

InfoPortugal Routing Service API

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1 Introduction

This document describes the InfoPortugal Routing Service API.

2 Routing

Service for routing

2.1 Request

- (GET) /routing.json

2.2 Parameters

- from: <string> lon,lat format (**required**)
- to: <string> lon,lat format (**required**)
- type: <integer> 0: fastest, 1: shortest, 2: by foot (**required**)
- tolls <integer> 0: false, 1: true (**required**)
- cost <integer> 0: false, 1: class1, 2: class2, 3: class3, 4: class4
- showstreets: <integer> 0: false, 1: true
- showmaneuvers: <integer> 0: false, 1: true
- callback: <string> JSONP Callback - Only available if the server supports
- api_key: <string> API key (**required**)

2.3 Response

2.3.1 GeoJSON

[GeoJSON](#) is a format for encoding a variety of geographic data structures. A GeoJSON object may represent a geometry, a feature, or a collection of features. GeoJSON supports the following geometry types: Point, LineString, Polygon, MultiPoint, MultiLineString, MultiPolygon, and GeometryCollection. Features in GeoJSON contain a geometry object and additional properties, and a feature collection represents a list of features.

The service will return a [FeatureCollection](#).

```
{
  "status": "ok",
  "totalCost": "0.60",
  "totalDuration": "163",
  "totalDistance": "1796",
  "streets": {
    "type": "LineString",
    "coordinates": [
      [-959271.540824, 5035609.34866],
      [-959256.147256, 5035624.01312],
      [-959242.664613, 5035648.26594],
      [-959234.065448, 5035675.90294],
      [-959225.36012, 5035749.79],
      [-959237.993462, 5035797.16826],
      [-959237.993462, 5035797.16826],
      [-959250.626804, 5035824.80569],
      [-959250.626804, 5035824.80569],
      [-959257.845857, 5035953.9694],
      [-959257.845857, 5035953.9694],
      [-959257.845857, 5035996.2723],
      [-959257.845857, 5035996.2723],
      [-959222.599893, 5036064.52137],
      [-959212.089802, 5036112.46521],
      [-959212.089802, 5036112.46521],
      [-959207.206325, 5036157.025],
      [-959207.206325, 5036157.025],
      [-959181.090341, 5036321.72878],
      [-959181.090341, 5036321.72878],
      [-959164.316659, 5036467.82112],
      [-959164.316659, 5036467.82112],
      [-959132.786385, 5036704.16822],
      [-959132.786385, 5036704.16822],
      [-959084.05778, 5037099.59713],
      [-959084.05778, 5037099.59713],
      [-959090.002882, 5037105.80228],
      [-959090.002882, 5037105.80228],
      [-959099.451348, 5037115.39206],
      [-959099.451348, 5037115.39206],
      [-959240.966013, 5037262.06048],
      [-959306.4683, 5037449.348],
      [-959306.4683, 5037449.348],
      [-959288.314505, 5037466.83587],
    ]
  }
}
```

2.3 Response

```
        [-959288.314505, 5037466.83587],
        [-959293.51647, 5037517.6073],
        [-959324.834419, 5037608.99654],
        [-959324.834419, 5037608.99654],
        [-959353.392142, 5037707.15631],
        [-959353.392142, 5037707.15631],
        [-959431.846258, 5037693.05284]
    ],
    "maneuvers": {
      "type": "FeatureCollection",
      "features": [{
        "type": "Feature",
        "id": "0",
        "geometry": {
          "type": "Point",
          "coordinates": [-959271.434662, 5035609.34866]
        },
        "properties": {
          "description": "Rua do Melo",
          "type": "From",
          "distance": "0",
          "time": "0",
          "cost": "0.00"
        }
      }, {
        "type": "Feature",
        "id": "1",
        "geometry": {
          "type": "Point",
          "coordinates": [-959250.626804, 5035824.80569]
        },
        "properties": {
          "description": "Rua do Monte Cativo",
          "type": "RightBifurcation",
          "distance": "230",
          "time": "17",
          "cost": "0.00"
        }
      }, {
        "type": "Feature",
        "id": "2",
        "geometry": {
          "type": "Point",
          "coordinates": [-959090.002882, 5037105.80228]
        },
        "properties": {
          "description": "Rua de São Dinis",
          "type": "TurnLeft",
          "distance": "972",
          "time": "83",
          "cost": "0.60"
        }
      }, {
        "type": "Feature",
        "id": "3",
        "geometry": {
          "type": "Point",
```

2.3 Response

```
        "coordinates": [-959306.4683, 5037449.348]
      }, "properties": {
        "description": "Rua de 9 de Abril",
        "type": "TurnRight",
        "distance": "311",
        "time": "2",
        "cost": "0.00"
      }
    }, {
      "type": "Feature",
      "id": "4",
      "geometry": {
        "type": "Point",
        "coordinates": [-959288.314505, 5037466.83587]
      }, "properties": {
        "description": "Travessa de Monsanto",
        "type": "TurnLeft",
        "distance": "18",
        "time": "25",
        "cost": "0.00"
      }
    }, {
      "type": "Feature",
      "id": "5",
      "geometry": {
        "type": "Point",
        "coordinates": [-959353.392142, 5037707.15631]
      }, "properties": {
        "description": "Rua de Monsanto",
        "type": "TurnLeft",
        "distance": "186",
        "time": "17",
        "cost": "0.00"
      }
    }, {
      "type": "Feature",
      "id": "6",
      "geometry": {
        "type": "Point",
        "coordinates": [-959431.740096, 5037693.05284]
      }, "properties": {
        "description": "Rua de Monsanto",
        "type": "Arrival",
        "distance": "79",
        "time": "19",
        "cost": "0.00"
      }
    }
  ]
}
```