

Package: gepaf (via r-universe)

October 16, 2024

Type Package

Title Google Encoded Polyline Algorithm Format

Version 0.2.0

Description Encode and decode the Google Encoded Polyline Algorithm Format. See <https://developers.google.com/maps/documentation/utilities/polylinealgorithm> for more information.

License GPL-3

Imports bitops

Suggests tinytest

URL <https://github.com/riatelab/gepaf>

BugReports <https://github.com/riatelab/gepaf/issues>

RoxygenNote 7.3.2

Encoding UTF-8

Repository <https://riatelab.r-universe.dev>

RemoteUrl <https://github.com/riatelab/gepaf>

RemoteRef HEAD

RemoteSha 61a95a23bd2b5b335234993aacf598725c64ebd3

Contents

decodePolyline	2
encodePolyline	2
gepaf	3

Index	4
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decodePolyline	<i>Decode a Google Polyline to a Data Frame</i>
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Description

Decode a Google polyline to a data frame of coordinates.

Usage

```
decodePolyline(enc_polyline, factor = 5)
```

Arguments

enc_polyline	a Google polyline.
factor	number of decimal digits to be used.

Value

A data frame of latitudes and longitudes is returned.

Examples

```
coords <- decodePolyline(enc_polyline = "_p~iF~ps|U_ulLnnqC_mqNvxq`@")
coords
```

encodePolyline	<i>Encode Coordinates to Google Polylines</i>
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Description

Encode a data.frame of coordinates to a Google polyline.

Usage

```
encodePolyline(df_coords, factor = 5)
```

Arguments

df_coords	a data frame of coordinates with two columns: latitudes and longitudes. Coordinates must be in decimal degrees (WGS84).
factor	number of decimal digits to be used.

Value

An encoded polyline is returned.

Examples

```
coords <- data.frame(  
  lat = c(38.5, 40.7, 43.252),  
  lon = c(-120.2, -120.95, -126.453)  
)  
encpoly <- encodePolyline(coords)  
encpoly
```

gepaf

Google Encoded Polyline Algorithm Format

Description

Encode and decode the Google Encoded Polyline Algorithm Format.

See the documentation here:

<https://developers.google.com/maps/documentation/utilities/polylinealgorithm>.

Note

Mostly a translation of https://github.com/mthh/polyline_ggl/ (itself a modest translation (i.g no GeoJSON wrapper, etc.) of other well known available implementations such as [Node.js Mapbox](#) one).

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See Also

[encodePolyline](#), [decodePolyline](#).

Index

`decodePolyline`, [2](#), [3](#)

`encodePolyline`, [2](#), [3](#)

`gepaf`, [3](#)

`gepaf-package (gepaf)`, [3](#)