Package ‘rusk’

May 27, 2018

Title Beautiful Graphical Representation of Multiplication Tables on a Modular Circle

Version 0.1.1

Description By placing on a circle 10 points numbered from 1 to 10, and connecting them by a straight line to the point corresponding to its multiplication by 2. (1 must be connected to 1 * 2 = 2, point 2 must be set to 2 * 2 = 4, point 3 to 3 * 2 = 6 and so on). You will obtain an amazing geometric figure that complicates and beautifies itself by varying the number of points and the multiplication table you use.

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URL https://github.com/ThinkR-open/rusk

BugReports https://github.com/ThinkR-open/rusk/issues

Depends R (>= 3.4.0)

Imports dplyr, ggforce, ggplot2, reshape2, shiny, tidyr

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2018-05-27 13:55:45 UTC

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**Description**

By placing on a circle 10 points numbered from 1 to 10, and connecting them by a straight line to the point corresponding to its multiplication by 2. (1 must be connected to $1 \times 2 = 2$, point 2 must be set to $2 \times 2 = 4$, point 3 to $3 \times 2 = 6$ and so on). You will obtain an amazing geometric figure that complicates and beautifies itself by varying the number of points and the multiplication table you use.

**Details**

Use `draw()` or `draw_app()`

**Author(s)**

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**References**

https://www.youtube.com/embed/qhbukbxJsk8?rel=0
https://www.youtube.com/embed/-X49Qgi86E?rel=0

**Usage**

```r
draw(table = 2, modulo = 10, label = FALSE)
```

**Arguments**

- `table`: multiplication table to plot
- `modulo`: number of points to use
- `label`: show number label
`draw_app`  

**Value**  

a ggplot  

**Examples**  

```r  
draw(table=2, modulo = 10, label=TRUE)  
draw(table=2, modulo = 50, label=FALSE)  
draw(table=2, modulo = 250)  
draw(table=10, modulo = 250)  
```

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**draw_app**  

*open shiny app*

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**Description**  

open shiny app

**Usage**  

```r  
draw_app()  
```
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