

# Package ‘gepaf’

July 22, 2025

**Type** Package

**Title** Google Encoded Polyline Algorithm Format

**Version** 0.2.0

**Description** Encode and decode the Google Encoded Polyline Algorithm Format.

See [https:](https://developers.google.com/maps/documentation/utilities/polylinealgorithm)

[//developers.google.com/maps/documentation/utilities/polylinealgorithm](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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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
```

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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
```

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gepaf

*Google Encoded Polyline Algorithm Format*

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**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/](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](#).

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