

# Package: palettizer (via r-universe)

September 8, 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.

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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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