

Yandex.Maps API

Geocoding

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Geocoding

The Yandex.Maps service provides a geocoding service for its users. This service can determine geographical coordinates and other information about an object using its name or address, as well as the opposite, using the coordinates of an object to determine its address (reverse geocoding).

For example, the geocoder receives the request “Türkiye, İstanbul, Kartal, Esentepe, Aydos Sokak, 32” and returns the geographical coordinates of this building: “29.198184 40.900640” (longitude, latitude). Conversely, if the request contains the geographical coordinates of the building “29.198184 40.900640”, the geocoder will return the address.

The geocoder can be accessed either over the HTTP protocol or using the [JavaScript API](#). When accessing the geocoder over HTTP, the response may be formed either as an XML document in [YMapsML](#) format, or in [JSON](#) format.

This document describes [parameters for sending an HTTP request](#) to the geocoder and the [response](#), and also provides examples.

HTTP request parameters

A request for the geocoder consists of an HTTP request sent to the URL <http://geocode-maps.yandex.ru/1.x/>.

For example, to find out the coordinates of the building at the address "Kabasakal Caddesi, Istanbul, Turkey", we could send the following request to the geocoder:

```
http://geocode-maps.yandex.ru/1.x/?geocode=Kabasakal+Caddesi,+Istanbul,+Turkey&lang=en-US
```

In response, the geocoder returns the geographical coordinates of the building, along with any additional information about the found object (see the [request response](#)).

For reverse geocoding, the request specifies the coordinates of the object you are looking for, and the response returns its address.

The table below shows a complete list of parameters for the HTTP request:

Parameter	Description	Example
Mandatory parameters		
geocode	The address you want to geocode, or the geographical coordinates. Coordinates can be set in one of the formats described below.	Forward geocoding: geocode=Kabasakal+Caddesi,+Istanbul,+Turkey Reverse geocoding: geocode=28.98017,41.008434
Optional parameters		
kind	Type of toponym (only for reverse geocoding). List of accepted values: <ul style="list-style-type: none"> house — house or building street — street metro — subway station district — city district locality — locality (city, town, village, etc.) 	Reverse geocoding: kind=street

Parameter	Description	Example
format	<p>The format for the geocoder's response:</p> <ul style="list-style-type: none"> xml — Results are returned as a YMapsML document. json — Results are returned in JSON format. <p>Default value: xml.</p>	format=json
callback	<p>The name of the JavaScript function that the geocoder's response is returned to (in accordance with JSONP conventions).</p> <p>This parameter is accepted only if the response is returned in JSON format.</p>	callback=my_response_handler
ll,spn	<p>Geographical area for the object search.</p> <p>The search can be limited to this area, or unlimited (depending on the value of the rspn parameter). If it is not limited, using the <code>ll</code> and <code>spn</code> parameters affects the order of results output; objects that are inside this area are given priority.</p> <p>Record format</p> <p>The <code>ll</code> parameter defines the longitude and latitude of the center of the area (in degrees), while <code>spn</code> defines its range (in degrees).</p> <p>The span of the area is defined by two numbers; the first is the difference between the maximum and minimum longitude of the area, and the second is the difference between the maximum and minimum latitude.</p> <p>Reverse geocoding</p> <p>For reverse geocoding, the <code>ll</code> parameter is ignored, and <code>spn</code> is taken into account only if the <code>kind</code> parameter takes one of the following values: <code>house</code>, <code>street</code>, <code>locality</code> or <code>metro</code>.</p>	<p>Forward geocoding:</p> <pre>ll=28.98017,41.008434&spn=0.552069,0.400552</pre> <p>Reverse geocoding:</p> <pre>spn=0.552069,0.400552&kind=street</pre>
rspn	<p>Restricts the search scope to the area defined using <code>ll</code> and <code>spn</code> parameters. Possible values:</p> <ul style="list-style-type: none"> 0 — Do not restrict the search (by default). 1 — Restrict. 	rspn=1
results	<p>Maximum number of objects to be returned.</p> <p>Default value: 10.</p>	results=5
skip	<p>Number of objects in the response that should be skipped (starting from the first one). Default value: 0.</p>	skip=3
lang	<p>The preferred language for object descriptions.</p> <p>Record format</p> <p>lang=language-region, where</p> <ul style="list-style-type: none"> language — Two-letter language code. Specified in ISO 639-1 format. region — Two-letter country code. Specified in ISO 3166-1 format. 	lang=en-US

Parameter	Description	Example
	List of supported values: <ul style="list-style-type: none"> ru-RU — Russian (by default) uk-UA — Ukrainian be-BY — Belarusian en-US — American English en-BR — British English tr-TR — Turkish (only for maps of Turkey) 	

Formats for geographical coordinates

In the HTTP request to the geocoder, geographical coordinates are set using the `geocode` parameter. The coordinate values are listed sequentially and separated by a space, comma, or semicolon. In addition, any number of spaces is allowed on either side of the separators.

Note:

The ";" character should be encoded as "%3B".

To indicate the sign for coordinates, you can use the "+" and "-" symbols, or letters corresponding to the hemisphere (using the "+" symbol is optional). For example, N (Northern latitude) and E (Eastern longitude) indicate positive coordinates, while W (Western longitude) and S (Southern latitude) indicate negative coordinates.

Letters can be placed either before or after the coordinates: "N39.889847, E32.810152" or "39.889847N, 32.810152E". The letters can also be separated by a space: "N 39.889847, E 32.810152".

Request example for reverse geocoding:

```
http://geocode-maps.yandex.ru/1.x/?geocode=E134.854,S25.828&lang=en-US
```

The list below shows acceptable formats for expressing geographical coordinates:

Record format	Order of coordinates	Example
+float, +-float	Longitude, latitude	134.854, -25.828
float [direction] * , float [direction]	Any	E134.854, S25.828 134.854E, 25.828S
+deg° mm' ss", +-deg° mm' ss"	Latitude, longitude	-25°49'41.1", 134°51'15.88"
deg° mm' ss" [direction], deg° mm' ss" [direction]	Any	25°49'41.1"S, 134°51'15.88"E
NMEA	Any	2549.67,S, 13451.26,E

* [direction] — The letter designation for one of the four directions: N, E, W, S.

The geocoder returns the given coordinates in the `metaDataProperty/GeocoderResponseMetaData/Point/pos` element in the format "[longitude] [latitude]":

```
<metaDataProperty>
  <GeocoderResponseMetaData>
    <request>E134.854,S25.828</request>
    <found>1</found>
    <results>10</results>
    <Point>
      <pos>134.854412 -25.828084</pos>
    </Point>
  </GeocoderResponseMetaData>
</metaDataProperty>
```

The geocoder response

The geocoder response can be returned in the following formats:

- [XML](#).
- [JSON](#) (may be returned as an argument of a function — [JSONP](#)).

Both formats have the same structure, and the results returned are identical. For XML output, the results are shown as XML elements. For JSON, key:value pairs are used, contained in curly brackets, and groups using arrays are in square brackets. The name of the XML element is the same as the matching key in the JSON output.

If forward geocoding was performed (the coordinates were determined using the address and/or name), the results are sorted according to their similarity to the address or name that was specified in the request, and not by their geographical proximity to the first object found.

For reverse geocoding (the address was determined from the coordinates), results are sorted according to the size of the geometric area that the object belongs to, in reverse order (house number, street, district, city, and so on).

The response in XML format

By default, the geocoder response is returned in XML format. Let's look at the XML response from the service for a request containing the address of the Sultanahmet Camii in Istanbul:

```
http://geocode-maps.yandex.ru/1.x/?geocode=Sultanahmet+Camii+İç+Yolları&lang=en-US
```

Response:

```
<?xml version="1.0" encoding="utf-8"?>
<ymaps xmlns="http://maps.yandex.ru/ymaps/1.x">
  <GeoObjectCollection>
    <metaDataProperty xmlns="http://www.opengis.net/gml">
      <GeocoderResponseMetaData xmlns="http://maps.yandex.ru/geocoder/1.x">
        <geo:request xmlns:geo="http://maps.yandex.ru/geocoder/1.x">Sultanahmet
Camii İç Yolları</geo:request>
        <found>1</found>
        <results>10</results>
      </GeocoderResponseMetaData>
    </metaDataProperty>
    <featureMember xmlns="http://www.opengis.net/gml">
      <GeoObject xmlns="http://maps.yandex.ru/ymaps/1.x">
        <metaDataProperty xmlns="http://www.opengis.net/gml">
          <GeocoderMetaData xmlns="http://maps.yandex.ru/geocoder/1.x">
            <kind>street</kind>
            <text>Turkey, Istanbul, Eminönü, Sultanahmet, Sultanahmet Camii İç
Yolları</text>
            <precision>street</precision>
            <AddressDetails xmlns="urn:oasis:names:tc:ciq:xsdschema:xAL:2.0">
              <Country>
                <AddressLine xml:lang="tr">Istanbul, Eminönü, Sultanahmet,
Sultanahmet Camii İç Yolları</AddressLine>
                <CountryNameCode>TR</CountryNameCode>
                <CountryName xml:lang="tr">Turkey</CountryName>
                <AdministrativeArea>
                  <AdministrativeAreaName xml:lang="tr">Istanbul</
AdministrativeAreaName>
                  <SubAdministrativeArea>
                    <SubAdministrativeAreaName xml:lang="tr">Eminönü</
SubAdministrativeAreaName>
                  <Locality>
                    <LocalityName xml:lang="tr">Sultanahmet</LocalityName>
                    <Thoroughfare>
                      <ThoroughfareName xml:lang="tr">Sultanahmet Camii İç
Yolları</ThoroughfareName>
                    </Thoroughfare>
                  </Locality>
                </AddressDetails>
          </GeocoderMetaData>
        </metaDataProperty>
      </GeoObject>
    </featureMember>
  </GeoObjectCollection>
</ymaps>
```

```

        </SubAdministrativeArea>
      </AdministrativeArea>
    </Country>
  </AddressDetails>
</GeocoderMetaData>
</metaDataProperty>
<description xmlns="http://www.opengis.net/gml">Turkey, Istanbul,
Eminönü, Sultanahmet</description>
<name xmlns="http://www.opengis.net/gml">Sultanahmet Camii İç Yollari</
name>
<boundedBy xmlns="http://www.opengis.net/gml">
  <Envelope>
    <lowerCorner>28.975779 41.004937</lowerCorner>
    <upperCorner>28.977881 41.006761</upperCorner>
  </Envelope>
</boundedBy>
<Point xmlns="http://www.opengis.net/gml">
  <pos>28.976893 41.005808</pos>
</Point>
</GeoObject>
</featureMember>
</GeoObjectCollection>
</ymaps>

```

The geocoder response consists of a document in [YMapsML](http://maps.yandex.ru/geocoder/1.x) format, which conforms to the XML schema <http://maps.yandex.ru/geocoder/1.x>.

The `GeocoderResponseMetaData` element contains information about the request and the number of results found, while the `GeocoderMetaData` element contains the text of the request, the type of object found, information on how accurately the result matches the request, and a detailed mailing address of the object.

The `Point` element contains the coordinates of the center of the object, while the `boundedBy` element contains the boundary within which it is recommended to display the object on the map (a viewport). For most objects, the viewport is a rectangle around the object.

The response in JSON format

To get a response in JSON format, it is necessary to add the `format` parameter with the value `json`:

```
http://geocode-maps.yandex.ru/1.x/?format=json&geocode=Sultanahmet+Camii+İç
+Yollari&lang=en-US
```

In this case, the geocoder response will look like this:

Response:

```

{
  "response": {
    "GeoObjectCollection": {
      "metaDataProperty": {
        "GeocoderResponseMetaData": {
          "request": "Sultanahmet Camii İç Yolları",
          "found": "1",
          "results": "10"
        }
      },
      "featureMember": [{
        "GeoObject": {
          "metaDataProperty": {
            "GeocoderMetaData": {
              "kind": "street",
              "text": "Turkey, Istanbul, Eminönü, Sultanahmet, Sultanahmet Camii
İç Yollari",
              "precision": "street",
              "AddressDetails": {
                "Country": {
                  "AddressLine": "Istanbul, Eminönü, Sultanahmet, Sultanahmet
Camii İç Yollari",

```



```

        "CountryNameCode": "TR",
        "CountryName": "Turkey",
        "AdministrativeArea": {
            "AdministrativeAreaName": "Istanbul",
            "SubAdministrativeArea": {
                "SubAdministrativeAreaName": "Eminönü",
                "Locality": {
                    "LocalityName": "Sultanahmet",
                    "Thoroughfare": {
                        "ThoroughfareName": "Sultanahmet Camii İç Yollari"
                    }
                }
            }
        }
    },
    "description": "Turkey, Istanbul, Eminönü, Sultanahmet",
    "name": "Sultanahmet Camii İç Yollari",
    "boundedBy": {
        "Envelope": {
            "lowerCorner": "28.975779 41.004937",
            "upperCorner": "28.977881 41.006761"
        }
    },
    "Point": {
        "pos": "28.976893 41.005808"
    }
}
]]
}
}

```

JSONP

The security policies of modern browsers do not allow web pages to load data from outside servers. "Outside" means servers whose domain name does not match the domain name of the server that the page is located on. If you need to make a page that queries geocoding results, you should use JSONP technology.

When using JSONP, the server that the data is being returned to is passed the name of a function, and the results are returned as a JSON object, but as a parameter of the function with the specified name.

In order to get search results in JSONP format, it is necessary to add to the `callback` parameter the name of the function that will process results that are returned in JSON format.

So for this request

```

http://geocode-maps.yandex.ru/1.x/?
format=json&callback=my_function&geocode=Sultanahmet+Camii+İç+Yollari&lang=en-US

```

the JSON object from the previous example will be returned, but as an argument of the function `my_function`:

```
my_function({
  "response": {
    "GeoObjectCollection": {
      "metaDataProperty": {
        "GeocoderResponseMetaData": {
          "request": "Sultanahmet Camii İç Yolları",
          "found": "1",
          "results": "10"
        }
      }
    }
  }
});
```

See also[yg:GeocoderMetaData](#)[yg:GeocoderResponseMetaData](#)

Overview of the geocoder response XML schema

Namespaces used

The geocoder response consists of elements which belong to the following four XML namespaces:

Namespace	Schema URL	Documentation	Elements	Definition
ymaps	http://maps.yandex.ru/ymaps/1.x	YMapsML reference	ymaps, GeoObjectCollection, GeoObject	The language used to represent geographical data on Yandex maps.
gml	http://www.opengis.net/gml	The GML 3.1 specification	featureMember, metaDataProperty, boundedBy, Point	GML – the geography description standard.
yg	http://maps.yandex.ru/geocoder/1.x	Description of the XML schema of the geocoder response	GeocoderResponseMetaData , GeocoderMetaData	The XML schema of the geocoder response.
xal	urn:oasis:names:tc:ciq:xdschema:xAL:2.0	The xAL 2.0 specification	AddressDetails	xAL (eXtensible Address Language) is used for structuring mailing addresses in the geocoder response.

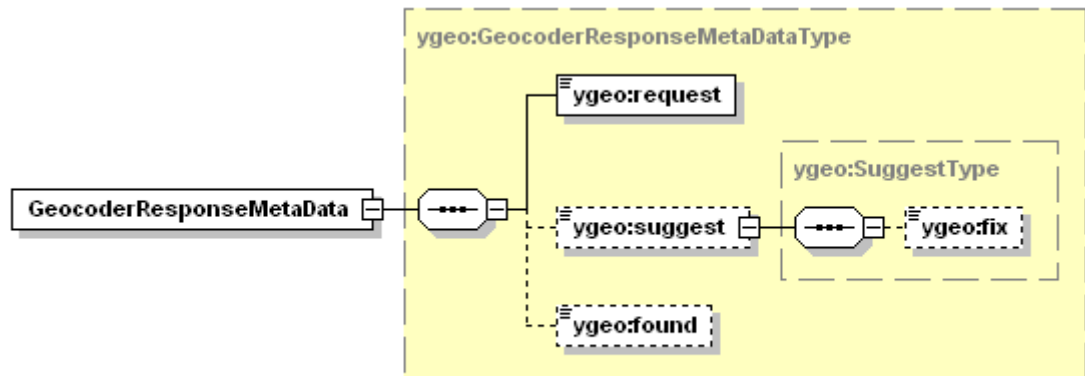
Since the geocoder response is a YMapsML document, the root element belongs to the `ymaps` namespace. In addition, this namespace includes `ymaps:GeoObjectCollection` and `ymaps:GeoObject`.

The designated geocoder namespace `yg` includes metadata elements `GeocoderResponseMetaData`, `GeocoderMetaData` and all their child elements, except `AddressDetails`. The following standard GML elements are used as well: `gml:featureMember`, `gml:metaDataProperty`, `gml:Point` and `gml:boundedBy`.

yg:GeocoderResponseMetaData

The `<yg:GeocoderResponseMetaData>` element contains data related to the request.

The element contains information about the request and the number of toponyms found.



Contains:

`yg:request`, `yg:suggest`, `yg:found`, `yg:results`, `yg:skip`

Attributes:

This tag contains no attributes.

Examples:

```

<GeocoderResponseMetaData>
  <geo:request>Yalova,Turkie</geo:request>
  <geo:suggest>Yalova,T
    <geo:fix>u</geo:fix>
  </geo:suggest>
  <found>7</found>
  <results>10</results>
</GeocoderResponseMetaData>
  
```

yg:fix

The `<yg:fix>` element contains a character corrected by the spelling service.

A character corrected by the spelling service, see the [example](#).

Contains:

This tag does not contain other tags.

Contained by:

`yg:suggest`

Attributes:

This tag contains no attributes.

Examples:

See the [example](#) for the `yg:GeocoderResponseMetaData` element.

yg:found

The `<yg:found>` element contains the number of toponyms found.

The number of toponyms found.

Contains:

This tag does not contain other tags.

Contained by:

[yg:GeocoderResponseMetaData](#)

Attributes:

This tag contains no attributes.

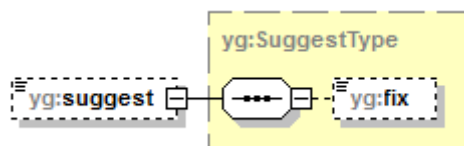
Examples:

See the [example](#) for the `yg:GeocoderResponseMetaData` element.

yg:suggest

The `<yg:suggest>` element contains a version of the request, corrected by the spelling service.

If the address was corrected by the spelling service during input, the element will contain the correct version (see the [example](#)).

**Contains:**

[yg:fix](#)

Contained by:

[yg:GeocoderResponseMetaData](#)

Attributes:

This tag contains no attributes.

Examples:

See the [example](#) for the `yg:GeocoderResponseMetaData` element.

yg:request

The `<yg:request>` element contains the requested address.

The address specified in the request.

Contains:

This tag does not contain other tags.

Contained by:

[yg:GeocoderResponseMetaData](#)

Attributes:

This tag contains no attributes.

Examples:

See the [example](#) for the `yg:GeocoderResponseMetaData` element.

yg:results

The `<yg:results>` element contains the number of required search results.

Contained by:

[yg:GeocoderResponseMetaData](#)

Attributes:

This tag contains no attributes.

Examples

See the example for the [GeocoderResponseMetaData](#) element.

yg:skip

The `<yg:skip>` element specifies how many results should be skipped (starting from the beginning of the list) in the response from the service.

Contained by:

[yg:GeocoderResponseMetaData](#)

Attributes:

This tag contains no attributes.

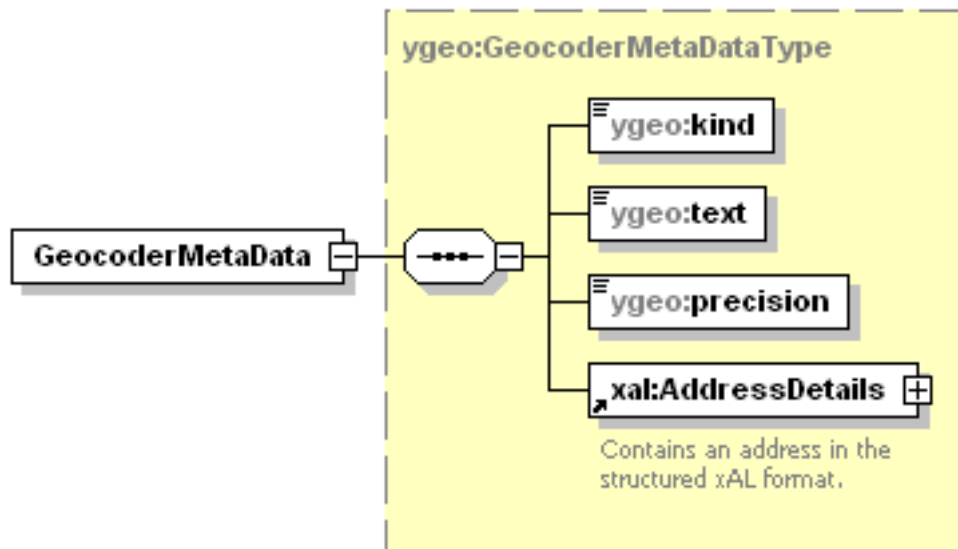
Examples

See the example for the [GeocoderResponseMetaData](#) element.

yg:GeocoderMetaData

The `<yg:GeocoderMetaData>` element contains detailed information about the toponym that was found.

Diagram



Contains:

`yg:kind`, `yg:text`, `yg:precision`, `xal:AddressDetails`

Attributes:

This tag contains no attributes.

Example

```
<GeocoderMetaData>
  <kind>locality</kind>
  <text>Türkiye, Çanakkale, Eceabat, Yalova</text>
  <precision>other</precision>
  <AddressDetails>
    <Country>
      <AddressLine>Çanakkale, Eceabat, Yalova</AddressLine>
      <CountryNameCode>TR</CountryNameCode>
      <CountryName>Türkiye</CountryName>
      <AdministrativeArea>
        <AdministrativeAreaName>Çanakkale</AdministrativeAreaName>
        <SubAdministrativeArea>
          <SubAdministrativeAreaName>Eceabat</SubAdministrativeAreaName>
          <Locality>
            <LocalityName>Yalova</LocalityName>
          </Locality>
        </SubAdministrativeArea>
      </AdministrativeArea>
    </Country>
  </AddressDetails>
</GeocoderMetaData>
```


yg:kind

The `<yg:kind>` element contains the type of toponym found.

Contains the type of toponym found (see the [table of possible values](#)).

Possible values for the `kind` element:

Value of <code>yg:kind</code>	Type of toponym found	Value of <code>yg:text</code> (example)
house	a detached house	house Türkiye, İstanbul, Kartal, Esentepe, Aydos Sokak, 32
street	street	Türkiye, İstanbul, Kartal, Esentepe, Aydos Sokak
metro	subway station	Türkiye, İstanbul, Metro Fuar Merkezi
district	city district	Türkiye, İstanbul, Kadıköy, Bostancı Mh
locality	locality: city, town, village, etc.	Türkiye, Antalya, Antalya
area	regional district (oblast)	Türkiye, İstanbul, Şişli
province	oblast, region	Türkiye, İstanbul, Şişli
country	country	Türkiye
hydro	bodies of water: river, lake, stream, reservoir, etc.	Türkiye, İstanbul, Ömerli Barajı
vegetation	forest, park, etc.	Türkiye, İstanbul, Saip Molla Özel Ormanı
airport	airport	United States, Norfolk, Airport-Norfolk International
other	any other	istanbul, Pendik, Havaalanı İç Yolları

Contains:

This tag does not contain other tags.

Contained by:

[yg:GeocoderMetaData](#)

Attributes:

This tag contains no attributes.

Examples:

See the [example](#) for the `GeocoderMetaData` element.

yg:precision

The `<yg:precision>` element contains an assessment of how accurately the toponym matches the request.

The `precision` element is used when it is necessary to geocode a request with pinpoint accuracy, such as a house number.

It is not uncommon for the address in the request to be invalid or incomplete, for a house with a specified number not to exist, or for a house that has been built recently not to be marked on the map. In such cases, the geocoder returns the closest result (by address) — namely, a house on the same side of the street that has the number that is closest to the requested number. The `precision` element will contain information about the degree of discrepancy between the request and the result (see the [table of possible values](#)).

If the difference between the house numbers exceeds 10, then instead of the nearest house, the geocoder returns an object that describes the street.

Possible values of the `precision` element:

yg:precision	The house number as provided in the request	The house number in the best matching result	Comment
exact	27, unit 1	27c1	Exact match.
number	31, building 4	31 building 2	Only the house number matches.
near	16/3	18	The house number does not match, but a house nearby is found (as $18-16 < 10$).
street	18	4	Only the street name matches (as $18-4 > 10$).
other	22	—	The street name does not match but a village, district, etc. matches.

Contains:

This tag does not contain other tags.

Contained by:

[yg:GeocoderMetaData](#)

Examples:

See the [example](#) for the `GeocoderMetaData` element.

yg:text

The `<yg:text>` element contains the full mailing address of a toponym in a single text string.

The full mailing address of a toponym in a single text string.

Contains:

This tag does not contain other tags.

Contained by:

[yg:GeocoderMetaData](#)

Attributes:

This tag contains no attributes.

Examples:

See the [example](#) for the GeocoderMetaData element.

Examples

Basic search by name

The request “Sultanahmet Camii İç Yolları”: <http://geocode-maps.yandex.ru/1.x/?geocode=Sultanahmet+Camii+İç+Yolları&lang=en-US>.

The same request, but for getting results as JSON output: <http://geocode-maps.yandex.ru/1.x/?format=json&geocode=Sultanahmet+Camii+İç+Yolları&lang=en-US>.

The request “Cinci Meydanı Sokak, Küçük Ayasofya, Eminönü, İstanbul, Türkiye”: <http://geocode-maps.yandex.ru/1.x/?geocode=Cinci+Meydanı+Sokak,Küçük+Ayasofya,Eminönü,İstanbul,Türkiye&lang=en-US>.

The request “Yalova”: <http://geocode-maps.yandex.ru/1.x/?geocode=Yalova&lang=en-US>.

A request with a spelling mistake “Stanbul”, and the correction of the typo in the response: <http://geocode-maps.yandex.ru/1.x/?geocode=Stanbul&lang=en-US>.

Searching for objects in a specific region

If a region to search in is specified in the request, then the first results shown will be those objects that are closest to this region, for example: <http://geocode-maps.yandex.ru/1.x/?geocode=Yalova&ll=29.270485,40.65731&spn=2.5,2.5&lang=en-US>.

Restricting the number of results in the response

Some requests may correspond to several objects. In the request for the geocoder, the desired amount of objects to output can be specified, as well as the number of the first one of them.

The request “Yalova”, first five results: <http://geocode-maps.yandex.ru/1.x/?geocode=Yalova&results=1&lang=en-US>.

The request “Yalova”, two results, starting from the 6th: <http://geocode-maps.yandex.ru/1.x/?geocode=Yalova&results=2&skip=5&lang=en-US>.

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Geocoding

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