

# Package ‘RSSthemes’

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**Title** RSS Palettes and Themes

**Version** 1.0.0

**Description** Defines colour palettes and themes for Royal Statistical Society (RSS) publications, including Significance magazine. Palettes and themes are supported in both base R and 'ggplot2' graphics, and are intended to be used by authors submitting to RSS publications.

**Encoding** UTF-8

**RoxygenNote** 7.2.3

**Depends** R (>= 3.6)

**Imports** ggplot2, graphics, grDevices, purrr, showtext, sysfonts

**Suggests** covr, knitr, markdown, rmarkdown, testthat (>= 3.0.0)

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**URL** <https://github.com/nrennie/RSSthemes>

**BugReports** <https://github.com/nrennie/RSSthemes/issues>

**NeedsCompilation** no

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**Repository** CRAN

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print.palette	<i>Function for printing palette</i>
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## Description

Function for printing palette

## Usage

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

## Arguments

x	the object to be printed.
...	further arguments to be passed to or from other methods. They are ignored in this function.

## Value

A plot of the specified colour palette.

## Examples

```
print(RSScols("signif_qual"))
```

---

RSScols	<i>Generates the colour palettes</i>
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---

**Description**

Generates the colour palettes

**Usage**

```
RSScols(palette, n, type = "discrete", direction = 1)
```

**Arguments**

palette	Name of Palette. Run names(RSSPalettes) to view options.
n	Number of desired colors. If number of requested colors is beyond the scope of the palette, colors are automatically interpolated. If n is not provided, the length of the palette is used.
type	Either "continuous" or "discrete". Use continuous if you want to automatically interpolate between colors. Default "discrete"
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed

**Value**

A character vector of hex colour codes.

**Examples**

```
RSScols("signif_seq")
```

---

RSSPalettes	<i>Complete list of palettes.</i>
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**Description**

Use names(RSSPalettes) to return all palette names.

**Usage**

```
RSSPalettes
```

**Format**

An object of class list of length 3.

---

scale\_color\_rss\_c      *Plotting with RSS palettes for colour ggplot2*

---

### Description

Plotting with RSS palettes for colour ggplot2

### Usage

```
scale_color_rss_c(palette, direction = 1, ...)
```

### Arguments

palette	name of palette. Run names(RSSPalettes) to view options.
direction	Sets order of colors. Default palette_choice is 1. If direction is -1, palette_choice color order is reversed
...	Other arguments passed on to <a href="#">scale_color_gradientn</a>

### Value

A ggproto object defining a continuous colour scale for use with ggplot2.

### Examples

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +
  geom_point() +
  scale_color_rss_c(palette = "signif_seq")
```

---

scale\_color\_rss\_d      *Plotting with RSS palettes for colour ggplot2*

---

### Description

Plotting with RSS palettes for colour ggplot2

### Usage

```
scale_color_rss_d(palette, direction = 1, ...)
```

### Arguments

palette	Name of Palette. Run palettes(RSSPalettes) to view options.
direction	Sets order of colors. Default direction is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = factor(cyl))) +
  geom_point() +
  scale_color_rss_d(palette = "signif_qual")
```

---

scale\_colour\_rss\_c      *Plotting with RSS palettes for colour ggplot2*

---

**Description**

Plotting with RSS palettes for colour ggplot2

**Usage**

```
scale_colour_rss_c(palette, direction = 1, ...)
```

**Arguments**

palette	name of palette. Run names(RSSPalettes) to view options.
direction	Sets order of colors. Default palette_choice is 1. If direction is -1, palette_choice color order is reversed
...	Other arguments passed on to <a href="#">scale_color_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +
  geom_point() +
  scale_colour_rss_c(palette = "signif_seq")
```

---

scale\_colour\_rss\_d      *Plotting with RSS palettes for colour ggplot2*

---

### Description

Plotting with RSS palettes for colour ggplot2

### Usage

```
scale_colour_rss_d(palette, direction = 1, ...)
```

### Arguments

palette	Name of Palette. Run names(RSSPalettes) to view options.
direction	Sets order of colors. Default direction is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

### Value

A ggproto object defining a discrete colour scale for use with ggplot2.

### Examples

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = factor(cyl))) +
  geom_point() +
  scale_colour_rss_d(palette = "signif_qual")
```

---

scale\_fill\_rss\_c      *Plotting with RSS palettes for fill with ggplot2*

---

### Description

Plotting with RSS palettes for fill with ggplot2

### Usage

```
scale_fill_rss_c(palette, direction = 1, ...)
```

### Arguments

palette	name of palette. Run names(RSSPalettes) to view options.
direction	Sets order of colors. Default palette_choice is 1. If direction is -1, palette_choice color order is reversed
...	Other arguments passed on to <a href="#">scale_fill_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = cyl, y = disp, fill = cyl)) +
  geom_col() +
  scale_fill_rss_c(palette = "signif_seq")
```

---

scale\_fill\_rss\_d      *Plotting with RSS palettes for fill colour ggplot2*

---

**Description**

Plotting with RSS palettes for fill colour ggplot2

**Usage**

```
scale_fill_rss_d(palette, direction = 1, ...)
```

**Arguments**

palette	name of palette. Run names(RSSPalettes) to view options.
direction	Sets order of colors. Default direction is 1. If direction is -1, palette_choice color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete fill scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = cyl, y = disp, fill = factor(cyl))) +
  geom_col() +
  scale_fill_rss_d(palette = "signif_qual")
```

---

set_rss_palette	<i>Set RSS base R plotting palette</i>
-----------------	--

---

**Description**

Set RSS base R plotting palette

**Usage**

```
set_rss_palette(palette)
```

**Arguments**

palette            Name of palette. See names(RSSthemes::RSSPalettes).

**Value**

Returns a character vector giving the colors from the palette which was in effect. This is invisible unless the argument is omitted.

**Examples**

```
set_rss_palette("signif_qual")
```

---

set_signif_par	<i>Set Significance base R graphical parameters</i>
----------------	---

---

**Description**

Set Significance base R graphical parameters

**Usage**

```
set_signif_par(  
  family = "Source Sans Pro",  
  adj = 0,  
  mar = c(5, 3, 3, 2.5),  
  bty = "n",  
  ...  
)
```



**Arguments**

family	Font used for all text elements. Default "Source Sans Pro".
adj	Alignment of text for title. Default 0.
mar	Margins. Default c(5, 3, 3, 2.5).
bty	Axis lines. Default "n".
...	Additional arguments passed to par

**Value**

Returns an invisible named list.

**Examples**

```
# save user's current par values that this function will change
oldpar <- par("family", "adj", "mar", "bty")
set_signif_par()
plot(1:4, 1:4, col=1:4, main = "Title")
par(oldpar)
```

---

signif_blue	<i>Significance blue hex colour</i>
-------------	-------------------------------------

---

**Description**

Significance blue hex colour

**Usage**

```
signif_blue
```

**Format**

An object of class character of length 1.

---

signif_green	<i>Significance green hex colour</i>
--------------	--------------------------------------

---

**Description**

Significance green hex colour

**Usage**

```
signif_green
```

**Format**

An object of class character of length 1.

---

signif_orange	<i>Significance orange hex colour</i>
---------------	---------------------------------------

---

**Description**

Significance orange hex colour

**Usage**

signif\_orange

**Format**

An object of class character of length 1.

---

signif_red	<i>Significance red hex colour</i>
------------	------------------------------------

---

**Description**

Significance red hex colour

**Usage**

signif\_red

**Format**

An object of class character of length 1.

---

signif_yellow	<i>Significance yellow hex colour</i>
---------------	---------------------------------------

---

**Description**

Significance yellow hex colour

**Usage**

signif\_yellow

**Format**

An object of class character of length 1.

---

theme_significance	<i>Significance theme</i>
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---

## Description

Custom ggplot theme

## Usage

```
theme_significance(  
  family = "Source Sans Pro",  
  base_size = 13,  
  hjust = 0,  
  text_col = "black",  
  bg_col = "white"  
)
```

## Arguments

family	Font used for all text elements. Default "Source Sans Pro".
base_size	Base font size for text elements. Default 12.
hjust	Horizontal alignment of title, subtitle, and caption. Default 0.
text_col	Text colour. Default "black".
bg_col	Background colour. Default "white".

## Value

A ggplot2 theme

## Examples

```
library(ggplot2)  
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +  
  geom_point() +  
  theme_significance()
```

---

view\_all\_palettes      *Prints all available colour palettes*

---

**Description**

Prints all available colour palettes

**Usage**

```
view_all_palettes()
```

**Value**

A plot of all colour palettes available in the package.

**Examples**

```
view_all_palettes()
```

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