

Package ‘RDP’

June 24, 2021

Title The Ramer-Douglas-Peucker Algorithm

Version 0.1.4

Description Pretty fast implementation of the Ramer-Douglas-Peucker algorithm for reducing the number of points on a 2D curve. Urs Ramer (1972), ``An iterative procedure for the polygonal approximation of plane curves" <doi:10.1016/S0146-664X(72)80017-0>. David H. Douglas and Thomas K. Peucker (1973), ``Algorithms for the Reduction of the Number of Points Required to Represent a Digitized Line or its Caricature" <doi:10.3138/FM57-6770-U75U-7727>.

License GPL-3

URL <https://github.com/robertdj/RDP>

Encoding UTF-8

RoxygenNote 7.1.1

Suggests testthat

LinkingTo Rcpp

Imports Rcpp

NeedsCompilation yes

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Repository CRAN

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RDP-package

RDP *package*

Description

Implementation of the **Ramer-Douglas-Peucker algorithm**.

Author(s)

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See Also

Useful links:

- <https://github.com/robertdj/RDP>
-

RamerDouglasPeucker

Ramer-Douglas-Peucker

Description

The Ramer-Douglas-Peucker algorithm for reducing the number of points on a curve.

Usage

```
RamerDouglasPeucker(x, y, epsilon)
```

Arguments

| | |
|---------|-----------------------------------------------------------------|
| x | The x values of the curve as a vector. |
| y | The y values of the curve as a vector. |
| epsilon | The threshold for filtering outliers from the simplified curve. |

Value

A data.frame with x and y values of the simplified curve.

Examples

```
RDP::RamerDouglasPeucker(x = c(0, 1, 3, 5), y = c(2, 1, 0, 1), epsilon = 0.5)
```

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