Package: sanzo (via r-universe)

October 18, 2024

Title Color Palettes Based on the Works of Sanzo Wada

Version 0.1.0

Description Inspired by the art and color research of Sanzo Wada (1883-1967), his ``Dictionary Of Color Combinations" (2011, ISBN:978-4861522475), and the interactive site by Dain M. Blodorn Kim <https://github.com/dblodorn/sanzo-wada>, this package brings Wada's color combinations to R for easy use in data visualizations. This package honors 60 of Wada's color combinations: 20 duos, 20 trios, and 20 quads.

License GPL-3

Encoding UTF-8

LazyData true

URL https://github.com/jmaasch/sanzo

BugReports https://github.com/jmaasch/sanzo/issues

RoxygenNote 7.0.2

Suggests datasets, graphics, stats, knitr, rmarkdown

VignetteBuilder knitr

Repository https://jmaasch.r-universe.dev

RemoteUrl https://github.com/jmaasch/sanzo

RemoteRef HEAD

RemoteSha 0423e1b55b83cf526fb7d3ac9315e83c7066c299

Contents

---

duos *List of duos*

Description

List containing all 20 duo palettes, defined by hexadecimal values.

Usage

```
duos
```

Format

An object of class `list` of length 20.

---

quads *List of quads*

Description

List containing all 20 quad palettes, defined by hexadecimal values.

Usage

```
quads
```

Format

An object of class `list` of length 20.

sanzo.demo.all *Print demo plots for all palettes*

Description

Print demo base R plots for all 60 sanzo palettes to illustrate their use and display hexadecimal values.

Usage

```
sanzo.demo.all()
```

Examples

```
sanzo.demo.all()
```

sanzo.demo2 *Print demo plots for all duo palettes*

Description

Print demo base R plots for all 20 duo palettes to illustrate their use and display hexadecimal values.

Usage

```
sanzo.demo2()
```

Examples

```
sanzo.demo2()
```

sanzo.demo3 *Print demo plots for all trio palettes*

Description

Print demo base R plots for all 20 trio palettes to illustrate their use and display hexadecimal values.

Usage

```
sanzo.demo3()
```

Examples

```
sanzo.demo3()
```

sanzo.demo4 *Print demo plots for all quad palettes*

Description

Print demo base R plots for all 20 quad palettes to illustrate their use and display hexadecimal values.

Usage

```
sanzo.demo4()
```

Examples

```
sanzo.demo4()
```

sanzo.duo *Generate two-colored palettes*

Description

Generate two-colored palettes.

Usage

```
sanzo.duo(palette_name)
```

Arguments

palette_name	The short ID for the palette, e.g. "c006". For full list of duo IDs, use sanzo.info2().

Value

A vector of hexademicals of length 2.

Examples

```
# Assign palette to a name.
my_palette <- sanzo.duo("c229")

# Concatenate two duos for a custom quad.
c033 <- sanzo.duo("c033")
c095 <- sanzo.duo("c095")
custom_quad <- c(c033, c095)

# Use with base R.
```

```
plot(iris$Sepal.Width,
     iris$Sepal.Length,
     col = sanzo.duo("c085"))

# For examples of use with ggplot2, see https://github.com/jmaasch/sanzo.

# For examples of use as a gradient, see https://github.com/jmaasch/sanzo.
```

`sanzo.info.all` *See metadata for all palettes*

Description

Create data frame containing long-form names, short-form IDs, hexadecimal values, and links to Dain M. Blodorn Kim's https://sanzo-wada.dmbk.io for all sanzo palettes.

Usage

```
sanzo.info.all()
```

Value

Return data frame containing long-form names, short-form IDs, hex values, and URLs for all sanzo palettes.

Examples

```
info_df <- sanzo.info.all()
print(sanzo.info.all())
```

`sanzo.info2` *See metadata for all duo palettes*

Description

Create data frame containing long-form names, short-form IDs, hexadecimal values, and links to Dain M. Blodorn Kim's https://sanzo-wada.dmbk.io for all duo palettes.

Usage

```
sanzo.info2()
```

Value

Return data frame containing long-form names, short-form IDs, hex values, and URLs for all duos.

Examples

```
duo_info_df <- sanzo.info2()
print(sanzo.info2())
```

`sanzo.info3` *See metadata for all trio palettes*

Description

Create data frame containing long-form names, short-form IDs, hexadecimal values, and links to Dain M. Blodorn Kim's https://sanzo-wada.dmbk.io for all trio palettes.

Usage

```
sanzo.info3()
```

Value

Return data frame containing long-form names, short-form IDs, hex values, and URLs for all trios.

Examples

```
trio_info_df <- sanzo.info3()
print(sanzo.info3())
```

`sanzo.info4` *See metadata for all quad palettes*

Description

Create data frame containing long-form names, short-form IDs, hexadecimal values, and links to Dain M. Blodorn Kim's https://sanzo-wada.dmbk.io for all quad palettes.

Usage

```
sanzo.info4()
```

Value

Return data frame containing long-form names, short-form IDs, hex values, and URLs for all quads

Examples

```
quad_info_df <- sanzo.info4()
print(sanzo.info4())
```

sanzo.quad *Generate four-colored palettes*

Description

Generate four-colored palettes.

Usage

```
sanzo.quad(palette_name)
```

Arguments

palette_name	The short ID for the palette, e.g. "c263". For full list of quad IDs, use sanzo.info4().

Value

A vector of hexademicals of length 3.

Examples

```
# Assign palette to a name.
my_palette <- sanzo.quad("c252")

# Concatenate two quads for a custom eight-colored palette.
c348 <- sanzo.quad("c348")
c341 <- sanzo.quad("c341")
custom_eight <- c(c348, c341)

# Use with base R.
plot(iris$Sepal.Width,
     iris$Sepal.Length,
     col = sanzo.quad("c341"))

# For examples of use with ggplot2, see https://github.com/jmaasch/sanzo.

# For examples of use as a gradient, see https://github.com/jmaasch/sanzo.
```

sanzo.trio *Generate three-colored palettes*

Description

Generate three-colored palettes.

Usage

```
sanzo.trio(palette_name)
```

Arguments

palette_name	The short ID for the palette, e.g. "c121". For full list of trio IDs, use sanzo.info3().

Value

A vector of hexademicals of length 3.

Examples

```
# Assign palette to a name.
my_palette <- sanzo.trio("c223")

# Concatenate two trios for a custom six-colored palette.
c207 <- sanzo.trio("c207")
c226 <- sanzo.trio("c226")
custom_six <- c(c207, c226)

# Use with base R.
plot(iris$Sepal.Width,
     iris$Sepal.Length,
     col = sanzo.trio("c343"))

# For examples of use with ggplot2, see https://github.com/jmaasch/sanzo.

# For examples of use as a gradient, see https://github.com/jmaasch/sanzo.
```

---

trios *List of trios*

Description

List containing all 20 trio palettes, defined by hexadecimal values.

Usage

```
trios
```

Format

An object of class `list` of length 20.

Index