Package ‘rusk’

October 14, 2022

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.

License  GPL-3

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()

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References
https://www.youtube.com/embed/qhbuKbxJsk8?rel=0
https://www.youtube.com/embed/-X49VQgi86E?rel=0

Usage
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

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

draw_app open shiny app

Description

open shiny app

Usage

draw_app()
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