

# Package ‘rusk’

May 9, 2026

**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

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## Contents

rusk-package . . . . .	2
draw . . . . .	2
draw_app . . . . .	3

<b>Index</b>	<b>4</b>
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rusk-package

*Beautiful graphical representation of multiplication tables*

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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  $1 * 2 = 2$ , 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.

**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/-X49VQgi86E?rel=0>

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draw

*Beautiful graphical representation of multiplication tables*

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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  $1 * 2 = 2$ , 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.

**Usage**

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

**Arguments**

table	multiplication table to plot
modulo	number of points to use
label	show number label

**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)
```

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*draw\_app*

*open shiny app*

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**Description**

open shiny app

**Usage**

```
draw_app()
```

# Index

`draw`, [2](#)

`draw_app`, [3](#)

`rusk (rusk-package)`, [2](#)

`rusk-package`, [2](#)