

Package ‘earthtones’

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Title Derive a Color Palette from a Particular Location on Earth

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Description Downloads a satellite image via Google Maps/Earth (these are originally from a variety of aerial photography sources), translates the image into a perceptually uniform color space, runs one of a few different clustering algorithms on the colors in the image searching for a user-supplied number of colors, and returns the resulting color palette.

Depends R (>= 3.1.0)

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LazyData true

Author Will Cornwell, Mitch Lyons, Nick Murray

Maintainer Will Cornwell <wcornwell@gmail.com>

Imports ggmap (>= 2.6.1)

Suggests testthat, cluster, knitr, rmarkdown, ggplot2

RoxygenNote 6.0.1

NeedsCompilation no

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get_earthtones *Find the color palette of a particular place on earth*

Description

Earthtones downloads a satellite image from google earth, translates the image into a perceptually uniform color space, runs one of a few different clustering algorithms on the colors in the image searching for a user supplied number of colors, and returns the resulting color palette.

Usage

```
get_earthtones(latitude = 50.759, longitude = -125.673, zoom = 11,  
  number_of_colors = 3, method = "pam", sampleRate = 500,  
  include.map = TRUE, ...)
```

Arguments

latitude	center of the returned satellite image
longitude	center of the returned satellite image
zoom	generally this should be between 2 and 20; higher values zoom in closer to the target lat/long; for details see get_map
number_of_colors	how many colors do you want?
method	specifies clustering method. Options are kmeans or pam (partitioning around medoids)
sampleRate	subsampling factor - bigger number = more subsampling and less computation
include.map	logical flag that determines whether to return the satellite image with the data object; for exploring the world leave this as TRUE; if/when you settle on a color scheme and are using this within a visualization, change to FALSE and the function will return a normal R-style color palette.
...	additional arguments passed to get_map

Details

Different parts of the world have different color diversity. Zoom is also especially important. To visualize the results, simply print the resulting object.

See Also

[get_map](#), [kmeans](#)

Examples

```
## Not run:
```

```
get_earthtones(latitude = 24.2, longitude = -77.88, zoom = 11, number_of_colors = 5)
```

```
## End(Not run)
```

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