

# Package ‘jcolors’

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**Type** Package

**Title** Colors Palettes for R and 'ggplot2', Additional Themes for 'ggplot2'

**Version** 0.0.4

**Description**

Contains a selection of color palettes and 'ggplot2' themes designed by the package author.

**URL** <https://jaredhuling.github.io/jcolors/>

**BugReports** <https://github.com/jaredhuling/jcolors/issues>

**License** GPL-2

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 3.2.0)

**Imports** grDevices, scales, ggplot2 (>= 3.0.0)

**RoxygenNote** 6.1.1

**Suggests** knitr, rmarkdown, gridExtra

**VignetteBuilder** knitr

**NeedsCompilation** no

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`display_all_jcolors`    *Display all jcolors*

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### **Description**

Creates different vectors of related colors that may be useful for figures.

### **Usage**

`display_all_jcolors()`

### **Examples**

`display_all_jcolors()`

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`display_all_jcolors_contin`  
*Display every jcolors\_contin palette*

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### **Description**

displays all of the continuous jcolors palettes

### **Usage**

`display_all_jcolors_contin()`

### **Examples**

`display_all_jcolors_contin()`

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display_jcolors	<i>Display jcolors</i>
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**Description**

displays the discrete jcolors palettes

**Usage**

```
display_jcolors(palette = c("default", "pal2", "pal3", "pal4", "pal5",  
"pal6", "pal7", "pal8", "pal9", "pal10", "pal11", "pal12", "rainbow"))
```

**Arguments**

palette            Character string indicating a palette of colors.

**Examples**

```
display_jcolors()
```

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display_jcolors_contin	<i>Display jcolors_contin</i>
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**Description**

displays the continuous jcolors palettes

**Usage**

```
display_jcolors_contin(palette = c("default", "pal2", "pal3", "pal4",  
"pal10", "pal11", "pal12", "rainbow"))
```

**Arguments**

palette            Character string indicating a palette of colors.

**Examples**

```
display_jcolors_contin()
```

---

jcolors *Vectors of colors for figures*

---

### Description

Creates different vectors of related colors that may be useful for figures.

### Usage

```
jcolors(palette = c("default", "pal2", "pal3", "pal4", "pal5", "pal6",
  "pal7", "pal8", "pal9", "pal10", "pal11", "pal12", "rainbow"))
```

### Arguments

palette Character string indicating a palette of colors.

### Value

Vector of character strings representing the chosen palette of colors.

### Examples

```
par(mar=c(0.6,5.1,0.6,0.6))
plot(0, 0, type = "n", xlab = "", ylab = "", xlim = c(0, 6), ylim = c(4, 0), yaxs = "i",
  xaxt = "n", yaxt = "n", xaxs = "i")
axis(side=3, at=1:3, c("default", "pal2", "pal3"), las=1)

def <- jcolors("default")
points(seq(along = def), rep(1, length(def)), pch = 22, bg = def, cex = 8)
pal2 <- jcolors("pal2")
points(seq(along = pal2), rep(2, length(pal2)), pch = 22, bg = pal2, cex = 8)
pal3 <- jcolors("pal3")
points(seq(along = pal3), rep(3, length(pal3)), pch = 22, bg = pal3, cex = 8)
```

---

jcolors\_contin *continuous palettes of colors for figures*

---

### Description

Creates different color palette functions

### Usage

```
jcolors_contin(palette = c("default", "pal2", "pal3", "pal4", "pal10",
  "pal11", "pal12", "rainbow"), reverse = FALSE,
  interpolate = c("spline", "linear"), ...)
```

**Arguments**

palette	Character string indicating a palette of colors.
reverse	logical value indicating whether the color palette should be reversed. Defaults to FALSE
interpolate	Character string for color interpolation method. "linear" or "spline" interpolation available
...	other arguments to be passed to <a href="#">colorRampPalette</a> . See <a href="#">colorRampPalette</a> for details

**Value**

returns a function that takes an integer argument (the required number of colors), which then returns a character vector of colors

**Examples**

```
colfunc <- jcolors_contin()
jcols <- colfunc(1000)
n <- length(jcols)
image(1:n, 1, as.matrix(1:n),
      col = jcols,
      xlab = "", ylab = "",
      xaxt = "n", yaxt = "n", bty = "n")
```

---

scale\_color\_jcolors\_contin

*continuous jcolors color scales*

---

**Description**

continuous jcolors color scales

jcolors color scales

**Usage**

```
scale_color_jcolors_contin(palette = c("default", "pal2", "pal3", "pal4",
  "pal10", "pal11", "pal12", "rainbow"), ...)
```

```
scale_colour_jcolors_contin(palette = c("default", "pal2", "pal3",
  "pal4", "pal10", "pal11", "pal12", "rainbow"), ...)
```

```
scale_fill_jcolors_contin(palette = c("default", "pal2", "pal3", "pal4",
  "pal10", "pal11", "pal12", "rainbow"), ...)
```

```
scale_color_jcolors(palette = c("default", "pal2", "pal3", "pal4",
  "pal5", "pal6", "pal7", "pal8", "pal9", "pal10", "pal11", "pal12",
  "rainbow"), ...)
```

```
scale_colour_jcolors(palette = c("default", "pal2", "pal3", "pal4",
  "pal5", "pal6", "pal7", "pal8", "pal9", "pal10", "pal11", "pal12",
  "rainbow"), ...)
```

```
scale_fill_jcolors(palette = c("default", "pal2", "pal3", "pal4", "pal5",
  "pal6", "pal7", "pal8", "pal9", "pal10", "pal11", "pal12", "rainbow"),
  ...)
```

### Arguments

palette	Character string indicating a palette of colors.
...	additional parameters for <a href="#">discrete_scale</a>

### Examples

```
library(ggplot2)

plt <- ggplot(data.frame(x = rnorm(10000), y = rexp(10000, 1.5)), aes(x = x, y = y)) +
  geom_hex() + coord_fixed()

plt + scale_fill_jcolors_contin() + theme_bw()

plt + scale_fill_jcolors_contin("pal2", bias = 1.5) + theme_bw()

plt + scale_fill_jcolors_contin("pal3") + theme_bw()
```

```
library(ggplot2)
data(morley)

plt1 <- ggplot(data = morley, aes(x = Run, y = Speed,
  group = factor(Expt),
  colour = factor(Expt))) +
  geom_line(size = 2) +
  theme_bw() +
  theme(panel.background = element_rect(fill = "grey97"),
    panel.border = element_blank())

plt2 <- ggplot(data = morley, aes(x = Run, y = Speed,
  group = factor(Expt),
  colour = factor(Expt))) +
  geom_line(size = 2) +
  theme_bw() +
  theme(panel.background = element_rect(fill = "grey15"),
    panel.border = element_blank(),
    panel.grid.major = element_line(color = "grey45"),
    panel.grid.minor = element_line(color = "grey25"))
```

```
pltl + scale_color_jcolors(palette = "default")  
pltd + scale_color_jcolors(palette = "default")
```

---

theme_dark_bg	<i>minimal theme for dark backgrounds</i>
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---

### Description

minimal theme for dark backgrounds  
minimal theme for light backgrounds

### Usage

```
theme_dark_bg(base_size = 12, base_family = "sans",  
              base_line_size = base_size/22, base_rect_size = base_size/22)  
  
theme_light_bg(base_size = 12, base_family = "sans",  
               base_line_size = base_size/22, base_rect_size = base_size/22)
```

### Arguments

base_size	base font size
base_family	base font family
base_line_size	base size for line elements
base_rect_size	base size for rect elements

### Examples

```
library(ggplot2)  
  
p <- ggplot(mtcars) + geom_point(aes(x = wt, y = mpg,  
  colour = factor(gear))) + facet_grid(vs~am)  
p + theme_dark_bg()  
  
p <- ggplot(mtcars) + geom_point(aes(x = wt, y = mpg,  
  colour = factor(gear))) + facet_grid(vs~am)  
p + theme_light_bg()
```

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