

# Package ‘makePalette’

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**Type** Package

**Title** Make Palette

**Version** 0.1.2

**Description** Functions that allow you to create your own color palette from an image, using mathematical algorithms.

**Depends** R (>= 3.5.0)

**License** GPL-3

**Encoding** UTF-8

**RoxygenNote** 7.2.3

**URL** <https://github.com/musajajorge/makePalette>

**Imports** terra, cluster, grDevices, prismatic

**NeedsCompilation** no

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**Repository** CRAN

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makePaletteCLARA      *Make your color palette with the CLARA algorithm*

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**Description**

Creates a color palette from an image, using the CLARA (Clustering Large Applications) algorithm

**Usage**

```
makePaletteCLARA(photo, n = 4)
```

**Arguments**

photo                  Image location path. It can also be a URL address.  
n                        Number of elements to be generated in the color palette. The default value is 4.

**Value**

A palette of colors

**Examples**

```
makePaletteCLARA(system.file("extdata", "picture02.jpg", package="makePalette"))  
makePaletteCLARA(system.file("extdata", "picture04.png", package="makePalette"), 6)  
makePaletteCLARA(system.file("extdata", "picture05.jpg", package="makePalette"), 10)  
MyPalette = makePaletteCLARA(system.file("extdata", "picture05.jpg", package="makePalette"), 10)  
barplot(1:10, col=MyPalette)
```

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makePaletteKM              *Make your color palette with KMeans algorithm*

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**Description**

Creates a color palette from an image, using the KMeans algorithm

**Usage**

```
makePaletteKM(photo, n = 4)
```

**Arguments**

photo                  Image location path. It can also be a URL address.  
n                        Number of elements to be generated in the color palette. The default value is 4.

**Value**

A palette of colors

**Examples**

```
makePaletteKM(system.file("extdata", "picture02.jpg", package="makePalette"))
makePaletteKM(system.file("extdata", "picture04.png", package="makePalette"), 6)
makePaletteKM(system.file("extdata", "picture05.jpg", package="makePalette"), 10)
MyPalette = makePaletteKM(system.file("extdata", "picture05.jpg", package="makePalette"), 10)
barplot(1:10, col=MyPalette)
```

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