

Package ‘multicolor’

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Type Package

Title Add Multiple Colors to your Console & RMarkdown Output

Version 0.1.5

Description Add multiple colors to text that is printed to the console.

Depends R (>= 2.10)

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Encoding UTF-8

URL <https://github.com/aedobbyn/multicolor/>

BugReports <https://github.com/aedobbyn/multicolor/issues/>

Imports cowsay, crayon, dplyr, glue, magrittr, purrr, stringi,
stringr, tibble (>= 1.2), tidy

Suggests covr, fansi, knitr, rmarkdown, testthat, viridisLite,
wesanderson

RoxygenNote 7.1.1

VignetteBuilder knitr

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center_string	<i>Center all lines of a string relative to console width.</i>
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Description

Center all lines of a string relative to console width.

Usage

```
center_string(string, remove_last_break = TRUE, display = FALSE)
```

Arguments

string	(character) Some text to center within console.
remove_last_break	(logical) Set to TRUE to remove last line break. Defaults to FALSE.
display	(logical) Returns string invisibly if FALSE (default), set to TRUE to display returned string

Details

To removes last line break set `removelastbreak` to TRUE.

Value

A string

Examples

```
triangle_string(starwars_intro, display = TRUE) %>%
  center_string() %>%
  multi_color(direction = "horizontal", recycle_chars = TRUE)
```

crawl	<i>Multi-color crawling text</i>
-------	----------------------------------

Description

This function crawls over `txt` producing an animated gif-like representation of the text unfolding from left to right or top to bottom, depending on `direction`, colored according to `colors`.

Usage

```
crawl(  
  txt = "hello world!",  
  colors = NULL,  
  recycle_chars = FALSE,  
  direction = "vertical",  
  pause = 0.05,  
  ...  
)
```

Arguments

<code>txt</code>	(character) Some text to color, stripped of line breaks
<code>colors</code>	(character) A vector of colors to color each individual character, if <code>recycle_chars</code> is TRUE, or the whole string if FALSE, defaulting to the Viridis Plasma palette. Must all be <code>crayon</code> -supported colors. Any colors in <code>colors()</code> or hex values (see <code>?rgb</code>) are fair game.
<code>recycle_chars</code>	(logical) Should the vector of colors supplied apply to the entire string or should it apply to each individual character (if <code>direction</code> is vertical) or line (if <code>direction</code> is horizontal), and be recycled?
<code>direction</code>	(character) How should the colors be spread? One of "horizontal" or "vertical".
<code>pause</code>	(numeric) Seconds to pause between characters in seconds.
<code>...</code>	Further args passed to <code>multi_color</code> .

Details

This function requires as many colors as there are characters in your string and prints them one at a time. `colors` will be recycled in single-color equal-sized chunks if `recycle_char` is FALSE and character-by-character if `recycle_char` is TRUE.

Colors cannot be applied in RGUI (R.app on some systems) or other environments that do not support colored text. In these cases, the `txt` will simply be crawled over without applying colors.

Value

A string, printed in colors with `pause` seconds between printing each character.

Examples

```
## Not run:
crawl()

crawl("It was a dark and stormy night")

crawl("Taste the rainbow", colors = "rainbow")

crawl(things[["hypnotoad"]],
      colors = c("purple", "blue", "cyan"),
      direction = "horizontal", recycle_chars = TRUE, pause = 0.01
)

options("keep.source = FALSE")
crawl("\014A long time ago in a galaxy far, far away...
It is a period of civil war. Rebel spaceships, striking from a hidden base,
have won their first victory against the evil Galactic Empire.")

## End(Not run)
```

insert_rainbow

Insert Rainbow

Description

Take the string "rainbow" and replace it with c("red", "orange", "yellow", "green", "blue", "purple")

Usage

```
insert_rainbow(clr)
```

Arguments

clr (character) A vector of one or more colors.

Value

A character vector of color names.

Examples

```
insert_rainbow("rainbow")
insert_rainbow(c("lightsteelblue", "rainbow", "lightsalmon"))
```

multicolor_logo	<i>The multicolor package logo</i>
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Description

The multicolor package logo

Usage

```
multicolor_logo(colors = "random", ...)
```

Arguments

colors	Vector of colors for the logo. Defaults to "random" which randomly selects one of the palettes.
...	Arguments passed to multi_color.

Details

This function displays the multicolor package logo in a randomly selected color palette from a pre-selected list of colors.

Examples

```
multicolor_logo()  
multicolor_logo(recycle_chars = TRUE)  
multicolor_logo(colors = c("red", "blue"))
```

multi_color	<i>Multi-color text</i>
-------------	-------------------------

Description

Multi-color text

Usage

```
multi_color(  
  txt = "hello world!",  
  colors = "rainbow",  
  type = "message",  
  direction = "vertical",  
  recycle_chars = FALSE,  
  add_leading_newline = FALSE,  
  ...  
)
```

Arguments

txt	(character) Some text to color. <code>cowsay</code> animals are available in a list of <code>multicolor::things</code> , e.g. <code>things\$cow</code> .
colors	(character) A vector of colors, defaulting to "rainbow", i.e. <code>c("red", "orange", "yellow", "green", "blue", "purple")</code> . Several out-of-the-box palettes are available; see <code>multicolor::palettes</code> . Must all be <code>crayon</code> -supported colors. Any colors in <code>colors()</code> or hex values (see <code>?rgb</code>) are fair game.
type	(character) "message" (the default), "warning", "string", or "rmd". If "rmd" is used, the type of the RMarkdown document should be <code>html_document</code> the chunk option <code>results = "asis"</code> should be used.
direction	(character) How should the colors be spread? One of "horizontal" or "vertical".
recycle_chars	(logical) Should the vector of colors supplied apply to the entire string or should it apply to each individual character (if <code>direction</code> is vertical) or line (if <code>direction</code> is horizontal), and be recycled?
add_leading_newline	Should a newline be added at the beginning of the text? Useful for <code>cowsay</code> animals when <code>type = "rmd"</code> .
...	Further args.

Details

This function evenly (ish) divides up your string into these colors in the order they appear in `colors`. It cannot be used with RGUI (R.app on some systems).

Value

A string if `type` is "string", or colored text if `type` is "message" or "warning"

Examples

```
## Not run:
multi_color()

multi_color("ahoy")

multi_color(
  "taste the rainbow",
  c("rainbow", "cyan", "cyan", "rainbow")
)
multi_color(
  "taste the rainbow",
  c(
    "mediumpurple",
    "rainbow",
    "cyan3"
  )
)
```

```
multi_color(colors = c(
  rgb(0.1, 0.2, 0.5),
  "yellow",
  rgb(0.2, 0.9, 0.1)
))

multi_color(
  things$buffalo,
  c("mediumorchid4", "dodgerblue1", "lemonchiffon1")
)

# Built-in color palette
multi_color(things$cow, colors = palettes$lacroix)

multi_color(cowsay:::rms, sample(colors(), 10))

# Mystery Bulgarian animal
multi_color(things[[sample(length(things), 1)]],
  c("white", "darkgreen", "darkred"),
  direction = "horizontal"
)

# Mystery Italian animal
multi_color(things[[sample(length(things), 1)]],
  c("darkgreen", "white", "darkred"),
  direction = "vertical"
)

## End(Not run)
```

multi_colour

Multi-colour text

Description

Multi-colour text

Usage

```
multi_colour(
  txt = "hello world!",
  colors = "rainbow",
  type = "message",
  direction = "vertical",
  recycle_chars = FALSE,
  add_leading_newline = FALSE,
  ...
)
```

Arguments

txt	(character) Some text to colour. <code>cowsay</code> animals are available in a list of <code>multi_colour::things</code> , e.g. <code>things\$cow</code> .
colors	(character) A vector of colours, defaulting to "rainbow", i.e. <code>c("red", "orange", "yellow", "green", "blue", "purple")</code> . Several out-of-the-box palettes are available; see <code>multi_colour::palettes</code> . Must all be <code>crayon</code> -supported colours. Any colours in <code>colours()</code> or hex values (see <code>?rgb</code>) are fair game.
type	(character) "message" (the default), "warning", "string", or "rmd". If "rmd" is used, the type of the RMarkdown document should be <code>html_document</code> the chunk option <code>results = "asis"</code> should be used.
direction	(character) How should the colours be spread? One of "horizontal" or "vertical".
recycle_chars	(logical) Should the vector of colours supplied apply to the entire string or should it apply to each individual character (if <code>direction</code> is vertical) or line (if <code>direction</code> is horizontal), and be recycled?
add_leading_newline	Should a newline be added at the beginning of the text? Useful for <code>cowsay</code> animals when <code>type = "rmd"</code> .
...	Further args.

Details

This function evenly (ish) divides up your string into these colours in the order they appear in `colors`.

It cannot be used with RGUI (R.app on some systems).

Value

A string if `type` is "string", or coloured text if `type` is "message" or "warning"

Examples

```
## Not run:
multi_colour()

multi_colour("ahoy")

multi_colour(
  "taste the rainbow",
  c("rainbow", "cyan", "cyan", "rainbow")
)
multi_colour(
  "taste the rainbow",
  c(
    "mediumpurple",
    "rainbow",
    "cyan3"
  )
)
```



```

)

multi_colour(colours = c(
  rgb(0.1, 0.2, 0.5),
  "yellow",
  rgb(0.2, 0.9, 0.1)
))

multi_colour(
  things$buffalo,
  c("mediumorchid4", "dodgerblue1", "lemonchiffon1")
)

# Built-in colour palette
multi_colour(things$cow, colours = palettes$lacroix)

multi_colour(cowsay:::rms, sample(colours(), 10))

# Mystery Bulgarian animal
multi_colour(things[[sample(length(things), 1)]],
  c("white", "darkgreen", "darkred"),
  direction = "horizontal"
)

# Mystery Italian animal
multi_colour(things[[sample(length(things), 1)]],
  c("darkgreen", "white", "darkred"),
  direction = "vertical"
)

## End(Not run)

```

nix_first_newline *Remove the first instance of a newline from a string*

Description

Remove the first instance of a newline from a string

Usage

```
nix_first_newline(s)
```

Arguments

s (character) A string

Value

A string with the first instance of a newline removed.

Examples

```
nix_first_newline("onetwo\nthree\nfour")

# Nothing to remove
nix_first_newline("fivesixseven")
```

palettes

Out-of-the-box Color Palettes

Description

Take the string "rainbow" and replace it with c("red", "orange", "yellow", "green", "blue", "purple")

Usage

```
palettes
```

Format

An object of class list of length 4.

Value

A character vector of color values.

Examples

```
multi_color(things$cat, colors = palettes$lacroix)
```

starwars_intro

Star Wars a New Hope Intro

Description

The intro to Episode IV, for use in multicoloring experiments

Usage

```
starwars_intro
```

Format

An object of class character of length 1.

things	<i>Things</i>
--------	---------------

Description

Named vector of animals and other characters e.g. Yoda, from the cowsay package

Usage

```
things
```

Format

An object of class list of length 45.

Details

things is a named character list of ASCII animals and characters.

Examples

```
things[["turkey"]]
things[["chuck"]] %>% cat()
cowsay::animals[3] %>% cat()
names(things)
multi_color(things[["stretchycat"]]) # To say something, use the cowsay package
```

triangle_string	<i>Turn strings into triangle-shaped strings</i>
-----------------	--

Description

Turn strings into triangle-shaped strings

Usage

```
triangle_string(string, maxlen = 1, step = 1, display = FALSE)
```

Arguments

string	(character) Some text to reshape into a triangle.
maxlen	(integer) Width of top of triangle. Defaults to 1. Set larger than 1 for downward-pointing triangle.
step	(integer) Number of characters to expand or contract triangle width per line (set to negative for downward-pointing triangle)
display	(logical) Returns string invisibly if FALSE (default), set to TRUE to display returned string

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