Package ‘unikn’
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Description Define and use graphical elements of corporate design manuals in R. The ‘unikn’ package provides color functions (by defining dedicated colors and color palettes, and commands for changing, viewing, and using them) and styled text elements (e.g., for marking, underlining, or plotting colored titles). The pre-defined range of colors and text functions is based on the corporate design of the University of Konstanz <https://www.uni-konstanz.de/>, but can be adapted and extended for other institutions and purposes.
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**Bordeaux**

uni.kn color Bordeaux.

**Description**

Bordeaux provides the preferred color of `pal_bordeaux` (as an atomic HEX character value) and is defined as `pal_bordeaux[[4]]`.

**Usage**

**Format**

An object of class character of length 1.

**Details**


**See Also**

`pal_bordeaux` for the corresponding color palette; `pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other preferred colors: Grau, Karpfenblau, Peach, Petrol, Pinky, Seeblau, Seegruen, Signal

**Examples**

```r
Bordeaux  # HEX character "#8E2043" (as value)
all.equal(Bordeaux, pal_bordeaux[[4]])  # TRUE (same HEX values)

seecol(Bordeaux)  # view color and details
```

---

**Grau**

uni.kn color Grau.

**Description**

Grau provides the preferred color of `pal_grau` (as an atomic HEX character value) and is defined as `pal_grau[[3]]`.

**Usage**

Grau
heading

Format

An object of class character of length 1.

Details


See Also

pal_grau for the corresponding color palette; pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_unikn_pref for a uni.kn color palette with all preferred colors; seecol to show color palettes; usecol to use color palettes.

Other preferred colors: Bordeaux, Karpfenblau, Peach, Petrol, Pinky, Seeblau, Seegruen, Signal

Examples

Grau # HEX character "#9AA0A7" (as value)
all.equal(Grau, pal_grau[[3]]) # TRUE (same HEX values)

seecol(Grau) # view color and details

heading

Plot a heading (as marked text elements).

Description

heading plots 1 or more text strings (provided as a character vector labels) as a heading to an (existing or new) plot and places a colored box behind each label to mark it (i.e., highlighting the heading).

Usage

heading(labels, x = 0, y = 0.8, y_layout = "flush", col = "black",
        col_bg = "default", cex = 2, font = 2, new_plot = "slide")

Arguments

labels A character vector specifying the text labels to be plotted.

x A numeric vector of x-coordinates at which the text labels in labels should be written. If the lengths of x and y differ, the shorter one is recycled. Default: x = 0.

y A numeric vector of y-coordinates at which the text labels in labels should be written. If the lengths of x and y differ, the shorter one is recycled. Default: y = .8.
heading

**y_layout**
A numeric value or vector for the vertical spacing of labels in labels. 2 special values are "even" (i.e., even distribution of labels across available y-space) and "flush" (i.e., no space between adjacent labels, or y_layout = 0). Default: y_layout = "flush".

**col**
The color(s) of the text label(s). Default: col_lbl = "black".

**col_bg**
The color(s) to highlight or fill the rectangle(s) with. Default: col_bg = "default" (to automatically select different shades of pal_seeblau).

**cex**
Numeric character expansion factor(s), multiplied by par("cex") to yield the character size(s). Default: cex = 2.

**font**
The font type(s) to be used. Default: font = 2 (i.e., bold).

**new_plot**
Boolean: Should a new plot be generated? Set to "blank" or "slide" to create a new plot, and to "none" to add to an existing plot. Default: new_plot = "slide" (i.e., create a new slide).

**Details**
Text formatting parameters (like col, col_bg, cex, font) are recycled to match length(labels).

heading uses the base graphics system graphics::

**See Also**
slide and xbox to create simple plots (without text).

**Examples**

heading(labels = c("This is a headline", "containing two lines."))

# Note the warning:
heading(labels = c("Headlines", "with 3 or more lines",
   "should not be arranged", "in such a step-wise fashion."))

# Avoiding the warning:
heading(labels = c("Headlines with", "3 or more lines should",
   "not be arranged", "in a step-wise fashion."))

# Using non-default colors:
heading(labels = c("Ene,", "mene, miste,", "es rappelt", "in der Kiste."),
   cex = 1.6, col = "white", col_bg = usecol(c(Pinky, Seegruen, Bordeaux, Karpfenblau)))

#' @family text functions
Karpfenblau  

uni.kn color Karpfenblau.

Description

Karpfenblau provides the preferred color of `pal_karpfenblau` (as an atomic HEX character value) and is defined as `pal_karpfenblau[[4]]`.

Usage

Karpfenblau

Format

An object of class character of length 1.

Details


See Also

`pal_karpfenblau` for the corresponding color palette; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `pal_unikn` for the default uni.kn color palette; `seecol` to show color palettes; `usecol` to use color palettes.

Other preferred colors: Bordeaux, Grau, Peach, Petrol, Pinky, Seeblau, Seebrun, Signal

Examples

```
Karpfenblau  # HEX character "#3E5496" (as value)
all.equal(Karpfenblau, pal_karpfenblau[[4]])  # TRUE (same HEX values)

seecol(Karpfenblau)  # view color and details
```

mark

Plot marked (or highlighted) text elements.

Description

mark plots 1 or more text strings (provided as a character vector `labels`) to an (existing or new) plot and places a colored box behind each label to mark it (i.e., highlight or make it stand out from the background).
Usage

mark(labels, x = 0, y = 0.55, y_layout = "even", col = "black", col_bg = Seeblau, cex = 2, font = 2, new_plot = "none")

Arguments

labels A character vector specifying the text labels to be plotted.
x A numeric vector of x-coordinates at which the text labels in labels should be written. If the lengths of x and y differ, the shorter one is recycled. Default: x = 0.
y A numeric vector of y-coordinates at which the text labels in labels should be written. If the lengths of x and y differ, the shorter one is recycled. Default: y = 0.55.
y_layout A numeric value or vector for the vertical spacing of labels in labels. 2 special values are "even" (i.e., even distribution of labels across available y-space) and "flush" (i.e., no space between adjacent labels, or y_layout = 0). Default: y_layout = "even".
col The color(s) of the text label(s). Default: col_lbl = "black".
col_bg The color(s) to highlight or fill the rectangle(s) with. Default: col_bg = Seeblau.
cex Numeric character expansion factor(s), multiplied by par("cex") to yield the character size(s). Default: cex = 2.
font The font type(s) to be used. Default: font = 2 (i.e., bold).
new_plot Should a new plot be generated? Set to "blank" or "slide" to create a new plot. Default: new_plot = "none" (i.e., add to an existing plot).

Details

The positions of the text elements in labels can be specified by providing their coordinates (as x and y arguments) or by providing an initial position and an y_layout (see below).

Text formatting parameters (like col, col_bg, cex, font) are recycled to match length(labels).

mark uses the base graphics system graphics::.

See Also

slide and xbox to create simple plots (without text).

Other text functions: post, uline, url_unikn

Examples

# Basics:
mark(labels = "This is a test.", new_plot = "blank") # create a new blank plot
mark(labels = "More testing here...", y = .45, col_bg = pal_pinky[[2]]) # add to plot

# Example:
# (a) Mark text on an existing plot:
plot(x = 0, y = 0, type = "n", xlim = c(0, 1), ylim = c(0, 1), xlab = "", ylab = "")
newpal

Define new color palettes.

Description

newpal allows defining new color palettes (as data frames).

Usage

newpal(col, names = NA, as_df = FALSE)

Arguments

col A required vector of colors (specified by their R color names, HEX codes, or RGB values).

names An optional character vector of names. Default: names = NA, yielding numeric names.

as_df Should the new color palette be returned as a data frame (rather than as a vector)? Default: as_df = FALSE.

See Also

seepal to plot color palettes; usecol to use a color palette.

Other color functions: seecol, usecol

Examples

newpal(col = c("black", "white"), names = c("dark", "bright"))

# Example: 3 ways of defining a new color palette:
# (1) From R color names: -----
pal_flag_de <- newpal(col = c("black", "firebrick3", "gold"),
                      names = c("Schwarz", "Rot", "Gold"))
seecol(pal_flag_de, title = "Colors in the flag of Germany")

# (2) From HEX values: -----
# (a) Google logo colors:
# Source: https://www.schemecolor.com/google-logo-colors.php
color_google <- c("#4285f4", "#34a853", "#fbbc05", "#ea4335")
names_google <- c("blueberry", "sea green", "selective yellow", "cinnabar")
pal_google <- newpal(color_google, names_google)
seecol(pal_google, title = "Colors of the Google logo", col_brd = "white", lwd_brd = 10)

# (b) German flag revised:
# Based on a different source at
# <https://www.schemecolor.com/germany-flag-colors.php>:
pal_flag_de_2 <- newpal(col = c("#000000", "#dd0000", "#ffce00"),
                        names = c("black", "red", "gold"))
seecol(pal_flag_de_2, title = "Colors of the German flag (www.schemecolor.com")

# (c) MPG colors:
pal_mpg <- newpal(col = c("#007367", "white", "#D0D3D4"),
                  names = c("mpg green", "white", "mpg grey"))
seecol(pal_mpg, title = "Colors of the Max Planck Society")

# (3) From RGB values: -----
# Barrier-free color palette
# Source: Okabe & Ito (2002): Color Universal Design (CUD):
# Fig. 16 of <https://jfly.uni-koeln.de/color/>:
# (a) Vector of colors (as RGB values):
o_i_colors <- c(rgb( 0, 0, 0, maxColorValue = 255), # black
                rgb(230, 159, 0, maxColorValue = 255), # orange
                rgb( 86, 180, 233, maxColorValue = 255), # skyblue
                rgb( 0, 158, 115, maxColorValue = 255), # green
                rgb(240, 228, 66, maxColorValue = 255), # yellow
                rgb( 0, 114, 178, maxColorValue = 255), # blue
                rgb(213, 94, 0, maxColorValue = 255), # vermilion
                rgb(204, 121, 167, maxColorValue = 255) # purple
)

# (b) Vector of color names:
o_i_names <- c("black", "orange", "skyblue", "green", "yellow", "blue", "vermilion", "purple")

# (c) Use newpal() to combine colors and names:
pal_okabe_ito <- newpal(col = o_i_colors,
                        names = o_i_names)
seecol(pal_okabe_ito,
       title = "Color-blind friendly color scale (Okabe & Ito, 2002")")
# Compare custom color palettes:
my_pals <- list(pal_flag_de, pal_flag_de_2, pal_google, pal_mpg, pal_okabe_ito)
seecol(my_pals, col_brd = "white", lwd_brd = 5,
    title = "Comparing custom color palettes")

---

pal_bordeaux

.uni.kn bordeaux color palette.

Description
pal_bordeaux provides an additional uni.kn color palette as a data frame containing 5 colors (shades of Bordeaux).

Usage
pal_bordeaux

Format
An object of class data.frame with 1 rows and 5 columns.

Details

See Also
pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_peach and pal_pinky for alternative redish uni.kn color palettes; pal_unikn_pref for a uni.kn color palette with all preferred colors; seecol to show and use color palettes.

Other color palettes: pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seeblau, pal_seegruen, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web, pal_unikn

Examples
pal_bordeaux
dim(pal_bordeaux) # 1 5
pal_bordeaux[4] # preferred (named) color "bordeaux4"
pal_bordeaux[[4]] # preferred color "bordeaux4" OR "#8E2043"

# Plotting palette:
seecol(pal_bordeaux)
Description

`pal_grau` provides an additional uni.kn color palette as a data frame containing 5 colors (shades of Grau or grey).

Usage

`pal_grau`

Format

An object of class `data.frame` with 1 rows and 5 columns.

Details


See Also

`pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other color palettes: `pal_bordeaux`, `pal_karpfenblau`, `pal_peach`, `pal_petrol`, `pal_pinky`, `pal_seeblau`, `pal_seegruen`, `pal_signal`, `pal_unikn_dark`, `pal_unikn_light`, `pal_unikn_pair`, `pal_unikn_ppt`, `pal_unikn_pref`, `pal_unikn_web`, `pal_unikn`

Examples

```r
pal_grau
dim(pal_grau)  # 1 5
pal_grau[3]    # preferred (named) color "grau3"
pal_grau[[3]]  # preferred color "grau3" OR "#9AA8A7"
```

# Plotting palette:
seecol(pal_grau)
pal_karpfenblau

uni.kn karpfenblau color palette.

Description

pal_karpfenblau provides an additional uni.kn color palette as a data frame containing 5 colors (shades of Karpfenblau or blue carp).

Usage

pal_karpfenblau

Format

An object of class data.frame with 1 rows and 5 columns.

Details


See Also

pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_seeblau for the default seeblau uni.kn color palette; pal_unikn_pref for a uni.kn color palette with all preferred colors; seecol to show and use color palettes.

Other color palettes: pal_bordeaux, pal_grau, pal_peach, pal_petrol, pal_pinky, pal_seeblau, pal_seegruen, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web, pal_unikn

Examples

pal_karpfenblau
dim(pal_karpfenblau) # 1 5
pal_karpfenblau[4] # preferred (named) color "karpfenblau4"
pal_karpfenblau[[4]] # preferred color "karpfenblau4" OR "#3E5496"

# Plotting palette:
seecol(pal_karpfenblau)
**Description**

`pal_peach` provides an additional uni.kn color palette as a data frame containing 5 colors (shades of Peach).

**Usage**

`pal_peach`

**Format**

An object of class `data.frame` with 1 rows and 5 columns.

**Details**


**See Also**

`pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_pinky` and `pal_bordeaux` for alternative redish uni.kn color palettes; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other color palettes: `pal_bordeaux`, `pal_grau`, `pal_karpfenblau`, `pal_petrol`, `pal_pinky`, `pal_seeblau`, `pal_seegruen`, `pal_signal`, `pal_unikn_dark`, `pal_unikn_light`, `pal_unikn_pair`, `pal_unikn_ppt`, `pal_unikn_pref`, `pal_unikn_web`, `pal_unikn`

**Examples**

```r
pal_peach
dim(pal_peach)  # 1 5
pal_peach[4]    # preferred (named) color "peach4"
pal_peach[4][]  # preferred color "peach4" OR "#FEA090"

# Plotting palette:
seecol(pal_peach)
```
Description

`pal_petrol` provides an additional uni.kn color palette as a data frame containing 5 colors (shades of *Petrol* or grue).

Usage

`pal_petrol`

Format

An object of class `data.frame` with 1 row and 5 columns.

Details


See Also

- `pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_seegruen` for an alternative green/grue uni.kn color palette; `pal_unikn(pref)` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other color palettes: `pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_pinky, pal_seeblau, pal_seegruen, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web, pal_unikn`

Examples

```r
pal_petrol
dim(pal_petrol)  # 1 5
pal_petrol[4]     # preferred (named) color "petrol4"
pal_petrol[[4]]   # preferred color "petrol4" OR "#077187"

# Plotting palette:
seecol(pal_petrol)
```
Description

`pal_pinky` provides an additional uni.kn color palette as a data frame containing 5 colors (shades of Pinky or pink).

Usage

`pal_pinky`

Format

An object of class `data.frame` with 1 rows and 5 columns.

Details


See Also

`pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_peach` and `pal_bordeaux` for alternative redish uni.kn color palettes; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other color palettes: `pal_bordeaux`, `pal_grau`, `pal_karpfenblau`, `pal_peach`, `pal_petrol`, `pal_seeblau`, `pal_seegruen`, `pal_signal`, `pal_unikn_dark`, `pal_unikn_light`, `pal_unikn_pair`, `pal_unikn_ppt`, `pal_unikn_pref`, `pal_unikn_web`, `pal_unikn`

Examples

```r
pal_pinky
dim(pal_pinky)  # 1 5
pal_pinky[4]  # preferred (named) color "pinky4"
pal_pinky[[4]]  # preferred color "pinky4" OR "#E0607E"

# Plotting palette:
seecol(pal_pinky)
```
**Description**

`pal_seeblau` provides an additional uni.kn color palette as a data frame containing 5 colors (shades of *Seeblau*).

**Usage**

`pal_seeblau`

**Format**

An object of class `data.frame` with 1 rows and 5 columns.

**Details**


**See Also**

`pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_karpfenblau` for an alternative blue uni.kn color palette; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other color palettes: `pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pink, pal_seegruen, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web, pal_unikn`

**Examples**

```r
pal_seeblau
dim(pal_seeblau) # 1 5

# Preferred color:
pal_seeblau[3] # preferred (named) color "seeblau3" (as df)
pal_seeblau[[3]] # preferred color value "#59C7EB"

# Access by position:
pal_seeblau[3] # named color "seeblau3" (as df)
pal_seeblau[[3]] # color value "#59C7EB"

# Access by name:
pal_unikn["seeblau3"] # color "seeblau3" (as df)
pal_unikn[["seeblau3"]]] # color value "#59C7EB"

# Plotting palette:
seecol(pal_seeblau)
```
Description

`pal_seegruen` provides an additional uni.kn color palette as a data frame containing 5 colors (shades of `Seegruen`).

Usage

`pal_seegruen`

Format

An object of class `data.frame` with 1 rows and 5 columns.

Details


See Also

`pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_petrol` for an alternative green uni.kn color palette; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other color palettes: `pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seeblau, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web, pal_unikn`

Examples

```r
pal_seegruen
dim(pal_seegruen)  # 1 5
pal_seegruen[4]     # preferred (named) color "seegruen4"
pal_seegruen[[4]]   # preferred color "seegruen4" OR "#0A9086"

# Plotting palette:
seecol(pal_seegruen)
```
pal_signal provides an additional uni.kn color palette as a data frame containing 3 colors (Ampel or traffic signal colors).

Usage

pal_signal

Format

An object of class data.frame with 1 rows and 3 columns.

Details

The colors are arranged as in a traffic light ("Ampel"):

1. top: red or "bad"
2. mid: yellow or "alert"
3. bot: green or "good"


See Also

pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_unikn_pref for a uni.kn color palette with all preferred colors; seecol to show and use color palettes.

Other color palettes: pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seeblau, pal_seegruen, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web, pal_unikn

Examples

dim(pal_signal)  # 1 3
pal_signal[2]    # (named) color "signal2"
pal_signal[[2]]  # color "signal2" OR "#EFDC60"

# Plotting palette:
seecol(pal_signal)
**Description**

`pal_unikn` combines the 5 blue colors from color palette `pal_seeblau` with the 6 non-blue colors of `pal_unikn` to a palette containing 11 color values.

**Usage**

`pal_unikn`

**Format**

An object of class `data.frame` with 1 rows and 11 columns.

**Details**

Adding `seeblau5` (i.e., `pal_seeblau[1]`) to the default color palette `pal_unikn` also puts white at the central (middle) position of a palette with 11 values:

- `pal_unikn[[6]]` is white or "#FFFFFF".
- This is useful when creating color gradients.


**See Also**

- `pal_unikn` for the default uni.kn color palette;
- `pal_seeblau` for the uni.kn seeblau color palette;
- `seecol` to show color palettes; `usecol` to use color palettes.

Other color palettes: `pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seeblau, pal_seegruen, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web`

**Examples**

```r
pal_unikn
dim(pal_unikn) # 1 11

# Access by position:
pal_unikn[1] # new color "seeblau5" (as df)
pal_unikn[[1]] # new color value "#008ECE"

# Access by name:
pal_unikn["seeblau5"] # new color "seeblau5" (as df)
pal_unikn[["seeblau5"]]] # new color value "#008ECE"

# Plotting palette:
```
pal_unikn_dark

Description

pal_unikn_dark provides an additional uni.kn color palette that collects 2 dark colors of 4 color palettes as a data frame containing 8 colors (in 4 pairs).

Usage

pal_unikn_dark

Format

An object of class data.frame with 1 rows and 10 columns.

Details


See Also

pal_unikn_light for a lighter uni.kn color palette; pal_unikn_pair for a pairwise uni.kn color palette; pal_unikn for the default uni.kn color palette; seecol to show color palettes; usecol to use color palettes.

Other color palettes: pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seebau, pal_seegruen, pal_signal, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn pref, pal_unikn web, pal_unikn

Examples

pal_unikn_dark
dim(pal_unikn_dark)  # 1 8
pal_unikn_dark[1]    # color "karpfenblau5" by position
pal_unikn_dark[[1]]  # color value by position: #324376
pal_unikn_dark["karpfenblau5"] # color value by name

# Plotting palette:
seecol(pal_unikn_dark)
Description

`pal_unikn_light` provides an additional uni.kn color palette that collects 2 light colors of 4 color palettes as a data frame containing 8 colors (in 4 pairs).

Usage

`pal_unikn_light`

Format

An object of class `data.frame` with 1 rows and 10 columns.

Details


See Also

- `pal_unikn_dark` for a darker uni.kn color palette; `pal_unikn_pair` for a pairwise uni.kn color palette; `pal_unikn` for the default uni.kn color palette; `seecol` to show color palettes; `usecol` to use color palettes.
- Other color palettes: `pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seebau, pal_seegrue, pal_signal, pal_unikn_dark, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn_web, pal_unikn`

Examples

```r
colnames(pal_unikn_light) # 1 8

dim(pal_unikn_light) # 1 8

# Access by position:
pal_unikn_light[1]  # color "seeblau3" (as df)
pal_unikn_light[[1]] # color value "#59C7EB"

# Access by name:
pal_unikn_light["seeblau3"]  # color "seeblau3" (as df)
pal_unikn_light[["seeblau3"]]] # color value "#59C7EB"

# Plotting palette:
seecol(pal_unikn_light)
```
Description

`pal_unikn_pair` provides an additional uni.kn color palette that collects 16 paired colors of 8 color palettes as a data frame containing 16 colors (in 8 pairs).

Usage

`pal_unikn_pair`

Format

An object of class `data.frame` with 1 rows and 16 columns.

Details


See Also

- `pal_unikn_light` for a lighter uni.kn color palette;
- `pal_unikn_dark` for a darker uni.kn color palette;
- `pal_unikn` for the default uni.kn color palette;
- `seecol` to show color palettes;
- `usecol` to use color palettes.

Other color palettes: `pal_bordeaux`, `pal_grau`, `pal_karpfenblau`, `pal_peach`, `pal_petrol`, `pal_pinky`, `pal_seeblau`, `pal_seegruen`, `pal_signal`, `pal_unikn_dark`, `pal_unikn_light`, `pal_unikn_ppt`, `pal_unikn_pref`, `pal_unikn_web`, `pal_unikn`.

Examples

```r
pal_unikn_pair
dim(pal_unikn_pair) # 1 16
pal_unikn_pair[1] # color "karpfenblau4" by position
pal_unikn_pair[[1]] # color value by position: #3E5496
pal_unikn_pair["karpfenblau4"] # color value by name

# Plotting palette:
seecol(pal_unikn_pair)
```
Description

pal_unikn_ppt provides an alternative uni.kn color palette as a data frame containing 10 colors.

Usage

pal_unikn_ppt

Format

An object of class data.frame with 1 rows and 10 columns.

Details

This is a secondary (ppt) variant with more muted colors.


See Also

pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_unikn_pref for a uni.kn color palette with all preferred colors; seecol to show color palettes; usecol to use color palettes.

Other color palettes: pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seeblau, pal_seegruen, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_pref, pal_unikn_web, pal_unikn

Examples

```r
pal_unikn_ppt
dim(pal_unikn_ppt) # 1 10

# Access by position:
pal_unikn_ppt[2] # 2nd named color "seeblau3" (as df)
pal_unikn_ppt[[2]] # 2nd color value "#59B6DC"

# Access by name:
pal_unikn_ppt["seeblau3"] # color "seeblau3" (as df)
pal_unikn_ppt[["seeblau3"]]] # color value "#59B6DC"

# Plotting palette:
seecol(pal_unikn_ppt)
```
**Description**

`pal_unikn_pref` provides an additional uni.kn color palette that collects the preferred color of each palette as a data frame containing 9 (or 8 + 1) colors.

**Usage**

```r
pal_unikn_pref
```

**Format**

An object of class `data.frame` with 1 row and 9 columns.

**Details**

Note that the (alert) color `Signal` is not a preferred color according to the official color definition.


**See Also**

- `pal_unikn` for the default uni.kn color palette; `seecol` to show color palettes; `usecol` to use color palettes.
- Other color palettes: `pal_bordeaux`, `pal_grau`, `pal_karpfenblau`, `pal_peach`, `pal_petrol`, `pal_pinky`, `pal_seeblau`, `pal_seegruen`, `pal_signal`, `pal_unikn_dark`, `pal_unikn_light`, `pal_unikn_pair`, `pal_unikn_ppt`, `pal_unikn_web`, `pal_unikn`

**Examples**

```r
pal_unikn_pref
dim(pal_unikn_pref) # 1 9

# Access by position:
pal_unikn_pref[1] # color Seeblau (as df)
pal_unikn_pref[[1]] # color value "#59C7EB"

# Access by name:
pal_unikn_pref["Seeblau"] # color "seeblau3" (as df)
pal_unikn_pref[["Seeblau"]]] # color value "#59C7EB"

# Plotting palette:
seecol(pal_unikn_pref)
```
Description

pal_unikn_web provides the default uni.kn color palette as a data frame containing 10 colors.

Usage

pal_unikn_web

Format

An object of class data.frame with 1 rows and 10 columns.

Details

This is the primary (web/sRGB) scale.


See Also

pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_unikn_ppt for an alternative (ppt) version; pal_unikn_pref for a uni.kn color palette with all preferred colors; seecol to show color palettes; usecol to use color palettes.

Other color palettes: pal_bordeaux, pal_grau, pal_karpfenblau, pal_peach, pal_petrol, pal_pinky, pal_seeblau, pal_seegruen, pal_signal, pal_unikn_dark, pal_unikn_light, pal_unikn_pair, pal_unikn_ppt, pal_unikn_pref, pal_unikn

Examples

pal_unikn_web
dim(pal_unikn_web) # 1 10

# Access by position:
pal_unikn_web[2] # 2nd named color "seeblau3" (as df)
pal_unikn_web[[2]] # 2nd color value "#59C7EB"

# Access by name:
pal_unikn_web["seeblau3"] # color "seeblau3" (as df)
pal_unikn_web[["seeblau3"]]] # color value "#59C7EB"

# Plotting palette:
seecol(pal_unikn_web)
Peach  
*uni.kn color Peach.*

**Description**  
Peach provides the preferred color of `pal_peach` (as an atomic HEX character value) and is defined as `pal_peach[[4]]`.

**Usage**  
Peach

**Format**  
An object of class character of length 1.

**Details**  

**See Also**  
`pal_peach` for the corresponding color palette; `pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show and use color palettes.
Other preferred colors: *Bordeaux, Grau, Karpfenblau, Petrol, Pinky, Seeblau, Seegruen, Signal*

**Examples**  
```
Peach  # HEX character "#FEA090" (as value)
all.equal(Peach, pal_peach[[4]])  # TRUE (same HEX values)

seecol(Peach)  # view color and details
```

Petrol  
*uni.kn color Petrol.*

**Description**  
Petrol provides the preferred color of `pal_petrol` (as an atomic HEX character value) and is defined as `pal_petrol[[4]]`.

**Usage**  
Petrol
Pinky

Format

An object of class character of length 1.

Details


See Also

pal_petrol for the corresponding color palette; pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_unikn_pref for a unikn color palette with all preferred colors; seecol to show color palettes; usecol to use color palettes.

Other preferred colors: Bordeaux, Grau, Karpfenblau, Peach, Pinky, Seeblau, Seegruen, Signal

Examples

Petrol # HEX character "#077187" (as value)
all.equal(Petrol, pal_petrol[4]) # TRUE (same HEX values)

seecol(Petrol) # view color and details

---

Pinky  

uni.kn color Pinky.

Description

Pinky provides the preferred color of pal_pinky (as an atomic HEX character value) and is defined as pal_pinky[[4]].

Usage

Pinky

Format

An object of class character of length 1.

Details

See Also

`pal_pinky` for the corresponding color palette; `pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`: `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other preferred colors: Bordeaux, Grau, Karpfenblau, Peach, Petrol, Seeblau, See gruen, Signal

Examples

Pinky # HEX character "#E0607E" (as value)

all.equal(Pinky, pal_pinky[[4]]) # TRUE (same HEX values)

seecol(Pinky) # view color and details

Description

post plots 1 or more text strings (provided as a character vector `labels`) to an (existing or new) `xbox`.

Usage

```r
post(labels, x = 0.03, y = 0.55, y_layout = "even", col = "white",
     col_bg = Seeblau, cex = 1, font = 1, new_plot = "none")
```

Arguments

- `labels`: A character vector specifying the text labels to be plotted.
- `x`: A numeric vector of x-coordinates at which the text labels in `labels` should be written. If the lengths of `x` and `y` differ, the shorter one is recycled. Default: `x = 0.03`.
- `y`: A numeric vector of y-coordinates at which the text labels in `labels` should be written. If the lengths of `x` and `y` differ, the shorter one is recycled. Default: `y = 0.55`.
- `y_layout`: A numeric value or vector for the vertical spacing of labels in `labels`. 2 special values are "even" (i.e., even distribution of labels across available y-space) and "flush" (i.e., no space between adjacent labels, or `y_layout = 0`). Default: `y_layout = "even"`
- `col`: The color(s) of the text label(s). Default: `col_lbl = "white"`
- `col_bg`: The background color(s) of the `xbox`. Default: `col_bg = Seeblau`
- `cex`: Numeric character expansion factor(s), multiplied by `par("cex")` to yield the character size(s). Default: `cex = 1.0`.
- `font`: The font type(s) to be used. Default: `font = 1` (i.e., plain text).
new_plot Should a new plot be generated? Set to "xbox" to plot to a basic xbox (with square dimensions, i.e., dim = c(1,1)). Default: new_plot = "none" (i.e., assumes a pre-existing xbox).

Details

The positions of the text elements in labels can be specified by providing their coordinates (as x and y arguments) or by providing an initial position and an y_layout (see below).

Text formatting parameters (like col, col_bg, cex, font) are recycled to match length(labels).

post uses the base graphics system graphics::.

See Also

xbox to create a new xbox (without text).

Other text functions: mark, uline, url_unikn

Examples

post(labels = "Post this line with default settings.", new_plot = "xbox")

# Create a new xbox:
post(labels = "This is a test.", new_plot = "xbox",
       cex = 1.2, font = 2, col_bg = pal_seeblau[[5]])

# Add text to an existing xbox:
post(labels = c("More text follows here.",
                "yet another line here.",
                "and even more here.")
       y = .4, y_layout = .04,
       new_plot = "none"
       )

Seeblau

uni.kn color Seeblau.

Description

Seeblau provides the preferred color of pal_seeblau (as an atomic HEX character value) and is defined as pal_seeblau[[3]].

Usage

Seeblau

Format

An object of class character of length 1.
Details


See Also

pal_seeblau for the corresponding color palette; pal_unikn for the unikn default color palette with all 5 colors of pal_seeblau; pal_unikn_pref for a unikn color palette with all preferred colors; seecol to show color palettes; usecol to use color palettes.

Other preferred colors: Bordeaux, Grau, Karpfenblau, Peach, Petrol, Pinky, Seegruen, Signal

Examples

Seeblau # HEX character "#59C7EB" (as value)
all.equal(Seeblau, pal_seeblau[[3]]) # TRUE (same HEX values)

seecol(Seeblau) # view color and details

seecol

Plot color palettes (to see their colors).

Description

seecol provides an interface to plotting (or "seeing") the colors of a palette or comparing multiple color palettes.

Usage

seecol(pal = "unikn_all", n = "all", alpha = NA, hex = NULL, rgb = NULL, col_bg = NULL, col_brd = NULL, lwd_brd = NULL, grid = TRUE, title = NA, ...)

Arguments

pal A color palette (as a vector of colors), a character string recognized as keyword by seecol or multiple palettes specified as list. Default: pal = "unikn_all". Recognized keywords are:
1. "unikn_all": All color palettes defined in unikn
2. "unikn_basic": All basic palettes.
3. "pair_all": All palettes with pairwise colors.
4. "pref_all": All preferred colors and their gradients.
5. "grad_all": seecol does also recognize reverse keywords (e.g., "all_unikn") or keywords without "unikn" (e.g., "basic").
Number of colors to show or use. If n is lower or higher than the length of the current color palette `pal`, the color palette is reduced or extrapolated (using `grDevices::colorRampPalette`). Default: \( n = "all" \) (i.e., show all colors in palette).

A factor modifying the opacity alpha (as in `adjustcolor`); typically in \([0,1]\). If used, the value is shown in the plot title. Default: `alpha = NA` (i.e., no modification of opacity).

Should HEX color values be shown? Default: `hex = NULL` (i.e., show HEX color values when there is sufficient space to print them).

Should RGB color values be shown? Default: `rgb = NULL` (i.e., show RGB color values when there is sufficient space to print them).


Color of shape borders (if shown). Default: `col_br = NULL`.

Line width of shape borders (if shown). Default: `lwd_br = NULL`.

Show grid in the color plot? Default: `grid = TRUE`.

Plot title? Default: `title = NA` creates a default title.

Other graphical parameters (passed to `plot`).

**Details**

`seecol` has 2 main modes, based on the contents of its `pal` argument:

1. if `pal = "unikn_all"` (or a list of multiple color palettes):
   - Plot visual vectors of all current color palettes for comparing them.
2. if `pal` is set to a specific color palette (or a vector of multiple colors or color palettes):
   - Plot the current color palette and optional details on its colors.

**See Also**

`usecol` to use a color palette; `pal_unikn` for the default uni.kn color palette.

Other color functions: `newpal, usecol`

**Examples**

```r
# See all color palettes:
seecol()  # same as seecol(pal = "all")

# See details of a color palette:
seecol(pal_unikn)  # see a specific color palette

# Combining colors or color palettes:
seecol(c(rev(pal_seebland), pal_seegruen))  # combine color palettes
seecol(c(rev(pal_seebland), "white", pal_pinky))  # combine color palettes and color names
seecol(c("black", "firebrick", "gold"))  # combine color names

# Using n to reduce or extend color palettes:
seecol(n = 3)  # viewing reduced ranges of all palettes
```
Seegruen

Seegruen(n = 12)  # viewing extended ranges of all palettes

seecol(pal_unikn, n = 5,
       title = "Reduced version of pal_unikn (n = 5)")  # reducing pal_unikn
seecol(pal_seeblau, n = 8,
       title = "Extended version of pal_seeblau (n = 8)")  # extending pal_seeblau

# Combining and extending color palettes:
seecol(c(rev(pal_seeblau), "white", pal_bordeaux), n = 17,
       title = "Diverging custom color palette with 17 colors")

# Defining custom color palettes:
pal_mpg <- c("#007367", "white", "#D0D3D4")
names(pal_mpg) <- c("mpg green", "mpg white", "mpg grey")

# Viewing extended color palette:
seecol(pal_mpg, n = 9, title = "Custom color palette for Max Planck Society")

# Comparing color palettes:
seecol(list(pal_mpg, pal_bordeaux, pal_unikn), n = 5)

## Viewing color palettes from other packages:
# library(RColorBrewer)
# seecol(brewer.pal(name = "RdBu", n = 11))  # viewing "RdBu" palette from RColorBrewer

## Extending color palettes:
# seecol(brewer.pal(name = "RdBu", n = 11), n = 15)  # extending palette to 15 colors

---

Seegruen  

*uni.kn color Seegruen.*

### Description

Seegruen provides the preferred color of `pal_seegruen` (as an atomic HEX character value) and is defined as `pal_seegruen[[4]]`.

### Usage

Seegruen

### Format

An object of class character of length 1.

### Details

See Also

`pal_seegruen` for the corresponding color palette; `pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other preferred colors: `Bordeaux`, `Grau`, `Karpfenblau`, `Peach`, `Petrol`, `Pinky`, `Seeblau`, `Signal`

Examples

Seegruen  # HEX character "#0A9086" (as value)
all.equal(Seegruen, pal_seegruen[4])  # TRUE (same HEX values)

seecol(Seegruen)  # view color and details

---

**Signal**

*uni.kn color Signal or alert.*

Description

Signal provides the alert color of `pal_signal` (as an atomic HEX character value) and is defined as `pal_signal[2].`

Usage

Signal

Format

An object of class character of length 1.

Details

The official specification of `pal_signal` does not identify a preferred color. We provide Signal as a dedicated color as it is suited for creating color gradients (see `usecol`).


See Also

`pal_signal` for the corresponding color palette; `pal_unikn` for the unikn default color palette with all 5 colors of `pal_seeblau`; `pal_unikn_pref` for a uni.kn color palette with all preferred colors; `seecol` to show color palettes; `usecol` to use color palettes.

Other preferred colors: `Bordeaux`, `Grau`, `Karpfenblau`, `Peach`, `Petrol`, `Pinky`, `Seeblau`, `Seegruen`
Examples

```
Signal  # HEX character "#EFDC60" (as value)
all.equal(Signal, pal_signal[[2]])  # TRUE (same HEX values)

seecol(Signal)  # view color and details
```

**slide**

Plot a slide (or frame).

**Description**

slide plots an empty slide (or frame) as a colored rectangle.

**Usage**

```
slide(col = NA, dim = c(4/3, 1), border = grey(0.33, 1), lwd = 1.5)
```

**Arguments**

- `col`: The color to fill the slide with (i.e., its background color). Default: `col = NA` (i.e., system default for transparency).
- `dim`: The x- and y-dimensions of the slide. Default: `dim = c(4/3, 1)` (i.e., unit height, 4/3 wider than high).
- `border`: The color of the slide’s border. Setting `border = NA` hides border. Default: `border = grey(.33, 1)`.
- `lwd`: The line width of the slide’s border. Setting `lwd = 0` or `lwd = NA` removes border. Default: `lwd = 1.5`.

**See Also**

`heading`, `line`, or `mark` to add text to a slide; `xbox` to plot a box.

Other plot functions: `theme_unikn`, `xbox`

**Examples**

```
slide()  # default slide (or frame)
slide(lwd = NA)  # borderless slide

# Dimensions:
slide(dim = c(18, 9))  # larger and 2:1 dimensions

# Formatting:
slide(col = pal_seeblau[[1]], border = pal_seeblau[[5]], lwd = 2)
```
theme_unikn

Basic unikn theme for ggplot2.

Description
theme_unikn provides a basic unikn theme to use in ggplot2 commands.

Usage

```r
theme_unikn(col_title = unikn::pal_seeblau[[4]], base_size = 11,
             base_family = "", base_line_size = base_size/20,
             base_rect_size = base_size/20)
```

Arguments

- `base_family`  Base font family (optional, character). Default: `base_family = ""`.

Details
The theme is lightweight and no-nonsense, but somewhat opinionated (e.g., in using mostly grey scales to allow emphasizing data points with color accents).

See Also
Other plot functions: `slide`, `xbox`

Examples

```r
# Plotting iris dataset (using ggplot2, theme_unikn, and unikn colors):

library("ggplot2")  # theme_unikn requires loading ggplot2

ggplot(datasets::iris) +
  geom_jitter(aes(x = Petal.Length, y = Petal.Width, color = Species), size = 3, alpha = 1/2) +
  scale_color_manual(values = usecol(pal = c(Seeblau, Peach, Seegruen))) +
  labs(title = "Iris species",
       caption = "Data from datasets::iris") +
  theme_unikn(col_title = "black", base_size = 11)
```
**uline**

*Plot underlined text elements.*

**Description**

uline plots 1 or more text strings (provided as a character vector `labels`) to an (existing or new) plot and places a colored line underneath each label (to underline it).

**Usage**

```
uline(labels, x = 0, y = 0.55, y_layout = "even", col = "black",
    col_bg = Seeblau, cex = 1.5, font = 1, new_plot = "none")
```

**Arguments**

- `labels`: A character vector specifying the text labels to be plotted.
- `x`: A numeric vector of x-coordinates at which the text labels in `labels` should be written. If the lengths of `x` and `y` differ, the shorter one is recycled. Default: `x = 0`.
- `y`: A numeric vector of y-coordinates at which the text labels in `labels` should be written. If the lengths of `x` and `y` differ, the shorter one is recycled. Default: `y = 0.55`.
- `y_layout`: A numeric value or vector for the vertical spacing of labels in `labels`. 2 special values are "even" (i.e., even distribution of labels across available y-space) and "flush" (i.e., no space between adjacent labels, or `y_layout = 0`). Default: `y_layout = "even"`.
- `col`: The color(s) of the text label(s). Default: `col lbl = "black"`.
- `col_bg`: The color(s) of the line (under the text labels of `labels`). Default: `col bg = Seeblau`.
- `cex`: Numeric character expansion factor(s), multiplied by `par("cex")` to yield the character size(s). Default: `cex = 1.5`.
- `font`: The font type(s) to be used. Default: `font = 1` (i.e., plain text).
- `new_plot`: Boolean: Should a new plot be generated? Set to "blank" or "slide" to create a new plot. Default: `new_plot = "none"` (i.e., add to an existing plot).

**Details**

The positions of the text elements in `labels` can be specified by providing their coordinates (as `x` and `y` arguments) or by providing an initial position and an `y_layout` (see below).

Text formatting parameters (like `col`, `col_bg`, `cex`, `font`) are recycled to match `length(labels)`.

uline uses the base graphics system `graphics::`. 
See Also

slide and xbox to create simple plots (without text).
Other text functions: mark, post, url_unikn

Examples

uline(labels = "This is a test.", new_plot = "blank")  # create a new blank plot
uline(labels = "More testing here...", y = .33, col_bg = pal_pinky[[2]])  # add to plot

# 2 basic cases:
# (a) Underline text on an existing plot:
plot(x = 0, y = 0, type = "n", xlim = c(0, 1), ylim = c(0, 1), xlab = "", ylab = "")
uline(x = 0, y = .8, labels = "Underline text (on an existing plot)")  # add to plot

# (b) Underline text on a new plot:
uline(x = .02, y = .80, labels = "Underline text (on a new plot)",
      new_plot = "slide")  # create a new plot

# Example:
lbl_line <- c("This is neat, true, and terribly important.")
uline(labels = lbl_line, new_plot = "blank")  # create a new plot
uline(labels = "(which is why we underline it).", y = .40, cex = 1.2)  # add to plot

---

unikn.guide  

**Opens the unikn package guides**

**Description**

Opens the unikn package guides

**Usage**

unikn.guide()

---

url_unikn  

**url_unikn formats an URL the uni.kn way.**

**Description**

url_unikn removes various patterns (e.g., "http", "https", "://", "www.") from the front of a given URL and returns the remaining character string with a figure dash prefix.

**Usage**

url_unikn(url = "https://www.uni-konstanz.de/")
Arguments

url The url to be written (as copied from a web browser).

See Also

xbox to create a new xbox (without text).

Other text functions: mark, post, uline

Examples

url_unikn("https://www.uni-konstanz.de/")

Description

usecol allows using a color palette pal (e.g., for plotting).

Usage

usecol(pal = pal_unikn, n = "all", alpha = NA, use_names = FALSE, use_col_ramp = FALSE)

Arguments

pal A color palette (as a vector of colors or color palettes). Default: pal = pal_unikn.

n An integer value specifying the desired number of colors from the palette. For all palettes defined within unikn by default it uses a pre-defined selection of colors if the desired number of colors is smaller than the available number. For all other palettes and n larger than length(pal) it extends the palette using colorRampPalette.

alpha A factor modifying the opacity alpha (as in adjustcolor); typically in [0,1]. Default: NA (i.e., no modification of opacity).

use_names A logical value indicating whether colors should be returned as a named vector. (Defaults to FALSE for compatibility with ggplot).

use_col_ramp A logical value specifying whether the default of using pre-selected colors should be overridden and colorRampPalette should be used to process n.

See Also

seeccol to plot color palettes; pal_unikn for the default uni.kn color palette.

Other color functions: newpal, seeccol
Examples

usecol(pal = pal_unikn, n = "all")  # default color palette
usecol(pal = pal_unikn, n = 4)     # selecting n dedicated colors
usecol(pal = pal_unikn, n = 20)    # extending color palette

# Mixing a new color palette:
pal_1 <- usecol(pal = c(rev(pal_seeblau), "white", pal_pinky))
seecol(pal_1)

# Mixing and extending a color palette:
pal_2 <- usecol(pal = c(rev(pal_seegruen), "white", pal_bordeaux), n = 20)
seecol(pal_2)

# Defining and using a custom color palette:
pal_princeton_1 <- c("#E77500", "white", "black")
names(pal_princeton_1) <- c("orange_w", "white", "black")
pal_3 <- usecol(pal_princeton_1, n = 7)
seecol(pal_3)

---

xbox

Plot a box (with x).

description

xbox plots a box with a cross (x) in its top-right corner.

Usage

xbox(col = Seeblau, dim = c(1, 1))

Arguments

col     The color to fill the box with (i.e., its background color). Default: col = unlist(seeblau).
dim     The x- and y-dimensions of the box. Default: dim = c(1,1) (i.e., a unit square).

details

The cross (x) appears rectangular when viewing the plot at the correct aspect ratio (as defined by dim).

See Also

post to add text to an xbox; slide to plot a new slide (or frame).

Other plot functions: slide, theme_unikn
Examples

xbox()  # default box

# Options:
xbox(col = Bordeaux)
xbox(dim = c(2, 1))  # 2:1 dimension (wider than high)
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