

Package ‘WrensBookshelf’

August 15, 2022

Title A Collection of Palettes and Some Functions to Help Use Them

Version 0.1.0

Imports ggplot2

Description A collection of color palettes that were extracted from various books on my sons(Wren) bookshelf. Also included are a number of functions and wrappers to utilize them, as well as to subset the palettes to desired number/specific colors.

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.1.2

URL <https://github.com/buveges/WrensBookshelf>

BugReports <https://github.com/buveges/WrensBookshelf/issues>

NeedsCompilation no

Author Benjamin Uveges [aut, cre] (<<https://orcid.org/0000-0002-8981-8970>>)

Maintainer Benjamin Uveges <uvegesbti@gmail.com>

Repository CRAN

Date/Publication 2022-08-15 09:10:04 UTC

R topics documented:

scale_color_WB_c	2
scale_color_WB_d	2
scale_fill_WB_c	3
scale_fill_WB_d	4
ShowBook	4
ShowBookshelf	5
WB_brewer	6
WB_subset_brewer	7
WrensBookshelf	8

Index	9
--------------	----------

scale_color_WB_c *Use WrensBookshelf with ggplot*

Description

Wrapper function to allow easy integration with ggplot2. Sets continuous color scale.

Usage

```
scale_color_WB_c(name, direction = 1, ...)
```

Arguments

name	Name of palette from WrensBookshelf.
direction	Direction you want the palette to proceed; 1 = direction shown in ShowBookshelf() or ShowBook(), -1 = reversed.
...	See scale_color_gradientn() for additional params.

Value

No return value, integrates WB_brewer into ggplot2 function.

Examples

```
ggplot2::ggplot(mtcars, ggplot2::aes(x=disp,y=wt, color = mpg))+
  ggplot2::geom_point(size=3)+
  scale_color_WB_c(name = "WhatWellBuild")
```

scale_color_WB_d *Use WrensBookshelf with ggplot*

Description

Wrapper function to allow easy integration with ggplot2. Sets discrete color scale

Usage

```
scale_color_WB_d(name, direction = 1, override.order = FALSE, ...)
```

Arguments

name	Name of palette from WrensBookshelf.
direction	Direction you want the palette to proceed; 1 = direction shown in ShowBookshelf() or ShowBook(), -1 = reversed.
override.order	Argument used to override the prescribed order that colors are selected from palettes for discrete palettes where n < length(palette). Default = FALSE.
...	See discrete_scale() for additional params.

Value

No return value, integrates WB_brewer into ggplot2 function.

Examples

```
ggplot2::ggplot(mtcars, ggplot2::aes(x = disp,y = wt, color = factor(cyl)))+
ggplot2::geom_point(size=3)+
scale_color_WB_d(name = "YouMatter")
```

scale_fill_WB_c *Use WrensBookshelf with ggplot*

Description

Wrapper function to allow easy integration with ggplot2. Sets continuous fill scale.

Usage

```
scale_fill_WB_c(name, direction = 1, ...)
```

Arguments

name	Name of palette from WrensBookshelf.
direction	Direction you want the palette to proceed; 1 = direction shown in ShowBookshelf() or ShowBook(), -1 = reversed.
...	See scale_color_gradientn() for additional params.

Value

No return value, integrates WB_brewer into ggplot2 function.

Examples

```
ggplot2::ggplot(mtcars, ggplot2::aes(x = disp,y = wt, fill= mpg))+
ggplot2::geom_point(size=3, shape = 21)+
scale_fill_WB_c(name = "WhatWellBuild")
```

scale_fill_WB_d *Use WrensBookshelf with ggplot*

Description

Wrapper function to allow easy integration with ggplot2. Sets discrete color scale.

Usage

```
scale_fill_WB_d(name, direction = 1, override.order = FALSE, ...)
```

Arguments

name	Name of palette from WrensBookshelf.
direction	Direction you want the palette to proceed; 1 = direction shown in ShowBookshelf() or ShowBook(), -1 = reversed.
override.order	Argument used to override the prescribed order that colors are selected from palettes for discrete palettes where $n < \text{length}(\text{palette})$. Default = FALSE.
...	See discrete_scale() for additional params.

Value

No return value, integrates WB_brewer into ggplot2 function.

Examples

```
ggplot2::ggplot(mtcars, ggplot2::aes(x = disp, y = wt, fill = factor(cyl)))+
  ggplot2::geom_point(size = 3, shape = 21)+
  scale_fill_WB_d(name = "YouMatter")
```

ShowBook *View a book palette*

Description

Generates a graphic object using a specified palette from WrensBookshelf.

Usage

```
ShowBook(name)
```

Arguments

name	Name of desired palette.
------	--------------------------

Value

Graphic object.

Examples

```
ShowBook(name = "BabyWrenAndTheGreatGift")
```

ShowBookshelf

View all of Wren's Books

Description

Generates a graphic object with desired subset of palettes from WrensBookshelf.

Usage

```
ShowBookshelf(CVDsafe = FALSE, BestFor = NA)
```

Arguments

CVDsafe	Argument used to restrict displayed palettes to those that are color vision deficiency (CVD) safe. Default is FALSE, set to TRUE to enact filter.
BestFor	Argument used to restrict displayed palettes to those that are best for either continuous or discrete data types. Arguments are "discrete" or "continuous"

Value

Graphic object.

Examples

```
ShowBookshelf()  
ShowBookshelf(CVDsafe = TRUE, BestFor = "continuous")
```

WB_brewer

*Customize WrensBookshelf palettes***Description**

Function used to create continuous/discrete palettes using the palettes in WrensBookshelf.

Usage

```
WB_brewer(
  name,
  n,
  type = c("discrete", "continuous"),
  direction = c(1, -1),
  override.order = FALSE
)
```

Arguments

name	Name of palette from WrensBookshelf
n	Number of colors to select, or size of continuous palette if $n > \text{length}(\text{palette})$
type	Type of palette you wish to generate ("continuous" or "discrete")
direction	Direction you want the palette to proceed; 1 = direction shown in ShowBookshelf() or ShowBook(), -1 = reversed.
override.order	Argument used to override the prescribed order that colors are selected from palettes for discrete palettes where $n < \text{length}(\text{palette})$. Default = FALSE.

Value

A color palette.

Examples

```
WB_brewer(name = "BabyWrenAndTheGreatGift", type = "continuous", n = 200)
WB_brewer(name = "JulienIsAMermaid", type = "discrete",
           direction = -1, n = 7, override.order = TRUE)
```

Description

Function used to create customized continuous/discrete palettes using the palettes in WrensBookshelf, offering more specific control over selected colors than WB_brewer.

Usage

```
WB_subset_brewer(  
  name,  
  n = NA,  
  LCR,  
  type = c("continuous", "discrete"),  
  direction = c(1, -1),  
  n2 = NULL  
)
```

Arguments

name	Name of palette from WrensBookshelf.
n	Number of colors to select/subset.
LCR	Location from which you want select n colors from in specified palette ("left", "right", "center"). Can also use a vector of specific color numbers within palette (e.g. c(1,4,7))
type	Type of palette you wish to generate ("continuous" or "discrete")
direction	Direction you want the palette to proceed; 1 = direction shown in ShowBookshelf() or ShowBook(), -1 = reversed.
n2	If type = "continuous", length of palette to generate.

Value

Color palette.

Examples

```
WB_subset_brewer(name = "JulienIsAMermaid", n = 5,  
                 LCR = "left", type = "continuous", n2 = 200)  
WB_subset_brewer(name = "WhereTheWildThingsAre", type = "discrete", LCR = c(1,4,5,6))
```

WrensBookshelf

Complete list of palettes.

Description

Use `names(WrensBookshelf)` to display all possible palette names. Current available palettes: BabyBeluga, BabyWrenAndTheGreatGift, BlueberriesForSal, BoTheBrave, BoTheBraveCVDS, BurtDow, BurtDowCVDS, CapsForSale, GustavoTheShyGhostCover, GustavoTheShyGhostGraveyard, HaroldAndThePurpleCrayon, JeffGoesWild, JulienIsAMermaid, LittleBlueHouseBesideTheSeaCont, LittleBlueHouseBesideTheSeaDisc, Madeline, MakeWayForDucklings, MoreThanALittle, OhThePlacesYoullGo, Opposites, StackTheCats, TheDucklingGetsACookie, TheHoneybee, TheHoneybeeDiverging, ThePoutPoutFish, TheSnowyDay, TheStoryOfBabar, TheseWordsIShapedForYou, ThisMooseBelongsToMe, ThreeLittleVikings, TigerDays, TinyPerfectThings, Vampenguin, WhatWellBuild, WhereTheWildThingsAre, and YouMatter.

Usage

`WrensBookshelf`

Format

An object of class `list` of length 40.

Value

No return value, sets a list of palettes to be used with `WrensBookshelf` functions

Index

* datasets

WrensBookshelf, [8](#)

[scale_color_WB_c](#), [2](#)
[scale_color_WB_d](#), [2](#)
[scale_fill_WB_c](#), [3](#)
[scale_fill_WB_d](#), [4](#)
[ShowBook](#), [4](#)
[ShowBookshelf](#), [5](#)

[WB_brewer](#), [6](#)
[WB_subset_brewer](#), [7](#)
[WrensBookshelf](#), [8](#)