

## □ Documentation

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[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+

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## URL

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

## Query Parameters

**origin**      **Required** The starting location as an address, or coordinates you specify as latitude, longitude. For example, `origin=37.7857,-122.4011`

**destination**      **Required** The destination as an address, or coordinates you specify as latitude, longitude. For example, `destination=San Francisco City Hall, CA`

**arrivalDate**      The date and time to arrive at the destination in ISO 8601 format in UTC time. For example, `2023-04-15T16:42:00Z`.

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**      A comma-separated list of the features to avoid when calculating direction routes. For example, `avoid=Tolls`.

See [DirectionsAvoid](#) for a complete list of possible values.

<b>departureDate</b>	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 <i>now</i> , which the server interprets as the current time.
<b>lang</b>	The language the server uses when returning the response, specified using a BCP 47 language code. For example, for English, use lang=en-US.
<a href="#">Lang</a>	Default: en-US
<b>requestsAlternateRoutes</b>	When you set this to true, the server returns additional routes, when available. For example, requestsAlternateRoutes=true.
<a href="#">Routes</a>	Default: false
<b>searchLocation</b>	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.
<a href="#">SearchLocation</a>	If you don't provide a searchLocation, the server uses userLocation and searchLocation as fallback hints.
<b>searchRegion</b>	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.
<a href="#">SearchRegion</a>	If you don't provide a searchLocation, the server uses userLocation and searchRegion as fallback hints.
<b>transportType</b>	The mode of transportation the server returns directions for.
<a href="#">string</a>	Default: Automobile Possible Values: Automobile, Walking, Cycling
<b>userLocation</b>	The location of the user, specified as a comma-separated string that contains the latitude and longitude. For example, userLocation=37.78,-122.42.
<a href="#">UserLocation</a>	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

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

### 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.