

# InfoPortugal Geocoding Service API

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**Copyright:** InfoPortugal S.A.  
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## Versions:

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## 1 Introduction

This document describes the InfoPortugal Geocoding Service API.

## 2 Geocoding

Service for searching Points Of Interest

### 2.1 Request

- (GET) /geocoding.json

### 2.2 Parameters

- address: <string> Address
- locality: <string> Locality
- number <integer> Number
- post\_code\_4: <string> Postal code in DDDD format
- post\_code\_3: <string> Postal code in DDD format
- 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](#).

```
{
  "type": "FeatureCollection",
  "features": [{
    "geometry": {
      "type": "Point",
      "coordinates": [-8.6261249644893692, 41.177761584608398]
    },
    "type": "Feature",
    "properties": {
      "administrative_area": "Porto, Ramalde",
      "type": "address",
      "name": "Rua do Professor Sousa Júnior",
      "rank": "0.0922647"
    }
  }]
}
```

## 3 Districts

Service for retrieving the list of districts

### 3.1 Request

- (GET) /geocoding.districts.json

### 3.2 Parameters

- callback: <string> JSONP Callback - Only available if the server supports
- api\_key: <string> API key (**required**)

## 3.3 Response

### 3.3.1 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](#).

```
{
  "type": "FeatureCollection",
  "features": [{
    "geometry": {
      "type": "Point",
      "coordinates": [-8.468357766, 40.72366981]
    },
    "type": "Feature",
    "properties": {
      "id": "01",
      "name": "Aveiro"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-7.943880337, 37.829703543]
    },
    "type": "Feature",
    "properties": {
      "id": "02",
      "name": "Beja"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-8.309815792, 41.552951823]
    },
    "type": "Feature",
    "properties": {
      "id": "03",
      "name": "Braga"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-6.859328767, 41.5094054]
    },
    "type": "Feature",
    "properties": {
```

### 3.3 Response

```
        "id": "04",
        "name": "Bragança"
    },
    {
        "geometry": {
            "type": "Point",
            "coordinates": [-7.501618357, 39.946485008]
        },
        "type": "Feature",
        "properties": {
            "id": "05",
            "name": "Castelo Branco"
        }
    },
    {
        "geometry": {
            "type": "Point",
            "coordinates": [-8.335903541, 40.204414426]
        },
        "type": "Feature",
        "properties": {
            "id": "06",
            "name": "Coimbra"
        }
    },
    {
        "geometry": {
            "type": "Point",
            "coordinates": [-8.131659278, 37.243719085]
        },
        "type": "Feature",
        "properties": {
            "id": "08",
            "name": "Faro"
        }
    },
    {
        "geometry": {
            "type": "Point",
            "coordinates": [-7.229586093, 40.641321139]
        },
        "type": "Feature",
        "properties": {
            "id": "09",
            "name": "Guarda"
        }
    },
    {
        "geometry": {
            "type": "Point",
            "coordinates": [-28.010207455, 39.052199138]
        },
        "type": "Feature",
```

### 3.3 Response

```
    "properties": {
      "id": "44",
      "name": "Ilha Graciosa"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-27.211158571, 38.723793776]
    },
    "type": "Feature",
    "properties": {
      "id": "43",
      "name": "Ilha Terceira"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-16.985732709, 32.732698002]
    },
    "type": "Feature",
    "properties": {
      "id": "31",
      "name": "Ilha da Madeira"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-31.203108341, 39.442762923]
    },
    "type": "Feature",
    "properties": {
      "id": "48",
      "name": "Ilha das Flores"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-16.343891247, 33.066630332]
    },
    "type": "Feature",
    "properties": {
      "id": "32",
      "name": "Ilha de Porto Santo"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-25.099369933, 36.972266787]
    },
    "type": "Feature",
    "properties": {
      "id": "33",
      "name": "Ilha da Formosa"
    }
  }
}
```



### 3.3 Response

```
    "type": "Feature",
    "properties": {
      "id": "41",
      "name": "Ilha de Santa Maria"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-28.028122886, 38.637132792]
    },
    "type": "Feature",
    "properties": {
      "id": "45",
      "name": "Ilha de São Jorge"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-25.481448522, 37.796340223]
    },
    "type": "Feature",
    "properties": {
      "id": "42",
      "name": "Ilha de São Miguel"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-31.105852121, 39.699925697]
    },
    "type": "Feature",
    "properties": {
      "id": "49",
      "name": "Ilha do Corvo"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-28.700242132, 38.578120806]
    },
    "type": "Feature",
    "properties": {
      "id": "47",
      "name": "Ilha do Faial"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-28.332472088, 38.469371255]
```

### 3.3 Response

```
    },
    "type": "Feature",
    "properties": {
      "id": "46",
      "name": "Ilha do Pico"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-8.77523658, 39.71727742]
    },
    "type": "Feature",
    "properties": {
      "id": "10",
      "name": "Leiria"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-9.16354307, 38.9981905]
    },
    "type": "Feature",
    "properties": {
      "id": "11",
      "name": "Lisboa"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-7.620443097, 39.190061889]
    },
    "type": "Feature",
    "properties": {
      "id": "12",
      "name": "Portalegre"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-8.352669947, 41.224767731]
    },
    "type": "Feature",
    "properties": {
      "id": "13",
      "name": "Porto"
    }
  },
  {
    "geometry": {
      "type": "Point",
```

### 3.3 Response

```
        "coordinates": [-8.477571236, 39.293484841]
    },
    "type": "Feature",
    "properties": {
        "id": "14",
        "name": "Santarém"
    }
},
{
    "geometry": {
        "type": "Point",
        "coordinates": [-8.649229056, 38.314534803]
    },
    "type": "Feature",
    "properties": {
        "id": "15",
        "name": "Setúbal"
    }
},
{
    "geometry": {
        "type": "Point",
        "coordinates": [-8.507006925, 41.877906907]
    },
    "type": "Feature",
    "properties": {
        "id": "16",
        "name": "Viana do Castelo"
    }
},
{
    "geometry": {
        "type": "Point",
        "coordinates": [-7.63169458, 41.554971526]
    },
    "type": "Feature",
    "properties": {
        "id": "17",
        "name": "Vila Real"
    }
},
{
    "geometry": {
        "type": "Point",
        "coordinates": [-7.870908777, 40.798875939]
    },
    "type": "Feature",
    "properties": {
        "id": "18",
        "name": "Viseu"
    }
},
{
    "geometry": {
```

### 3.3 Response

```
    "type": "Point",
    "coordinates": [-7.841801625, 38.603871623]
  },
  "type": "Feature",
  "properties": {
    "id": "07",
    "name": "Évora"
  }
}
}
```

## 4 Municipalities

Service for retrieving the list of municipalities of a district

### 4.1 Request

- (GET) `/geocoding.municipalities.json`

### 4.2 Parameters

- `district <integer>` District ID (**required**)
- `callback: <string>` JSONP Callback - Only available if the server supports
- `api_key: <string>` API key (**required**)

## 4.3 Response

### 4.3.1 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](#).

```
{
  "municipalities": [{
    "geometry": {
      "type": "Point",
      "coordinates": [-8.495612714,
        40.699584494
      ]
    },
    "type": "Feature",
    "properties": {
      "id": "0102",
      "district": "01",
      "name": "Albergaria-a-Velha"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-8.44278637,
        40.452619775
      ]
    },
    "type": "Feature",
    "properties": {
      "id": "0103",
      "district": "01",
      "name": "Anadia"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-8.25173373,
        40.92876549
      ]
    },
    "type": "Feature",
    "properties": {
      "id": "0104",
      "district": "01",
      "name": "Arouca"
    }
  }
}
```

### 4.3 Response

```
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [-8.6282243,
          40.642198263
        ]
      },
      "type": "Feature",
      "properties": {
        "id": "0105",
        "district": "01",
        "name": "Aveiro"
      }
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [-8.303041768,
          41.018249243
        ]
      },
      "type": "Feature",
      "properties": {
        "id": "0106",
        "district": "01",
        "name": "Castelo de Paiva"
      }
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [-8.625786911,
          40.994777735
        ]
      },
      "type": "Feature",
      "properties": {
        "id": "0107",
        "district": "01",
        "name": "Espinho"
      }
    }
  ]
}
```

## 5 Localities

Service for retrieving the list of localities of a municipality

### 5.1 Request

- (GET) /geocoding.localities.json

### 5.2 Parameters

- municipality <integer> District ID (**required**)
- callback: <string> JSONP Callback - Only available if the server supports
- api\_key: <string> API key (**required**)



## 5.3 Response

### 5.3.1 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](#).

```
{
  "localities": [{
    "geometry": {
      "type": "Point",
      "coordinates": [-8.323537863,
        40.575577002
      ]
    },
    "type": "Feature",
    "properties": {
      "municipality": "0101",
      "id": "010101",
      "district": "01",
      "name": "Agadão"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-8.32305366,
        40.563031988
      ]
    },
    "type": "Feature",
    "properties": {
      "municipality": "0101",
      "id": "010101",
      "district": "01",
      "name": "Agadão"
    }
  },
  {
    "geometry": {
      "type": "Point",
      "coordinates": [-8.322441098,
        40.551842885
      ]
    },
    "type": "Feature",
    "properties": {
      "municipality": "0101",
      "id": "010101",

```

### 5.3 Response

```
        "district": "01",
        "name": "Agadão"
      }
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [-8.322348012,
          40.549680289
        ]
      },
      "type": "Feature",
      "properties": {
        "municipality": "0101",
        "id": "010101",
        "district": "01",
        "name": "Agadão"
      }
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [-8.317154688,
          40.543540434
        ]
      },
      "type": "Feature",
      "properties": {
        "municipality": "0101",
        "id": "010101",
        "district": "01",
        "name": "Agadão"
      }
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [-8.31495763,
          40.53998529
        ]
      },
      "type": "Feature",
      "properties": {
        "municipality": "0101",
        "id": "010101",
        "district": "01",
        "name": "Agadão"
      }
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [-8.31491639,
          40.542591438
        ]
      },
      "type": "Feature",
      "properties": {
        "municipality": "0101",
        "id": "010101",
        "district": "01",
        "name": "Agadão"
      }
    }
  ]
}
```

### 5.3 Response

```
    ]
  },
  "type": "Feature",
  "properties": {
    "municipality": "0101",
    "id": "010101",
    "district": "01",
    "name": "Agadão"
  }
},
{
  "geometry": {
    "type": "Point",
    "coordinates": [-8.310687788,
                   40.534493295
    ]
  },
  "type": "Feature",
  "properties": {
    "municipality": "0101",
    "id": "010101",
    "district": "01",
    "name": "Agadão"
  }
}
}]
}
```