Package ‘sanzo’

October 14, 2022

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
NeedsCompilation  no
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Repository  CRAN
Date/Publication  2020-01-12 11:30:02 UTC

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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

**Description**

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

**Usage**

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

**Examples**

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

---

sanzo.demo2

**Description**

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

**Usage**

```r
sanzo.demo2()
```

**Examples**

```r
sanzo.demo2()
```

---

sanzo.demo3

**Description**

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

**Usage**

```r
sanzo.demo3()
```

**Examples**

```r
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**

```r
sanzo.demo4()
```

**Examples**

```r
sanzo.demo4()
```

---

sanzo.duo  

*Generate two-colored palettes*

**Description**

Generate two-colored palettes.

**Usage**

```r
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**

```r
# 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**

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

**Value**

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

**Examples**

```r
info_df <- sanzo.info.all()
priprint(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**

```r
sanzo.info2()
```

**Value**

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

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

---

### 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

```r
sanzo.info3()
```

### Value

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

### Examples

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

---

### 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

```r
sanzo.info4()
```

### Value

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

### Examples

```r
quad_info_df <- sanzo.info4()
print(sanzo.info4())
```
**sanzo.quad**

Generate four-colored palettes.

**Usage**

```r
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**

```r
# 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.
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