TerraFly Routing Services API

API URL

http://{server}/car/{service}?{parameter}={value}
http://{server}/foot/{service}?{parameter}={value}
http://{server}/bicycle/{service}?{parameter}={value}

Obsolete: http://{server}/{service}?{parameter}={value}

Note: This API is obsolete and should not be used anymore. It returns routes for cars. It’s kept for compatible purposes only.

{server}

Current server is: 131.94.133.147:5000

{service}

- viaroute
  - shortest path between given coordinates
- nearest
  - returns the nearest street segment for a given coordinate
- locate
  - matches given coordinates to the road network

Parameters for viaroute service

Query format

http://{server}/{mode}/viaroute?loc={lat,lon}&loc={lat,lon}&loc={lat,lon}&parameter=value&...

Parameter: loc
- **Value**: lat,lon
- **Description**: Location of the via point.

**Parameter: compression**

- **Value**: true (default), false
- **Description**: Compress route geometry as a polyline; geometry is a list of [lat, lon] pairs if false.

**Parameter: z**

- **Value**: 0...18, default is 18
- **Description**: Zoom level used for compressing the route geometry accordingly. The lower the value, the more compressed the route will be (returned route will contain less lat,lon point pairs)

**Parameter: output**

- **Value**: json (default), gpx
- **Description**: Control the output format.

**Parameter: instructions**

- **Value**: true, false (default)
- **Description**: Return route instructions for each route.

**Parameter: alt**

- **Value**: true (default), false
- **Description**: Return an alternative route.

**Parameter: uturns**

- **Value**: true, false (default)
- **Description**: Enable u-turns at all via points.
Parameters for nearest service

Query format

http://{server}/{mode}/nearest?loc={lat,lon}

Parameter: loc

- Value: lat,lon
- Description: Location of the node as latitude longitude pair separated by a comma.

Parameters for locate service

Query format

http://{server}/{mode}/locate?loc={lat,lon}

Parameter: loc

- Value: lat,lon
- Description: Location of the node as latitude longitude pair separated by a comma.

Example for viaroute service

Visit this url:


Will produce this result:

{"hint_data":{"locations":["P6UvBv_____94VQ8AAwAAEAAABeAAAAAAAAAOyCCQVWE4kBv441-wMAEQA","vpIfAf____-hRO8AwAAAAL0AAAAAAAAAAAAAAAAAP____98S4kBQME1-wAAEQA"],"checksum":1526818058},"route_name":null,"via_indices":null,"via_points":null,"found_alternative":false,"route_summary":null,"end_point":"Fontainebleau Boulevard","start_point":"SW 112th Avenue","total_time":254,"total_distance":3051,"route_geometry":null}

**Explanation of the JSON returned by viaroute service**

- **hint data:**
  this gives the information about the true start and endpoint.

- **Route_geometry:**
  1.   **compression = true** (default)

     This field is a long encoded string, using the encoded polyline algorithm. This algorithm encodes the longitude and latitude of the via-points. You can decode the string on the [https://developers.google.com/maps/documentation/utilities/polylinealgorithm](https://developers.google.com/maps/documentation/utilities/polylinealgorithm)

     2.   **compression = false**

     the response will not be encoded

- **status:**

  Status code. 0 means successful; 207 means no-route

- **route_instruction:**

  route instructions are returned in an array. Each part is an array of 8 fields

  ["instruction","streetname",length,position,time,"length","earth_direction",azimuth]

  Example: ["Turn left","High Street",200,4,10,"200m","NE",22.5]

- **via_indices:**

  is an integer array that contains the position of start, end as also way points
route summary:

- total_distance: total length in meters
- total_time: total trip time in seconds