

EX1022

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API Keys

API Keys for Map and Geocoding Vendors

photoools.com supports different **map vendors** for the geocoding and mapping features included in IMatch and IMatch Anywhere™.

This gives our users more flexibility. We don't want to force you to use a specific vendor to geocode your images.
Privacy issues, local availability in your country and other factors must be taken into account when choosing a map provider.

The following map vendors are supported in our products at this time:

OpenStreetMap	OpenStreetMap is a free service with maps released under the Open Database License. IMatch and IMatch Anywhere WebViewer uses this map by default. Please consider a donation to support the project and to keep it free.	
	Website	https://www.openstreetmap.org
	License and usage	https://www.openstreetmap.org/copyright

Google Maps	Google Maps is a commercial web service of Google Inc. <table border="1" data-bbox="492 191 1416 417"> <tr> <td>Website</td><td>https://maps.google.com</td></tr> <tr> <td>License and usage</td><td>https://developers.google.com/maps/faq</td></tr> </table> To enable Google Maps you need an API key. See below for details. This key is also used for reverse geocoding.	Website	https://maps.google.com	License and usage	https://developers.google.com/maps/faq
Website	https://maps.google.com				
License and usage	https://developers.google.com/maps/faq				
Bing Maps	Bing Maps is a commercial web service of the Microsoft Corporation. <table border="1" data-bbox="492 741 1416 970"> <tr> <td>Website</td><td>https://www.bing.com/maps</td></tr> <tr> <td>License and usage</td><td>https://www.bingmapsportal.com/</td></tr> </table> To enable Bing Maps you need an API key. See below for details.	Website	https://www.bing.com/maps	License and usage	https://www.bingmapsportal.com/
Website	https://www.bing.com/maps				
License and usage	https://www.bingmapsportal.com/				
HERE Maps	HERE is a commercial web service of HERE. <table border="1" data-bbox="492 1245 1208 1474"> <tr> <td>Website</td><td>https://www.here.com</td></tr> <tr> <td>License and usage</td><td>https://legal.here.com</td></tr> </table> Older HERE apps (before 2020) used an App-Id and App-Code for authentication. Since 2020 here uses API keys. IMatch 2020 supports both methods. See below for more info.	Website	https://www.here.com	License and usage	https://legal.here.com
Website	https://www.here.com				
License and usage	https://legal.here.com				
GeoNames.org	GeoNames is a free/commercial geocoding service. Please consider a donation to support the project.				

Website	https://geonames.org
Create Account:	https://www.geonames.org/login
License and usage	https://www.geonames.org/about.html

To use GeoNames.org you should use your own user name. See below for details.

Important

Don't forget to enable your user name for the free web service, else it will not work.

Go to **Manage Account** after logging in and click on the **activate link** at the bottom (the text is quite small).

API Keys

Most map providers require a user name / password or an *API key* before they give an application access their resources. photools.com provides the apps/features to use these services, but we cannot afford to pay for the Google/Bing API usage of our users.

Free Usage

For low-volume private use the API keys are usually free of charge and give you plenty of 'calls' per day. The vendors just want to protect their resources from abuse. At the time of writing, a free API key usually gives you more than 10,000 map 'calls' per day – which is plenty for private use.

Applying Your API key

After requesting an API key, you enter it into the appropriate setting in IMatch (*Edit > Preferences & Geo and Maps*) or IMatch Anywhere WebViewer (*Settings screen*). IMatch and IMatch Anywhere WebViewer then take care for the rest and enable all related features.

Google Maps

To request your API key, visit this page:

<https://developers.google.com/maps/documentation/javascript/get-api-key>

Reverse Geocoding/Searching with Google

If you want to perform **reverse** geocoding via Google (See *Edit > Preferences > Geo & Maps* in IMatch) you need to provide a Google API key which has the APIs

- *Geocoding*

enabled. This is also required when you want to **search using Google in the Map Panel**.

Using Google Maps in the Map Panel

Enable these two APIs for your project:

- Maps Elevation API
- Maps Javascript API

this allows IMatch to load maps and run the JavaScript code which makes Google Maps work.

NOTE: You also **need to enable payment** for your project (e.g., add a credit card). Even if you never exceed your free monthly quota, Google requires a payment method before enabling the API access. If Google Maps is not working (Showing *"For Development only"* or similar) you did not enable payment for your account.

Bing Maps API Key

To request your API key, visit this page: <https://www.bingmapsportal.com/> Click on the Sign In button and follow the instructions.

HERE App-Id and App-Code (Legacy)

It's easy to get your free developer account and key. Visit the HERE developer site at <https://developers.here.com> and click on GET STARTED FOR FREE.

After entering your email and selecting a password, you will be prompted to create a new project. Do this. This gives you a free monthly usage quota and produces an **App-Id** and **App-**

Code. Enter them in IMatch under Edit > Preferences > Geo & Maps to use HERE Maps in the Map Panel. Just concatenate the App-Id and App-Code in the dialog like this: <YOUR APP-ID>: <YOUR APP-CODE>.

You need an **REST API KEY**. Not JavaScript.

HERE API Keys

It's easy to get your free developer account and key. Visit the HERE developer site at <https://developers.here.com> and click on GET STARTED FOR FREE.

After entering your email and selecting a password, you will be prompted to create a new project. Do this. This gives you a free monthly usage quota and produces an **API Key** you can use with **IMatch 2020 and later**. Enter the key in IMatch under Edit > Preferences > Geo & Maps to use HERE Maps in the Map Panel.

You need an **REST API KEY**. Not JavaScript.

GeoNames.org User Name

GeoNames is a free service, provided by volunteers. Consider a [donation](#).

If you want to perform **reverse** geocoding using GeoNames.org in IMatch, please get yourself a free GeoNames user account. The daily limits are generous and the user account is free.

To get a user name, just follow the instructions on this page: <https://www.geonames.org/login>.

Don't forget to **enable your account for the free web service**, else it will not work.

photools.com is a leading developer of Digital Asset Management (DAM) software.

Since 1998 we have been developing software for managing, organizing and cataloging images, videos and other digital assets for professional and amateur photographers, photo agencies, artists, scientists, corporate, institutional and governmental users.

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