to edit one subclass. Provide a vector to edit a subclass of a ...
Rcss	style sheet object

**Value**

always returns an Rcss object. Note: when changing the default style, this will return a new style without actually affecting the default style. To change how the default works in practice, assign this return value to RcssDefaultStyle

---

RcssChangePropertyValue	<i>Modify an Rcss style sheet object</i>
-------------------------	--

---

**Description**

Creates a new Rcss style sheet object from the input, modifying one or more properties.

**Usage**

```
RcssChangePropertyValue(Rcss, selector, Rcssclass = NULL,
                       propertylist = NULL, property = NULL, value = NULL)
```

**Arguments**

Rcss	style sheet object
selector	name of one selector ("text", "plot", "axis", etc.)
Rcssclass	subclass of style sheet. Leave NULL to change base property. Provide one character value to edit one subclass. Provide a vector to edit a subclass of a ...
propertylist	list with property/value pairs to update
property	name of a single property. This is only used when propertylist is set to NULL
value	new values associated with property above. This is only used propertylist is set to NULL

**Details**

Equivalent to RcssChange: use RcssChange instead

---

RcssCompulsoryClass     *Vector holding set a compulsory Rcssclass*

---

**Description**

These style class (or classes) are applied in all functions of the Rcss family.

**Usage**

```
RcssCompulsoryClass
```

**Format**

An object of class NULL of length 0.

---

Rcsscontour     *Draw a styled contour*

---

**Description**

Rcsscontour is a wrapper for R's contour() function. See R's documentation for contour() for further details.

**Usage**

```
Rcsscontour(x = seq(0, 1, length.out = nrow(z)), y = seq(0, 1, length.out =
ncol(z)), z, Rcss = "default", Rcssclass = NULL, ...)
```



**Arguments**

x	numeric vector; locations of grid lines
y	numeric vector; locations of grid lines
z	matrix of values
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of contour()

---

RcssDefaultStyle	<i>Default Rcssplot style sheet</i>
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---

**Description**

This style sheet will be applied in all functions of the Rcss family.

**Usage**

```
RcssDefaultStyle
```

**Format**

An object of class NULL of length 0.

---

RcssGetCompulsoryClass	<i>Get current state of compulsory Rcssclass</i>
------------------------	--

---

**Description**

Fetches the value of the RcssCompulsoryClass object defined in parent environments.

**Usage**

```
RcssGetCompulsoryClass(Rcssclass = NULL)
```

**Arguments**

Rcssclass	character vector, set of additional compulsory classes. When NULL, function returns the current set of compulsory classes defined in parent environments. When non-NULL, functions returns the concatenation of the current set and new set.
-----------	--

---

RcssGetDefaultStyle    *Get default Rcssplot style object*

---

### Description

Fetches the value of the RcssDefaultStyle object defined in parent environments.

### Usage

```
RcssGetDefaultStyle(Rcss = "default")
```

### Arguments

Rcss	Rcss object, replacement default style object. When set to "default", the function returns a copy of the default object defined in parent environment. When set to Rcss object, the function ignores the default and returns the set object back.
------	---

---

RcssGetPropertyValue    *Extracts a value for an Rcss property*

---

### Description

Extracts a value for a property from an Rcss style sheet object. Returns a list with two items. "Defined" is a boolean that indicates the property is defined in the style sheet. "Value" gives the actual value of the property.

### Usage

```
RcssGetPropertyValue(Rcss, selector, property, Rcssclass = NULL)
```

### Arguments

Rcss	style sheet object
selector	name of selector of interest (e.g. "plot", "axis", "text", etc.)
property	name of property of interest (e.g. "col", "pch", etc.)
Rcssclass	subclass of style sheet

### Details

Equivalent to RcssProperty; use RcssProperty instead.

---

RcssGetPropertyValueOrDefault

*Extracts a value for an Rcss property*


---

### Description

If the requested property is defined within an Rcss object, this function will return the associated value. If the property is not defined, the function returns a default value that can be passed into the function and is set NULL otherwise. See also RcssGetPropertyValue().

### Usage

```
RcssGetPropertyValueOrDefault(Rcss, selector, property, default = NULL,
                             Rcssclass = NULL)
```

### Arguments

Rcss	style sheet object
selector	name of selector of interest (e.g. "plot", "axis", "text", etc.)
property	name of property of interest (e.g. "col", "pch", etc.)
default	value to return if the desired property is not defined in Rcss
Rcssclass	subclass of style sheet

### Details

Equivalent to RcssValue(); use RcssValue() instead

---

Rcssgrid *##' Draw a styled grid*


---

### Description

Rcssgrid is a wrapper for R's [grid\(\)](#) function. See R's documentation for [grid\(\)](#) for further details.

### Usage

```
Rcssgrid(Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of grid()

---

Rcsshist                      *##' Draw a styled histogram*

---

### Description

Rcsshist is a wrapper for R's hist() function. See R's documentation for hist() for further details.

### Usage

```
Rcsshist(x, Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

x	numeric vector
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefault-Style()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of hist()

---

Rcssjpeg                      *Create a styled jpg figure*

---

### Description

Rcssjpeg is a wrapper for R's jpeg() function. See R's documentation for jpeg() for further details

### Usage

```
Rcssjpeg(file, Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

file	character string with file name
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefault-Style()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of jpeg()

---

Rcsslegend	<i>Add a styled legend to a plot</i>
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---

**Description**

Rcsslegend is a wrapper for R's legend() function. See R's documentation for legend() for further details.

**Usage**

```
Rcsslegend(x, y = NULL, legend, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

x, y	position of the legend
legend	character vector with labels (text appears in the legend)
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of legend()

---

Rcsslines	<i>Add styled line segments to a plot</i>
-----------	---

---

**Description**

Rcsslines is a wrapper for R's lines() function. See R's documentation for lines() for further details.

**Usage**

```
Rcsslines(x, y = NULL, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

x, y	coordinates for start and end points for lines
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of lines()

---

Rcssmatplot	<i>Add styled line segments to a plot</i>
-------------	---

---

**Description**

Rcssmatplot is a wrapper for R's `matplot()` function. See R's documentation for `matplot()` for further details.

**Usage**

```
Rcssmatplot(x, y, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

<code>x, y</code>	vectors or matrices of data for plotting. The number of rows should match. If one of them are missing, the other is taken as y and an x vector of 1:n is used. Missing values (NAs) are allowed.
<code>Rcss</code>	style sheet object. Leave "default" to use a style defined via <code>RcssSetDefaultStyle()</code>
<code>Rcssclass</code>	sub class of style sheet
<code>...</code>	Further parameters, see documentation of <code>lines()</code>

---

Rcssmtext	<i>Write styled text into a plot margin</i>
-----------	---

---

**Description**

Rcssmtext is a wrapper for R's `mtext()` function. See R's documentation for `mtext()` for further details.

**Usage**

```
Rcssmtext(text, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

<code>text</code>	characters to print on the plot
<code>Rcss</code>	style sheet object. Leave "default" to use a style defined via <code>RcssSetDefaultStyle()</code>
<code>Rcssclass</code>	sub class of style sheet
<code>...</code>	Further parameters, see documentation of <code>mtext()</code>

---

RcssOverload	<i>Overloads base graphics functions by their Rcssplot wrappers</i>
--------------	---

---

### Description

Rcssplot graphics functions have 'Rcss' prefixes, e.g Rcsstext(). This function can be invoked to overload base-graphics functions by their Rcss wrappers. i.e. After executing this function, you can execute e.g. text() and automatically use the Rcss capabilities.

### Usage

```
RcssOverload()
```

### Details

Warning: this function creates masking objects in your current environment for many base-graphics functions. See documentation for details.

---

Rcsspar	<i>Set styled parameters for base graphics</i>
---------	--

---

### Description

Rcsspar is a wrapper for R's par() function. See R's documentation for par() for further details.

### Usage

```
Rcsspar(Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of lines()

---

Rcsspdf	<i>Create a styled pdf figure</i>
---------	-----------------------------------

---

**Description**

Rcsspdf is a wrapper for R's pdf() function. See R's documentation for pdf() for further details

**Usage**

```
Rcsspdf(file, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

file	character string with file name
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of pdf()

---

Rcssplot	<i>Create a styled plot</i>
----------	-----------------------------

---

**Description**

Rcssplot is a wrapper for R's plot() function. See R's documentation for plot() for further details.

**Usage**

```
Rcssplot(x, y, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

x, y	coordinates for points on the plot
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of plot()



---

Rcsspng *Create a styled png figure*

---

**Description**

Rcsspng is a wrapper for R's `png()` function. See R's documentation for `png()` for further details

**Usage**

```
Rcsspng(file, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

<code>file</code>	character string with file name
<code>Rcss</code>	style sheet object. Leave "default" to use a style defined via <code>RcssSetDefaultStyle()</code>
<code>Rcssclass</code>	sub class of style sheet
<code>...</code>	Further parameters, see documentation of <code>png()</code>

---

Rcsspoints *Add styled points to a plot*

---

**Description**

Rcsspoints is a wrapper for R's `points()` function. See R's documentation for `points()` for further details.

**Usage**

```
Rcsspoints(x, y = NULL, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

<code>x, y</code>	coordinates for points on the plot
<code>Rcss</code>	style sheet object. Leave "default" to use a style defined via <code>RcssSetDefaultStyle()</code>
<code>Rcssclass</code>	sub class of style sheet
<code>...</code>	Further parameters, see documentation of <code>points()</code>

---

Rcsspolygon	<i>Draw a styled polygon on a plot</i>
-------------	--

---

### Description

Rcsspolygon is a wrapper for R's polygon() function. See R's documentation for polygon() for further details.

### Usage

```
Rcsspolygon(x, y = NULL, Rcss = "default", Rcssclass = NULL, ...)
```

### Arguments

x, y	coordinates for polygon vertices
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of polygon()

---

RcssProperty	<i>Extracts information about property and its value</i>
--------------	--

---

### Description

See also RcssGetPropertyValue.

### Usage

```
RcssProperty(selector, property, Rcssclass = NULL, Rcss = "default")
```

### Arguments

selector	character, name of selector, e.g. 'points'
property	character, name of property, e.g. 'col'
Rcssclass	character or vector, subclass in Rcss
Rcss	Rcss object

---

Rcssrect	<i>Draw styled rectangles on a plot</i>
----------	---

---

**Description**

Rcssrect is a wrapper for R's rect() function. See R's documentation for rect() for further details.

**Usage**

```
Rcssrect(xleft, ybottom, xright, ytop, Rcss = "default", Rcssclass = NULL,
  ...)
```

**Arguments**

xleft, ybottom, xright, ytop	vector of coordinates for rectangles' vertices
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of rect()

---

Rcssstripchart	<i>Draw styled strip chart</i>
----------------	--------------------------------

---

**Description**

Rcssstripchart is a wrapper for R's stripchart() function. See R's documentation for stripchart() for further details.

**Usage**

```
Rcssstripchart(x, Rcss = "default", Rcssclass = NULL, ...)
```

**Arguments**

x	list of numeric vectors
Rcss	style sheet object. Leave "default" to use a style defined via RcssSetDefaultStyle()
Rcssclass	sub class of style sheet
...	Further parameters, see documentation of stripchart()

---

Rcsstext	<i>Add styled text to a plot</i>
----------	----------------------------------

---

**Description**

Rcsstext is a wrapper for R's text() function. See R's documentation for text() for further details.

**Usage**

```
Rcsstext(x, y = NULL, labels = seq_along(x), Rcscs = "default",
         Rcscsclass = NULL, ...)
```

**Arguments**

x, y	coordinates where to write labels
labels	characters to print on the plot
Rcscs	style sheet object. Leave "default" to use a style defined via RcscsSetDefaultStyle()
Rcscsclass	sub class of style sheet
...	Further parameters, see documentation of text()

---

Rcsstitle	<i>Add styled annotation to a plot</i>
-----------	--

---

**Description**

Rcsstitle is a wrapper for R's title() function. See R's documentation for title() for further details.

**Usage**

```
Rcsstitle(main = NULL, sub = NULL, xlab = NULL, ylab = NULL,
          Rcscs = "default", Rcscsclass = NULL, ...)
```

**Arguments**

main	plot title
sub	plot sub title
xlab, ylab	labels on axes
Rcscs	style sheet object. Leave "default" to use a style defined via RcscsSetDefaultStyle()
Rcscsclass	sub class of style sheet
...	Further parameters, see documentation of title()

---

RcssValue	<i>Extracts a value from an Rcss object</i>
-----------	---

---

**Description**

If the selector and property are defined in the Rcss object, this function will return the value stored in the Rcss object. Otherwise, the function will return a default value. See also related functions `RcssGetPropertyValueOrDefault`, which is the same, except that `RcssValue` is shorter to write and takes the Rcss object as its last argument.

**Usage**

```
RcssValue(selector, property, default = NULL, Rcssclass = NULL,  
          Rcss = "default")
```

**Arguments**

selector	character, name of selector, e.g. 'points'
property	character, name of property to get, e.g. 'col'
default	value to return if selector/property are not defined
Rcssclass	character or vector, subclass in Rcss
Rcss	Rcss object

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