Package 'aRtsy'

April 15, 2021

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Title Generative Art
Version 0.1.0
Date 2021-04-15
Description Implements generative art.
BugReports https://github.com/koenderks/aRtsy/issues
<pre>URL https://github.com/koenderks/aRtsy</pre>
Imports ggplot2, dplyr, tweenr, randomcoloR, reshape2, RcppArmadillo, Rcpp, knitr
LinkingTo Rcpp, RcppArmadillo
Language en-US
License GPL-3
Encoding UTF-8
LazyData true
RoxygenNote 7.1.1
VignetteBuilder knitr
R topics documented: paint_shape
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paint_shape Paint shapes
Description This function paints shapes.
Usage
<pre>paint_shape(color = '#000000', background = '#fafafa', seed = 1)</pre>

paint_strokes

Arguments

color the color of the shape.

background the color of the background. seed the seed for the painting.

Value

A ggplot object with the painting.

Author(s)

Koen Derks, <koen-derks@hotmail.com>

References

https://github.com/cutterkom/generativeart

See Also

```
paint_strokes paint_turmite
```

Examples

```
bg <- sample(c('#fafafa', '#cc7722', '#a9d2c3', '#fc7c7c'), size = 1)
paint_shape(color = '#000000', background = bg)</pre>
```

paint_strokes

Paint strokes

Description

This function paints strokes.

Usage

```
paint_strokes(palette = '#000000', neighbors = 1, p = 0.01, seed = 1, iter = 1, width = 500, height = 500)
```

Arguments

palette a vector of colors for the painting.

neighbors the number of neighbors a block considers when taking over a color.

p the probability of .
seed the seed for the painting.
iter the number of iterations.
width the width of the painting.
height the height of the painting.

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Value

A ggplot object with the painting.

Author(s)

Koen Derks, <koen-derks@hotmail.com>

See Also

```
paint_turmite paint_shape
```

Examples

```
paint_strokes(palette = c('#fafafa', '#000000'), neighbors = 1, p = 0.01, seed = 1, iter = 1, width = 1500, height = 1500)
```

paint_turmite

Paint turmites

Description

This function paints turmites.

Usage

Arguments

color the color of the turmite.
background the color of the background.

p the probability of a state switch within the turmite.

seed the seed for the painting.

iterations the number of iterations of the turmite.

width the width of the painting.
height the height of the painting.

Value

A ggplot object with the painting.

Author(s)

Koen Derks, <koen-derks@hotmail.com>

References

https://en.wikipedia.org/wiki/Turmite

paint_turmite

See Also

```
paint_strokes paint_shape
```

Examples

```
paint\_turmite(color = "#fafafa", background = "#1E90FF", p = 0.5,\\ seed = 1, iterations = 1e7, width = 1500, height = 1500)
```

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