

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

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Imports ggmap (>= 2.6.1)

Suggests testthat, cluster, knitr, rmarkdown, ggplot2

VignetteBuilder knitr

RoxygenNote 5.0.1

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

<code>latitude</code>	center of the returned satellite image
<code>longitude</code>	center of the returned satellite image
<code>zoom</code>	generally this should be between 2 and 20; higher values zoom in closer to the target lat/long; for details see get_map
<code>number_of_colors</code>	how many colors do you want?
<code>method</code>	specifies clustering method. Options are kmeans or pam (partitioning around medoids)
<code>sampleRate</code>	subsampling factor - bigger number = more subsampling and less computation
<code>include.map</code>	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.
<code>...</code>	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](#), [pam](#)

Examples

```
## Not run:
```

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

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

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