Package ‘xtermStyle’

May 21, 2015

Encoding UTF-8
Type Package
Title Terminal Text Formatting Using Escape Sequences
Version 3.0.5
Date 2015-05-20
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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
Date/Publication 2015-05-21 00:34:27

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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

x
Continuous numbers.

range
The interval in x that will be mapped to the palette.

pal
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 <- .5*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 color 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**

```r
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**

```r
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

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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 containing 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

Define the palette for auto-styling

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

Get predefined colour palettes

Description
All except "GnRd" and "long" are based on the color brewer palettes, see brewer.pal of the 
RCColorBrewer 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

frels <- runif(6)
fruits <- factor(sample(6, size=30, replace=TRUE, freqs/sum(frels)),
  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
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