

[Apple Maps Server API](#) / Search for directions and estimated travel time between locations

Web Service Endpoint

Search for directions and estimated travel time between locations

Find directions by specific criteria.

Apple Maps Server API 1.2+

URL

GET `https://maps-api.apple.com/v1/directions`

Query Parameters

origin string	(Required) The starting location as an address, or coordinates you specify as latitude, longitude. For example, <code>origin=37.7857,-122.4011</code>
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destination string	(Required) The destination as an address, or coordinates you specify as latitude, longitude. For example, <code>destination=San Francisco City Hall, CA</code>
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arrivalDate string	The date and time to arrive at the destination in ISO 8601 format in UTC time. For example, <code>2023-04-15T16:42:00Z</code> .
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You can specify only `arrivalDate` or `departureDate`. If you don't specify either option, the `departureDate` defaults to *now*, which the server interprets as the current time.

avoid [DirectionsAvoid]	A comma-separated list of the features to avoid when calculating direction routes. For example, <code>avoid=Tolls</code> .
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See [DirectionsAvoid](#) for a complete list of possible values.

departureDate
string

The date and time to depart from the origin in ISO 8601 format in UTC time. For example, 2023-04-15T16:42:00Z.

You can only specify `arrivalDate` or `departureDate`. If you don't specify either option, the `departureDate` defaults to *now*, which the server interprets as the current time.

lang
[Lang](#)

The language the server uses when returning the response, specified using a BCP 47 language code. For example, for English, use `lang=en-US`.
Default: `en-US`

**requestsAlternate
Routes**
boolean

When you set this to `true`, the server returns additional routes, when available. For example, `requestsAlternateRoutes=true`.
Default: `false`

searchLocation
[SearchLocation](#)

A `searchLocation` the app defines as a hint for the query input for origin or destination. Specify the location as a comma-separated string that contains the latitude and longitude. For example, `37.7857,-122.4011`.

If you don't provide a `searchLocation`, the server uses `userLocation` and `searchLocation` as fallback hints.

searchRegion
[SearchRegion](#)

A region the app defines as a hint for the query input for origin or destination. Specify the region as a comma-separated string that describes the region in the form of a north-latitude, east-longitude, south-latitude, west-longitude string. For example, `38,-122.1,37.5,-122.5`.

If you don't provide a `searchLocation`, the server uses `userLocation` and `searchRegion` as fallback hints.

transportType
string

The mode of transportation the server returns directions for.
Default: `Automobile`
Possible Values: `Automobile`, `Walking`, `Cycling`

userLocation
[UserLocation](#)

The location of the user, specified as a comma-separated string that contains the latitude and longitude. For example, `userLocation=37.78,-122.42`.

If you don't provide a `searchLocation`, the server uses `userLocation` and `searchRegion` as fallback hints.

Response Codes

200
[DirectionsResponse](#)

OK
Returns a [DirectionsResponse](#) result that describes the steps and routes from the origin to the destination.
Content-Type: `application/json`

400 **Bad Request**

ErrorResponse

An ErrorResponse object that contains an error message and an array of strings that contain additional details about the error.

Content-Type: application/json

401

ErrorResponse

Unauthorized

An ErrorResponse object that contains an error message that indicates the Maps access token is missing or invalid, and an array of strings that contains additional details about the error.

Content-Type: application/json

429

ErrorResponse

An ErrorResponse object that indicates the call exceeds the daily service call quota for the authorization token. The app can try again later. If your app requires a larger daily quota, submit a [quota increase request form](#).

Content-Type: application/json

500

ErrorResponse

Internal Server Error

An ErrorResponse object that contains a server error message and an array of strings that describe additional details about the error.

Content-Type: application/json

Discussion

Example

Request Response

```
curl -si -H "Authorization: Bearer <maps_access_token>" \
"https://maps-api.apple.com/v1/directions?origin=37.7857,-122.4011&destination=San F
```

See Also

Directions

Determine estimated arrival times and distances to one or more destinations

Returns the estimated time of arrival (ETA) and distance between starting and ending locations.