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# Introduction

The Browse Grid Service provides a grid view of flight and price data for specific outbound and inbound month date ranges. The prices returned contain the cheapest prices for each combination of outbound and inbound date pairs from our cache data.

# Query Types

Examples of questions that can be answered are:

* Find me the cheapest prices from Edinburgh to London for all days in January. This gives the cheapest price for each day in January.
* Find me the cheapest prices from Edinburgh to London departing in January and returning in February. This gives the cheapest prices for combination of all days in January with all days in February.

### Limited Service

Initially access will be granted to a limited version of the service for evaluation. This will be fully featured with access to live data, but limited to one route and a predetermined set of dates.

# Query details

## Request Format

The service takes the form of an HTTP GET request.

The data will be returned in XML format by default. An HTTP Accept header value of ‘application/json’ should be specified to return data in JSON format.

The X-Forwarded-For header must be included with the end user’s IP address. Unless agreed in advance, Skyscanner will be performing robot detection and reserves the right to suspend access to the service without prior notification.

#### URL Format

http://partners.api.skyscanner.net/apiservices/browsegrid/v1.0/{country}/{currency}/{locale}/{originPlace}/{destinationPlace}/{outboundPartialDate}/{inboundPartialDate}?apiKey={apiKey}

#### Parameters (URL / Querystring / Form)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Required** | **Description** | **Data Type** | **Constraints** |
| country | Yes | The user’s market country | String | Skyscanner country code |
| currency | Yes | The user’s selected currency | String | ISO currency code |
| locale | Yes | The user’s selected language | String | ISO locale code |
| originPlace | Yes | The origin place for the search | String | Skyscanner place code |
| destinationPlace | Yes | The destination place for the search | String | Skyscanner place code |
| outboundPartialDate | Yes | The outbound date | String | Valid partial date |
| inboundPartialDate | No | The inbound date | String | Valid partial date |
| apiKey | Yes | The assigned client api key | String |  |

#### Skyscanner Country Code

These are <http://en.wikipedia.org/wiki/ISO_3166-1>.

#### ISO Currency Code

For example ‘GBP’, ‘USD’ etc. Only a subset of global currencies is supported. A reference service is available to display supported currencies. Please see the Reference Service - Technical Documentation.

#### ISO Locale Code

For example ‘en-GB’. Only a subset of languages is supported. A reference service is available to display supported currencies. Please see the Reference Service - Technical Documentation.

#### Skyscanner Place Code

This can be one of:

* An Airport Code – e.g. ‘LHR’. IATA airport codes are accepted.
* A City Code – e.g. ‘LON‘. IATA city codes are accepted, as well as Skyscanner 4 letter city codes.

Valid Date Range

Specific month in ISO format – e.g. ‘YYYY-MM’

The return date can be omitted for a one-way search.

The return date must not be before the departure date range.

## 

# Response Details

### Http Response Codes

|  |  |
| --- | --- |
| **Code** | **Reason** |
| 200 | **Success** |
| 400 | **Bad Request** – input validation failed. |
| 403 | **Forbidden** – The API key was not supplied, or it was invalid, or it is not authorized to access the service. |
| 500 | **Server Error** – An internal server error has occurred which has been logged. |

### The Response

|  |  |
| --- | --- |
| **Element** | **Details** |
| Dates | Contains a two-dimensional array containing all possible combinations of outbound and inbound dates. Each element of an array contains a list of journey options for the chosen dates, consisting of a list of quotes and a price of the cheapest of these options. |
| Quotes | The cheapest Quote for each date period, with price, and either outbound or inbound journey details, or both. |
| Places | A normalized cross reference lookup of Place information. |
| Carriers | A normalized cross reference lookup of Carrier (operator) information, used by the quotes. |
| Urls | Links to other services. These include DrillDown to move to the next more specific query. |

### Combining Quotes

For a return search quotes can be one of three types:

* Outbound only,
* Inbound only or
* Return.

If a quote has both outbound and inbound leg information it is a return quote. Return quotes can only be used on the pair of dates specified. However, any outbound quote can be combined with any inbound quote to make a return journey.

The reason for this is because there are two different pricing model used by different airlines.

### Code Schemas

The response will contain codes which reference places. These codes are internal representations of various codes schemas that can be used in calls to the services. These codes may change without notice and should not be used except to reference places for the next step in the flight funnel.

## 

# Example Requests/Responses

### Return search

|  |
| --- |
| **Request - http://partners.api.skyscanner.net/apiservices/browsegrid/v1.0/GB/GBP/en-GB/LON/JFK/2012-01/2012-02** |
| |  |  | | --- | --- | | country | GB | | currency | GBP | | locale | en-GB | | originPlace | LON | | destinationPlace | JFK | | outboundPartialDate | 2012-01 | | inboundPartialDate | 2012-02 | |
| **Response** |
| |  |  | | --- | --- | | Dates | "Dates":[[null,{"DateString":"2012-01-01"},{"DateString":"2012-01-02"},{"DateString":"2012-01-03"},{"DateString":"2012-01-04"},{"DateString":"2012-01-05"},{"DateString":"2012-01-06"},{"DateString":"2012-01-07"},{"DateString":"2012-01-08"},{"DateString":"2012-01-09"},{"DateString":"2012-01-10"},{"DateString":"2012-01-11"},{"DateString":"2012-01-12"},{"DateString":"2012-01-13"},{"DateString":"2012-01-14"},{"DateString":"2012-01-15"},{"DateString":"2012-01-16"},{"DateString":"2012-01-17"},{"DateString":"2012-01-18"},{"DateString":"2012-01-19"},{"DateString":"2012-01-20"},{"DateString":"2012-01-21"},{"DateString":"2012-01-22"},{"DateString":"2012-01-23"},{"DateString":"2012-01-24"},{"DateString":"2012-01-25"},{"DateString":"2012-01-26"},{"DateString":"2012-01-27"},{"DateString":"2012-01-28"},{"DateString":"2012-01-29"},{"DateString":"2012-01-30"},{"DateString":"2012-01-31"}],[{"DateString":"2012-02-01"},{"MinPrice":667.27},{"MinPrice":642.15},{"MinPrice":625.11},{"MinPrice":620.35},{"MinPrice":671.88},{"MinPrice":642.15},{"MinPrice":667.09},{"MinPrice":555.58},{"MinPrice":652.82},{"MinPrice":666.82},{"MinPrice":540.02},null,{"MinPrice":718.51},{"MinPrice":621.30},{"MinPrice":556.29},{"MinPrice":628.80},{"MinPrice":628.80},{"MinPrice":579.12},{"MinPrice":668.51},null,{"MinPrice":622.84},{"MinPrice":570.26},{"MinPrice":617.84},{"MinPrice":631.84},{"MinPrice":574.47},null,null,{"MinPrice":556.15},{"MinPrice":560.37},{"MinPrice":617.84},null],… } | | Quotes | "Quotes":[{"QuoteId":1,"MinPrice":396.95,"Direct":false,"OutboundLeg":{"CarrierIds":[1923],"OriginId":65698,"DestinationId":60987,"DepartureDate":"2013-01-01T00:00:00"}},{"QuoteId":2,"MinPrice":371.83,"Direct":false,"OutboundLeg":{"CarrierIds":[229,1923],"OriginId":82398,"DestinationId":60987,"DepartureDate":"2013-01-02T00:00:00"}},{"QuoteId":3,"MinPrice":354.79,"Direct":false,"OutboundLeg":{"CarrierIds":[1050,1923],"OriginId":65655,"DestinationId":60987,"DepartureDate":"2013-01-03T00:00:00"}},…] | | Places | "Places":[{"PlaceId":60987,"Name":"New York John F Kennedy","Type":"Station"},{"PlaceId":65655,"Name":"London Gatwick","Type":"Station"},{"PlaceId":65698,"Name":"London Heathrow","Type":"Station"},{"PlaceId":82398,"Name":"London Stansted","Type":"Station"}] | | Carriers | "Carriers":[{"CarrierId":229,"Name":"germanwings"},{"CarrierId":1050,"Name":"easyJet"},{"CarrierId":1923,"Name":"TUIfly"}] | | FollowOnUrl | "FollowOnUrl":{"Uri":"/apiservices/pricing/v1.0","Body":"originplace=LOND-sky&destinationplace=JFK-sky&outbounddate=(outboundDate)&inbounddate=(inboundDate)&country=GB&locale=en-GB&currency=GBP","Method":"POST"} | |

### One-way search

|  |
| --- |
| **Request** **- http://partners.api.skyscanner.net/apiservices/browsegrid/v1.0/GB/GBP/en-GB/LON/JFK/2012-03** |
| |  |  | | --- | --- | | country | GB | | currency | GBP | | locale | en-GB | | originPlace | LON | | destinationPlace | JFK | | outboundPartialDate | 2012-03 | | inboundPartialDate |  | |
| **Response** |
| |  |  | | --- | --- | | Dates | "Dates":[[null,{"DateString":"2012-03-01"},{"DateString":"2012-03-02"},{"DateString":"2012-03-03"},{"DateString":"2012-03-04"},{"DateString":"2012-03-05"},{"DateString":"2012-03-06"},{"DateString":"2012-03-07"},{"DateString":"2012-03-08"},{"DateString":"2012-03-09"},{"DateString":"2012-03-10"},{"DateString":"2012-03-11"},{"DateString":"2012-03-12"},{"DateString":"2012-03-13"},{"DateString":"2012-03-14"},{"DateString":"2012-03-15"},{"DateString":"2012-03-16"},{"DateString":"2012-03-17"},{"DateString":"2012-03-18"},{"DateString":"2012-03-19"},{"DateString":"2012-03-20"},{"DateString":"2012-03-21"},{"DateString":"2012-03-22"},{"DateString":"2012-03-23"},{"DateString":"2012-03-24"},{"DateString":"2012-03-25"},{"DateString":"2012-03-26"},{"DateString":"2012-03-27"},{"DateString":"2012-03-28"},{"DateString":"2012-03-29"},{"DateString":"2012-03-30"},{"DateString":"2012-03-31"}],[null,{"MinPrice":266.25},null,{"MinPrice":376.08},{"MinPrice":361.08},{"MinPrice":286.09},{"MinPrice":354.83},{"MinPrice":274.2},{"MinPrice":308.8},{"MinPrice":370.16},{"MinPrice":379.83},{"MinPrice":364.83},{"MinPrice":362.44},{"MinPrice":362.44},{"MinPrice":355.97},{"MinPrice":355.97},{"MinPrice":476.62},{"MinPrice":377.66},{"MinPrice":360.6},{"MinPrice":358.21},{"MinPrice":516.59},{"MinPrice":358.93},{"MinPrice":407.95},{"MinPrice":445.16},{"MinPrice":448.84},{"MinPrice":441.94},{"MinPrice":417.74},{"MinPrice":499.16},{"MinPrice":420.13},{"MinPrice":419.96},null} | | Quotes | "Quotes":[{"QuoteId":1,"MinPrice":266.25,"Direct":false,"OutboundLeg":{"CarrierIds":[1050,1923],"OriginId":65655,"DestinationId":60987,"DepartureDate":"2013-03-01T00:00:00"}},{"QuoteId":2,"MinPrice":376.08,"Direct":false,"OutboundLeg":{"CarrierIds":[229,1923],"OriginId":82398,"DestinationId":60987,"DepartureDate":"2013-03-03T00:00:00"}},{"QuoteId":3,"MinPrice":361.08,"Direct":false,"OutboundLeg":{"CarrierIds":[229,1923],"OriginId":82398,"DestinationId":60987,"DepartureDate":"2013-03-04T00:00:00"}},…] | | Places | "Places":[{"PlaceId":60987,"Name":"New York John F Kennedy","Type":"Station"},{"PlaceId":65655,"Name":"London Gatwick","Type":"Station"},{"PlaceId":65698,"Name":"London Heathrow","Type":"Station"},{"PlaceId":82398,"Name":"London Stansted","Type":"Station"}] | | Carriers | "Carriers":[{"CarrierId":229,"Name":"germanwings"},{"CarrierId":1050,"Name":"easyJet"},{"CarrierId":1923,"Name":"TUIfly"}] | | FollowOnUrl | "FollowOnUrl":{"Uri":"/apiservices/pricing/v1.0","Body":"originplace=LOND-sky&destinationplace=JFK-sky&outbounddate=(outboundDate)&country=GB&locale=en-GB&currency=GBP","Method":"POST"}} | |