Package 'snazzieR'

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Type Package

Title Chic and Sleek Functions for Beautiful Statisticians

Version 0.1.0

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Description Because your linear models deserve better than console output.
A sleek color palette and kable styling to make your regression results look sharper than they are.
See the package manual at <https://github.com/JesusButForGayPeople/snazzieR/releases/download/v0.1.0/snazzieR_0.1.0.pdf>.

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Encoding UTF-8

LazyData true

Imports ggplot2, knitr, kableExtra, stats

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NeedsCompilation no

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Contents

`ANOVA.summary.table` *Generate a Summary Table for ANOVA Results*

Description

This function creates a summary table for ANOVA results, including degrees of freedom, sum of squares, mean squares, F-values, and p-values. The table is formatted for LaTeX output using the 'kableExtra' package.

Usage

```
ANOVA.summary.table(model, caption)
```

Arguments

`model`	A model object for which ANOVA results are computed (e.g., output from ‘lm()‘ or ‘aov()‘).
`caption`	A character string to be used as the caption for the table.

Value

A LaTeX-formatted table generated by ‘kableExtra::kable()‘.

Examples

```
# Fit a linear model
model <- lm(mpg ~ wt + hp, data = mtcars)

# Generate the ANOVA summary table
ANOVA.summary.table(model, caption = "ANOVA Summary")
```

`Blue` *Blue color*

Description

This is a blue color with the hex code #008C9E.

Usage

```
Blue
```

Format

An object of class `character` of length 1.

Details

color.list *List of all colors*

Description

List of all colors

Usage

```
color.list
```

Format

An object of class `list` of length 35.

color.ref *Display a Color Reference Palette*

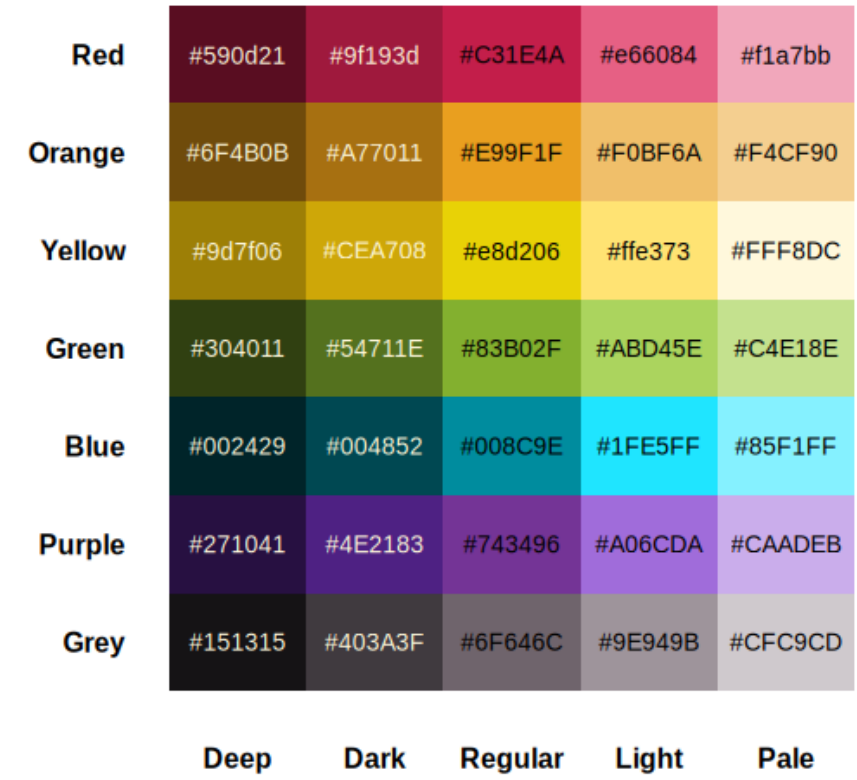
Description

This function generates a plot displaying a predefined color palette with color codes for easy reference. The palette includes shades of Red, Orange, Yellow, Green, Blue, Purple, and Grey.

Usage

```
color.ref()
```

Details



Value

A plot displaying the color palette.

Examples

```
color.ref()
```

`Dark.Blue` *Dark Blue color*

Description

This is a dark blue color with the hex code #004852.

Usage

```
Dark.Blue
```

Format

An object of class `character` of length 1.

Details

`Dark.Green` *Dark Green color*

Description

This is a dark green color with the hex code #54711E.

Usage

```
Dark.Green
```

Format

An object of class `character` of length 1.

Details

`Dark.Grey` *Dark Grey color*

Description

This is a dark grey color with the hex code #403A3F.

Usage

```
Dark.Grey
```

Format

An object of class `character` of length 1.

Details

`Dark.Orange` *Dark Orange color*

Description

This is a dark orange color with the hex code #A77011.

Usage

```
Dark.Orange
```

Format

An object of class `character` of length 1.

Details

`Dark.Purple` *Dark Purple color*

Description

This is a dark purple color with the hex code #4E2183.

Usage

```
Dark.Purple
```

Format

An object of class `character` of length 1.

Details

`Dark.Red` *Dark Red color*

Description

This is a dark red color with the hex code #9F193D.

Usage

```
Dark.Red
```

Format

An object of class `character` of length 1.

Details

`Dark.Yellow` *Dark Yellow color*

Description

This is a dark yellow color with the hex code #CEA708.

Usage

```
Dark.Yellow
```

Format

An object of class `character` of length 1.

Details

Deep.Blue *Deep Blue color*

Description

This is a deep blue color with the hex code #002429.

Usage

```
Deep.Blue
```

Format

An object of class `character` of length 1.

Details

Deep.Green *Deep Green color*

Description

This is a deep green color with the hex code #304011.

Usage

```
Deep.Green
```

Format

An object of class `character` of length 1.

Details

Deep.Grey *Deep Grey color*

Description

This is a deep grey color with the hex code #151315.

Usage

```
Deep.Grey
```

Format

An object of class `character` of length 1.

Details

Deep.Orange *Deep Orange color*

Description

This is a deep orange color with the hex code #6F4B0B.

Usage

```
Deep.Orange
```

Format

An object of class `character` of length 1.

Details

Deep.Purple *Deep Purple color*

Description

This is a deep purple color with the hex code #271041.

Usage

```
Deep.Purple
```

Format

An object of class `character` of length 1.

Details

Deep.Red *Deep Red color*

Description

This is a deep red color with the hex code #590D21.

Usage

```
Deep.Red
```

Format

An object of class `character` of length 1.

Details

Deep.Yellow *Deep Yellow color*

Description

This is a deep yellow color with the hex code #9D7F06.

Usage

```
Deep.Yellow
```

Format

An object of class `character` of length 1.

Details

eigen.summary *Summarize Eigenvalues and Eigenvectors of a Covariance Matrix*

Description

This function computes the eigenvalues and eigenvectors of a given covariance matrix, ensures sign consistency in the eigenvectors, and outputs a formatted LaTeX table displaying the results.

Usage

```
eigen.summary(
  cov.matrix,
  caption = "Eigenvectors of Covariance Matrix",
  space_after_caption = "5mm"
)
```

Arguments

`cov.matrix`	A square numeric matrix representing the covariance matrix.
`caption`	A character string specifying the table caption (default: "Eigenvectors of Covariance Matrix").
`space_after_caption`	A character string specifying the space after the caption in LaTeX (default: "5mm").

Value

A LaTeX formatted table displaying the eigenvectors and eigenvalues.

Examples

```
cov_matrix <- matrix(c(4, 2, 2, 3), nrow = 2)
eigen.summary(cov_matrix)
```

Green *Green color*

Description

This is a green color with the hex code #83B02F.

Usage

```
Green
```

Format

An object of class `character` of length 1.

Details

Grey *Grey color*

Description

This is a grey color with the hex code #6F646C.

Usage

```
Grey
```

Format

An object of class `character` of length 1.

Details

Light.Blue *Light Blue color*

Description

This is a light blue color with the hex code #1FE5FF.

Usage

```
Light.Blue
```

Format

An object of class `character` of length 1.

Details

Light.Green *Light Green color*

Description

This is a light green color with the hex code #ABD45E.

Usage

```
Light.Green
```

Format

An object of class `character` of length 1.

Details

Light.Grey *Light Grey color*

Description

This is a light grey color with the hex code #9E949B.

Usage

```
Light.Grey
```

Format

An object of class `character` of length 1.

Details

Light.Orange *Light Orange color*

Description

This is a light orange color with the hex code #F0BF6A.

Usage

```
Light.Orange
```

Format

An object of class `character` of length 1.

Details

Light.Purple *Light Purple color*

Description

This is a light purple color with the hex code #A06CDA.

Usage

```
Light.Purple
```

Format

An object of class `character` of length 1.

Details

Light.Red *Light Red color*

Description

This is a light red color with the hex code #E66084.

Usage

```
Light.Red
```

Format

An object of class `character` of length 1.

Details

Light.Yellow *Light Yellow color*

Description

This is a light yellow color with the hex code #FFE373.

Usage

```
Light.Yellow
```

Format

An object of class `character` of length 1.

Details

model.equation *Generate a Model Equation from a Linear Model*

Description

This function extracts and formats the equation from a linear model object. It includes an option to return the equation as a LaTeX-formatted string or print it to the console.

Usage

```
model.equation(model, latex = TRUE)
```

Arguments

`model`	A linear model object (e.g., output from ‘lm()‘).
`latex`	A logical value indicating whether to return a LaTeX-formatted equation (default: TRUE). If FALSE, the equation is printed to the console.

Value

If ‘latex‘ is TRUE, the equation is returned as LaTeX code using ‘knitr::asis_output()‘. If FALSE, the equation is printed to the console.

Examples

```
# Fit a linear model
model <- lm(mpg ~ wt + hp, data = mtcars)

# Get LaTeX equation
model.equation(model)

# Print equation to console
print(model.equation(model, latex = FALSE))
```

`model.summary.table` *Generate a Summary Table for a Linear Model*

Description

This function creates a summary table for a linear model, including coefficients, standard errors, p-values, and model statistics (e.g., MSE, R-squared). The table is formatted for LaTeX output using the ‘kableExtra‘ package.

Usage

```
model.summary.table(model, caption)
```

Arguments

`model`	A linear model object (e.g., output from ‘lm()‘).
`caption`	A character string to be used as the caption for the table.

Value

A LaTeX-formatted table generated by ‘kableExtra::kable()‘.

Examples

```
# Fit a linear model
model <- lm(mpg ~ wt + hp, data = mtcars)

# Generate the summary table
model.summary.table(model, caption = "Linear Model Summary")
```

`Orange` *Orange color*

Description

This is an orange color with the hex code #E99F1F.

Usage

```
Orange
```

Format

An object of class `character` of length 1.

Details

`Pale.Blue` *Pale Blue color*

Description

This is a pale blue color with the hex code #85F1FF.

Usage

```
Pale.Blue
```

Format

An object of class `character` of length 1.

Details

`Pale.Green` *Pale Green color*

Description

This is a pale green color with the hex code #C4E18E.

Usage

```
Pale.Green
```

Format

An object of class `character` of length 1.

Details

`Pale.Grey` *Pale Grey color*

Description

This is a pale grey color with the hex code #CFC9CD.

Usage

```
Pale.Grey
```

Format

An object of class `character` of length 1.

Details

Pale.Orange *Pale Orange color*

Description

This is a pale orange color with the hex code #F4CF90.

Usage

```
Pale.Orange
```

Format

An object of class `character` of length 1.

Details

Pale.Purple *Pale Purple color*

Description

This is a pale purple color with the hex code #CAADEB.

Usage

```
Pale.Purple
```

Format

An object of class `character` of length 1.

Details

Pale.Red *Pale Red color*

Description

This is a pale red color with the hex code #F1A7BB.

Usage

```
Pale.Red
```

Format

An object of class `character` of length 1.

Details

Pale.Yellow *Pale Yellow color*

Description

This is a pale yellow color with the hex code #FFF8DC.

Usage

```
Pale.Yellow
```

Format

An object of class `character` of length 1.

Details

`Purple` *Purple color*

Description

This is a purple color with the hex code #743496.

Usage

```
Purple
```

Format

An object of class `character` of length 1.

Details

`Red` *Red color*

Description

This is a red color with the hex code #C31E4A.

Usage

```
Red
```

Format

An object of class `character` of length 1.

Details

snazzieR.theme *A Custom ggplot2 Theme for Publication-Ready Plots*

Description

This theme provides a clean, polished look for ggplot2 plots, with a focus on readability and aesthetics. It includes a custom color palette and formatting for titles, axes, and legends.

Usage

```
snazzieR.theme()
```

Value

A ggplot2 theme object.

Examples

```
library(ggplot2)
ggplot(mtcars, aes(x = wt, y = mpg)) +
  geom_point() +
  snazzieR.theme()
```

Yellow *Yellow color*

Description

This is a yellow color with the hex code #E8D206.

Usage

```
Yellow
```

Format

An object of class `character` of length 1.

Details

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