Package 'gepaf'

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

NeedsCompilation no

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Repository CRAN

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Contents

decodePolyline *Decode a Google Polyline to a Data Frame*

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 *Encode Coordinates to Google Polylines*

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
```

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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).

Author(s)

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See Also

encodePolyline, decodePolyline.

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