

Package ‘xtermStyle’

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Encoding UTF-8

Type Package

Title Terminal Text Formatting Using Escape Sequences

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Description Can be used for coloring output in terminals.

It was developed for the standard Ubuntu terminal but should be compatible with any terminal using xterm or ANSI escape sequences. If run in windows, RStudio, or any other platform not supporting such escape sequences it gracefully passes on any output without modifying it.

License GPL (>= 2)

LazyLoad yes

URL <https://github.com/backlin/xtermStyle>

BugReports <https://github.com/backlin/xtermStyle/issues>

NeedsCompilation no

Repository CRAN

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R topics documented:

discrete.color	2
display.xterm.colors	3
print.xtermStyle	4
style	4
style.auto	5
style.palette	6
xterm.pal	7
xterm256.to.ANSI	8

Index	9
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discrete.color *Map numbers onto a palette*

Description

The continuous interval defined by `range` is divided into bins of equal size. Each bin is mapped to a colour in the palette defined by `pal`. The values in `x` are then assigned to the bins and their corresponding colours are returned. Values outside the interval are assigned to the border bins.

Usage

```
discrete.color(x, range = range(x), pal = "GnRd")
```

Arguments

<code>x</code>	Continuous numbers.
<code>range</code>	The interval in <code>x</code> that will be mapped to the palette.
<code>pal</code>	Palette. Can be the name of a predefined palette, as returned by xterm.pal , or a vector of colour indices directly.

Value

Colour indices from `pal` corresponding to where in the range the values in `x` are.

Author(s)

Christofer Bäcklin

See Also

[xterm.pal](#)

Examples

```
error.rates <- .6*runif(10)
for(q in error.rates)
  style(q, "\n", fg=discrete.color(q, c(0, .5), "GnRd"))
```

display.xterm.colors *Display color tables*

Description

The xterm colour table consist of the ANSI colours (16), the web colour cube (216) and additional shades of grey not including full white and black (16). However these are not strictly defined but can vary somewhat between systems and configurations.

Usage

```
display.xterm.colors(perm = 1:3)
```

```
display.ANSI.colors(numbers = TRUE)
```

Arguments

perm	Rotation of the colour cube, supplied as a permutation of its dimensions. Sent to aperm .
numbers	Logical, whether to display colour indices.

Value

Nothing

Author(s)

Christofer Bäcklin

See Also

[style](#)

Examples

```
display.xterm.colors()
display.ANSI.colors()
```

`print.xtermStyle` *Print a style object*

Description

Print a style object

Usage

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

Arguments

`x` [style](#) object.
`...` Ignored, kept for S3 consistency.

Author(s)

Christofer Bäcklin

See Also

[style](#)

`style` *Color terminal output*

Description

Talk about the different options. `style.mode`, `style.palette`.

Usage

```
style(..., fg = NA, bg = NA, font = NA, mode = c("xterm-256color",  
          "ANSI", "off"))
```

```
style.clear(...)
```

```
style.off()
```

```
style.on()
```

Arguments

...	Sent to cat .
fg	Foreground color i.e. color of the text. Can be any number in [0, 255] or a string such as "grey" or "dark red" (for the basic 16 colors).
bg	Background color. Takes the same values as fg.
font	A vector containg any combination of the following font styles: "normal", "bold", "underline", "blink" (renders as bold on most terminals), "inverse". Note that these may not be rendered on all terminals.
mode	Escape code mode.

Value

Nothing, sends all output to [cat](#).

Author(s)

Christofer Bäcklin

Christofer Bäcklin

See Also

[style](#)

Examples

```
style("Blue suede shoes\n", bg="blue")
style(fg="red")
cat("everything is red now!")
style(NULL)
cat("but not anymore!")
```

style.auto

Automatic styling according to object properties.

Description

Automatic styling according to object properties.

Usage

```
style.auto(x, ...)
```

Arguments

x	Object to decide formatting from.
...	Sent to style .

Value

See [style](#).

Author(s)

Christofer Bäcklin

See Also

style, style.palette

style.palette	<i>Define the palette for auto-styling</i>
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Description

Define the palette for auto-styling

Usage

```
style.palette(x, ...)
```

```
get.palette(x = c("dark", "light"))
```

Arguments

x	Palette name or definition.
...	Settings that override the defaults.

Value

Nothing, sets the appropriate [options](#) variables.

Author(s)

Christofer Bäcklin

See Also

style.auto, display.xterm.colors

Examples

```
style.palette("light")
style.palette(list(fg=c(numeric=10, character=13)))
style.palette("light", fg=c(numeric=10, character=13))
```

xterm.pal	<i>Get predefined colour palettes</i>
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Description

All except "GnRd" and "long" are basen on the color brewer palettes, see [brewer.pal](#) of the RColorBrewer package.

Usage

```
xterm.pal()
xterm.pal.inv()
display.xterm.pal()
```

Value

A list of vectors with colour indices.

Author(s)

Christofer Bäcklin

See Also

`display.xterm.pal`, `display.xterm.colors`

Examples

```
display.xterm.pal()
pal <- xterm.pal()$Accent

freqs <- runif(6)
fruits <- factor(sample(6, size=30, replace=TRUE, freqs/sum(freqs)),
                 labels=c("apple", "grapes", "banana", "lemon",
                          "blueberry", "raspberry"))
for(i in 1:length(fruits))
  cat(style(fruits[i], "\n", fg=pal[fruits[i]]))
```

xterm256.to.ANSI *Convert xterm256 color code to ANSI code*

Description

Convert xterm256 color code to ANSI code

Usage

xterm256.to.ANSI(x)

Arguments

x Integer specifying xterm256 color.

Value

Integer that approximates x in the ANSI palette.

Author(s)

Christofer Bäcklin

Index

`aperm`, 3

`brewer.pal`, 7

`cat`, 5

`discrete.color`, 2

`display.ANSI.colors`
 (`display.xterm.colors`), 3

`display.xterm.colors`, 3

`display.xterm.pal` (`xterm.pal`), 7

`get.palette` (`style.palette`), 6

`options`, 6

`print.xtermStyle`, 4

`style`, 4, 4, 5, 6

`style.auto`, 5

`style.palette`, 6

`xterm.pal`, 2, 7

`xterm256.to.ANSI`, 8