

Package: palettizer (via r-universe)

July 10, 2024

Title R Package for Color Palette Generation Using the 'palettize' C++ Library

Version 0.0.0.9000

Description R package for color palette generation using the 'palettize' C++ library.

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URL <https://gvelasq.github.io/palettizer>,
<https://github.com/gvelasq/palettizer>

BugReports <https://github.com/gvelasq/palettizer/issues>

Suggests covr, testthat (>= 3.0.0)

LinkingTo cpp11

Config/testthat/edition 3

Config/testthat/parallel true

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.2

SystemRequirements C++11

Repository <https://gvelasq.r-universe.dev>

RemoteUrl <https://github.com/gvelasq/palettizer>

RemoteRef HEAD

RemoteSha f87e8eef335ad7daa59be9b4f1761e554918ca40

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plt_check	<i>Check if a file is an image from a supported format</i>
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Description

plt_check() is a wrapper around the C++ function stbi_info from stb_image.h. It checks whether a file is an image from a supported format. This is useful for checking whether plt_tize() can create a color palette from a file without having to decode the entire file.

Usage

```
plt_check(path)
```

Arguments

path	A path to a file to be checked.
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Details

Future versions of this function will expose how to query the width, height, and component count of an image.

Value

plt_check() returns TRUE if the file is an image from a supported format, and returns FALSE for non-image files and images from unsupported formats.

plt_tize	<i>Create a color palette</i>
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Description

plt_tize() creates a color palette from a supported image file.

Usage

```
plt_tize(path, cluster_count, seed, sort_type = "weight")
```

Arguments

path	A path to a supported image file.
cluster_count	The number of clusters for k-means clustering.
seed	An integer to specify the seed for the random number generator.
sort_type	A character vector, one of "weight" (the default), "red", "green", or "blue".

Value

A character vector of hexadecimal colors.

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