
Artificial Intelligence

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Introduction

Photo Supreme is a tool that helps you organize and manage your image files by sorting them into categories. To make the cataloging process easier, it includes artificial intelligence (AI) features that can analyze your photos and suggest labels, identify objects, landmarks, or even faces.

Photo Supreme offers four types of AI capabilities:

1. **Built-in AI features:** These are ready to use as soon as you install the software and include tools like face detection and recognition.
2. **OpenAI Platform features:** Powered by the same technology as ChatGPT, OpenAI adds tools like metadata descriptions and suggestions for catalog labels.
3. **Google Gemini Platform features:** As an alternative to OpenAI, powered by Google's Gemini models, the platform adds tools for metadata descriptions and catalog label suggestions.
4. **Ollama Platform features:** Like OpenAI, Ollama provides tools like metadata descriptions and catalog label suggestions, with a focus on private AI solutions.
5. **Google Vision Platform features:** Expands the functionality with advanced tools like label detection, object recognition, landmark identification, and text extraction.

To use the OpenAI, Google Gemini or Google Vision features, you'll need to set up your own API key on their platform. Detailed instructions for setting this up are available in the setup manuals, which you can find in ? icon of the left sidebar of the application. For more information on choosing between OpenAI, Google Gemini and Ollama, refer to the guide included in this manual.

Face Detection and Face Recognition

Face Detection and Face Recognition are built-in features of Photo Supreme. They're ready to use immediately after installation: no need for an OpenAI or Google API key. Face Detection and Face Recognition are local features that process images directly on the device.

- **Face Detection** spots areas in an image that look like faces.
- **Face Recognition** identifies who those faces belong to by matching them to known individuals.

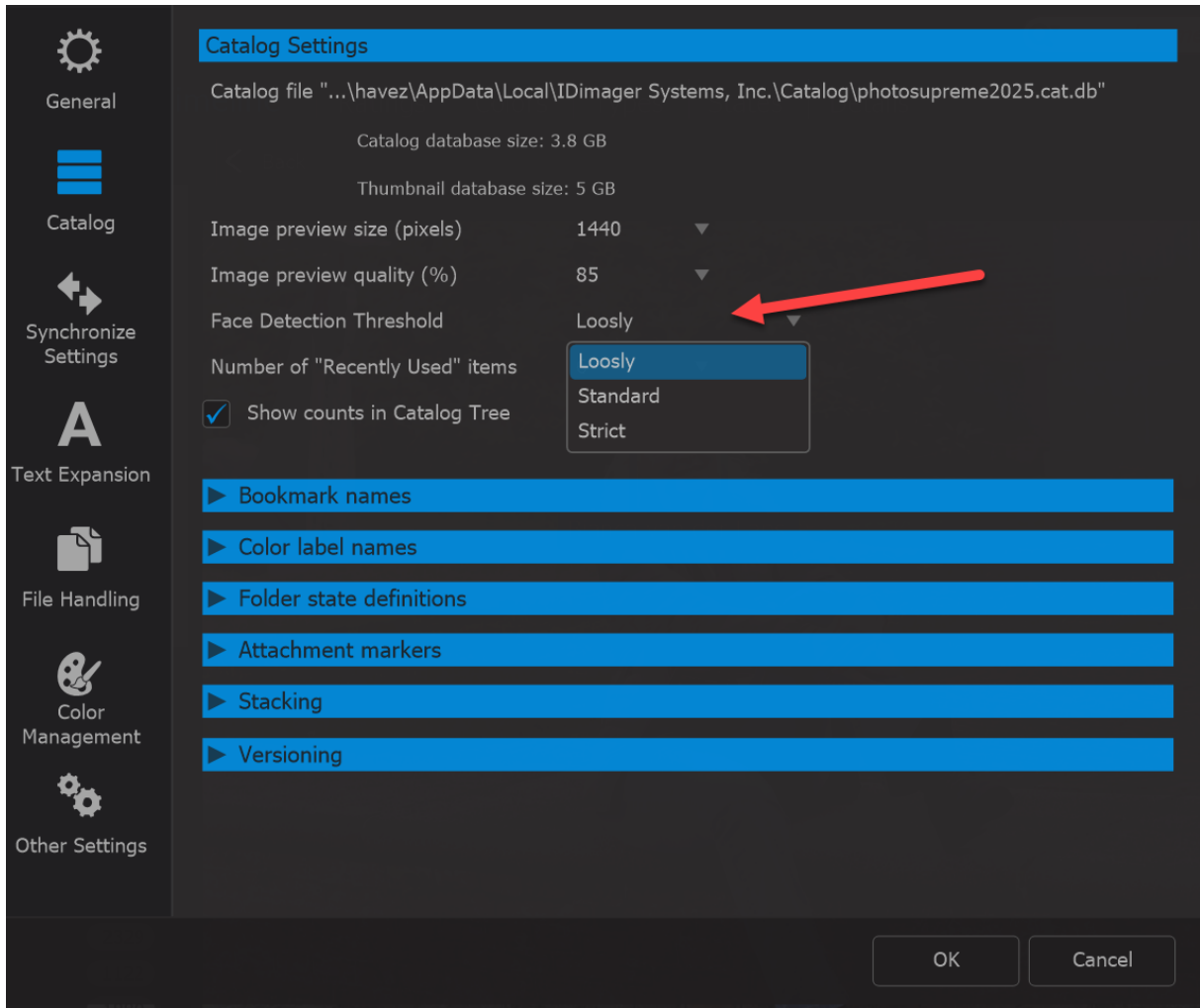
In Photo Supreme, face detection and recognition work together automatically. When you turn on this feature, the program first looks for any faces in your photo. Then, it tries to match those faces with people already saved in your catalog.

You can adjust how sensitive this face detection is in the Preferences under the Catalog section. There are three options: Loosely, Standard, and Strict.

- **Loosely** finds more faces, but it might sometimes think it sees a face when it doesn't.
- **Standard** is a balance between the two.

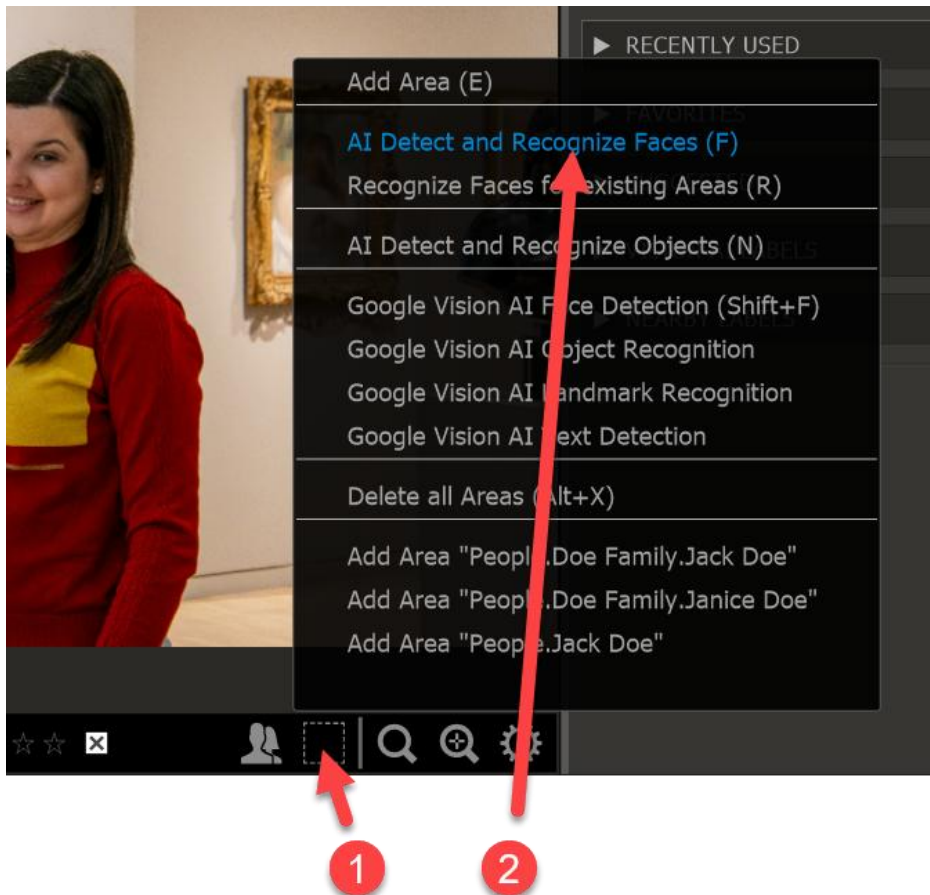
- **Strict** is more careful and makes fewer mistakes, but it might miss some faces.

By default, it's set to **Loosely** to catch as many faces as possible.



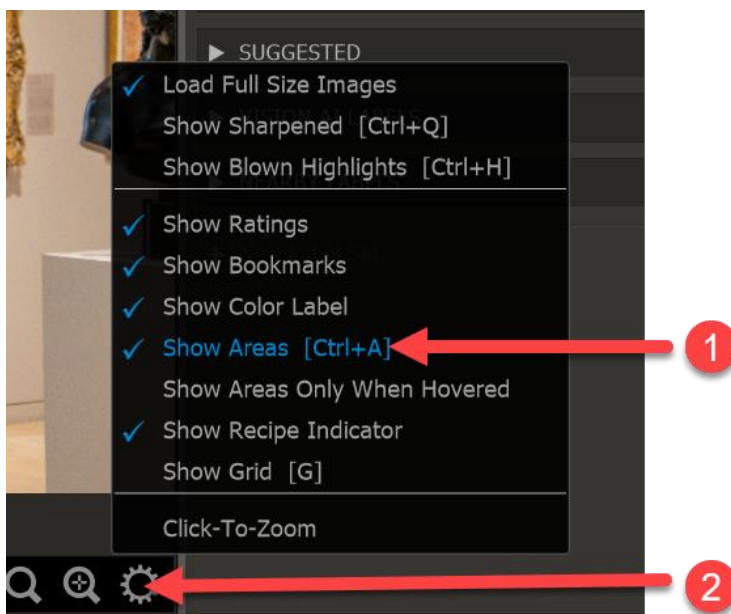
To use Face Recognition, open an image in the Image Viewer, then choose "**AI Detect and Recognize Faces**" from the menu or simply press the **F** key on your keyboard.¹

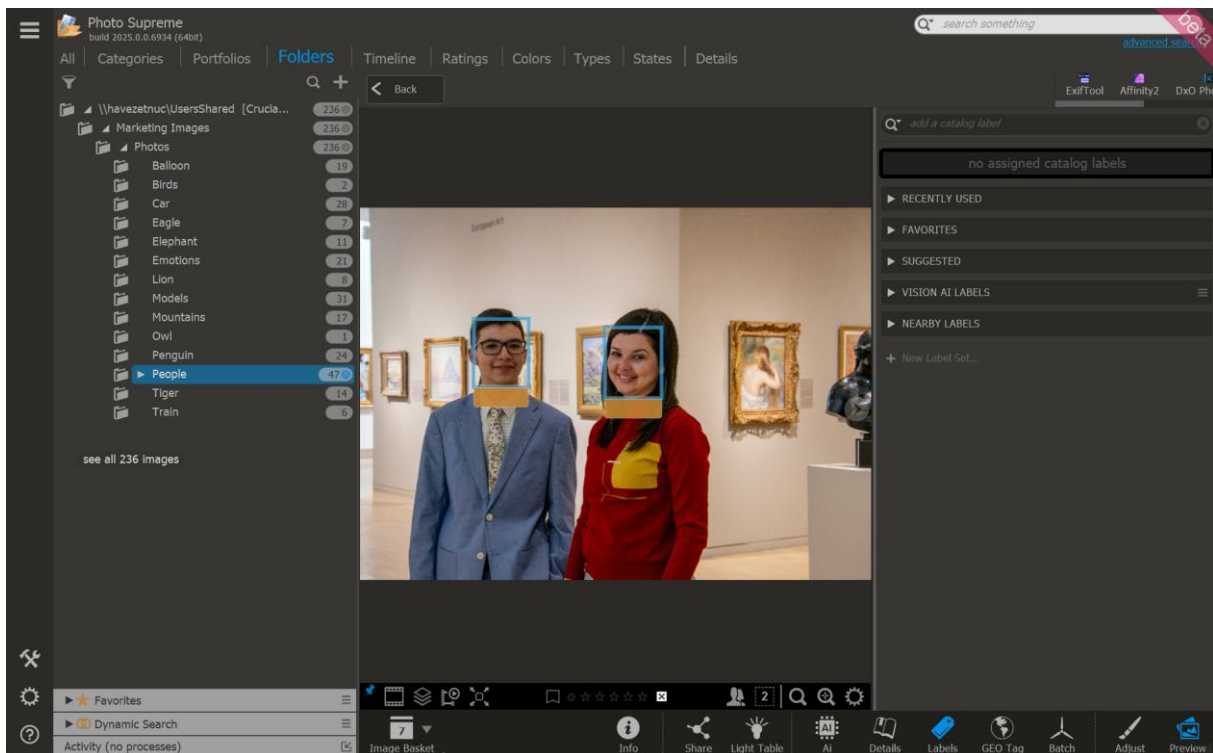
¹ All people photos by [Gabriel Tovar](#) on [Unsplash](#); all names of the persons in the images are fictional



If you're using this feature for the first time, the detected faces won't be identified yet because the AI engine hasn't learned to recognize individuals.

Tip: If you don't see the **Areas** button below the image, make sure the area display is turned on. You can enable it by going to **Options > Show Areas**.

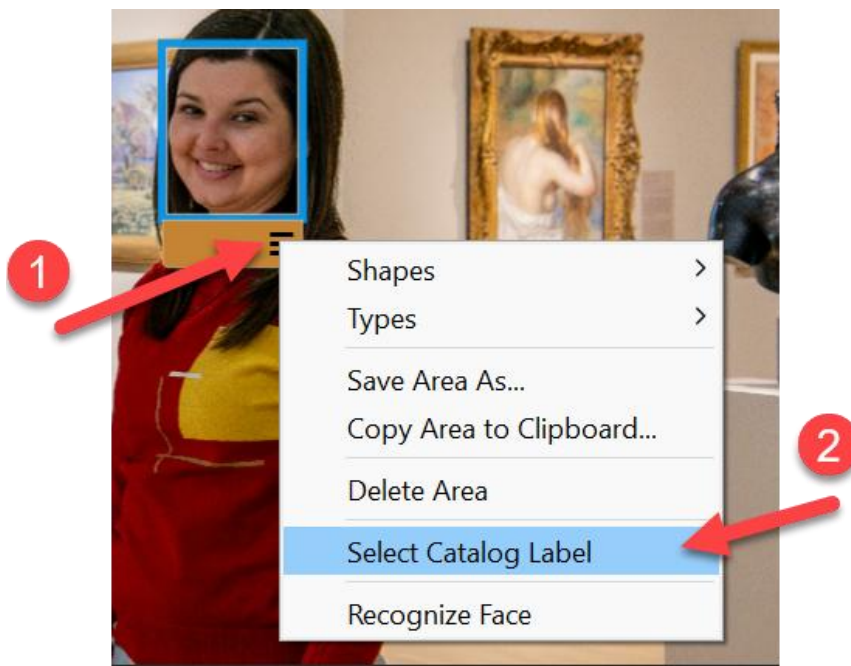




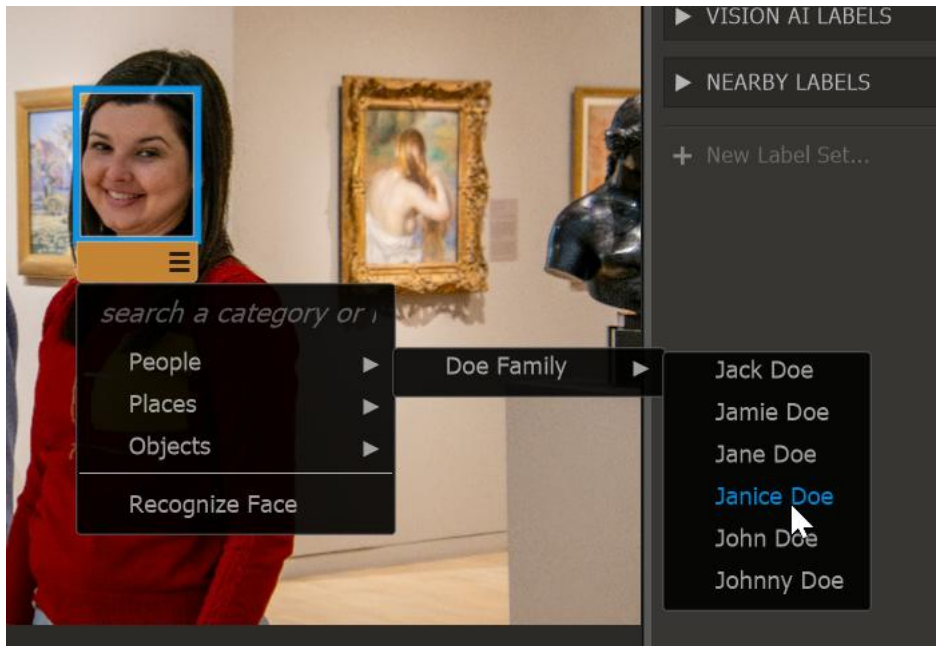
At first, no names will appear under the detected faces. Face areas are highlighted if they are automatically detected.

Tip: If the software misses a face, you can add it manually. To do this, hold the **Alt** key (or **Opt** key on macOS) and drag a box around the face on the image.

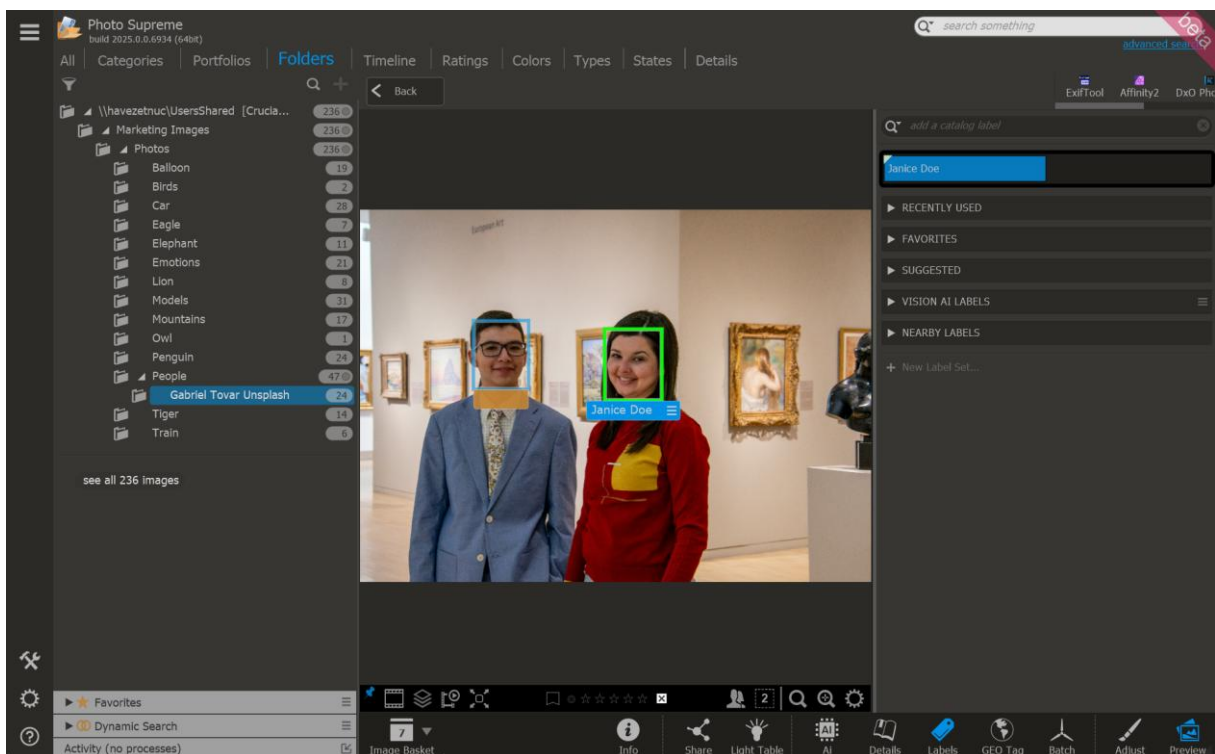
To tell the software who a face belongs to, assign a name (called a **Catalog Label**) to the highlighted area. Once you do this, the software will start recognizing that person automatically in future images.



You can then either manually enter the person's name or select it from the drop-down menu.



The face is now confirmed as belonging to this person, and the Catalog Label has been assigned to the image.

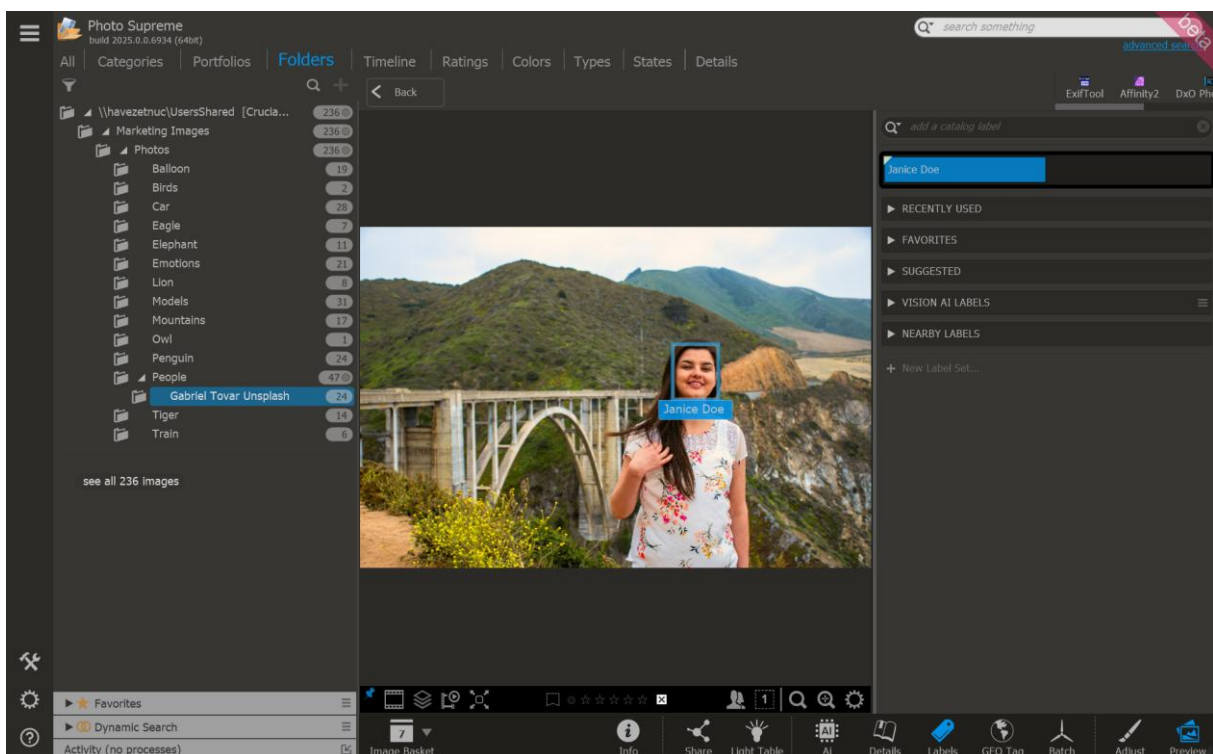


If you don't have a Catalog Label for the person yet, you can double-click the area's caption and manually enter a name, with the option to create the label afterward.

When you link a name (called a **Catalog Label**) to a face, that face becomes "confirmed" and will be shown with a green frame. A confirmed face acts as a reference to help the software recognize that person in future images.

Once a face is confirmed, Photo Supreme will automatically identify it in other images without you needing to confirm it again, as long as the software detects the same person. You don't need to confirm every face in every image. If a face has already been recognized from a previous confirmation, it's automatically matched in new photos.

To detect faces and recognize the person, simply press the **F key** on your keyboard. This will trigger the software to find faces in the image and try to match them to known (confirmed) individuals from your catalog.



Analyzing with Artificial Intelligence

Photo Supreme lets you use artificial intelligence (AI) to analyze the content of your images. When you use this feature, Photo Supreme sends the image to an AI service, which then examines it and provides a description of what's in the photo. The AI will also suggest a Headline, Description, and even Catalog Labels that best match the image.

You can choose to accept these suggestions, or you can edit them to fit your needs. This helps make organizing and describing your photos much easier and faster.

Photo Supreme can use either **OpenAI**, the online service that powers ChatGPT, **Google Gemini**, or **Ollama**, an AI solution that runs directly on your computer.

OpenAI, Google Gemini, or Ollama

OpenAI, the same technology behind ChatGPT, can analyze the content of your image. When you use this feature in Photo Supreme, the software sends a small 480-pixel preview of your image to OpenAI. OpenAI then provides a description of the photo and suggests a Headline, Description, and even Catalog Labels that fit the image.

Like OpenAI, Google Gemini can analyze the content of your image. When you use this feature in Photo Supreme, the software sends a small 480-pixel preview of your image to the Google Gemini server. The service then provides a description of the photo and suggests a Headline, Description, and even Catalog Labels that fit the image.

Ollama, a locally installed AI solution, can also analyze the content of your image. When you use this feature in Photo Supreme, the software sends a small 480-pixel preview of your image to the locally installed Ollama. Ollama then provides a description of the photo and suggests a Headline, Description, and Catalog Labels that match the image. Since Ollama runs directly on your computer, all processing is done locally, without needing an internet connection. Ollama benefits from a GPU because GPUs (Graphics Processing Units) are designed for parallel processing, which is particularly well-suited for machine learning tasks, including the execution of language models like those supported by Ollama.

OpenAI, Google Gemini, and Ollama offer powerful AI tools in Photo Supreme, but they serve different purposes based on your needs and setup. Here's a guide to help you choose which AI service to use:

Use Cases for OpenAI in Photo Supreme:

- **Cloud-based Processing:** OpenAI is an online service, which means the AI processing happens in the cloud. This is ideal if you need access to cutting-edge AI models, like the ones behind ChatGPT, for tasks such as generating detailed descriptions, headlines, and labels for your images.
- **Advanced AI Features:** OpenAI provides more sophisticated language models that can analyze complex image content and generate more precise, nuanced metadata, like descriptions and catalog labels.
- **Internet Connectivity:** OpenAI requires an internet connection to process the images, so it's best suited for users with reliable internet access who prefer to use the most advanced AI models available.

Use Cases for Google Gemini in Photo Supreme:

- **Cloud-based Processing:** Google Gemini is an online service, which means the AI processing happens in the cloud. This is ideal if you need access to cutting-edge AI models, for tasks such as generating detailed descriptions, headlines, and labels for your images.
- **Advanced AI Features:** Google Gemini provides more sophisticated language models that can analyze complex image content and generate more precise, nuanced metadata, like descriptions and catalog labels.

- **Internet Connectivity:** Google Gemini requires an internet connection to process the images, so it's best suited for users with reliable internet access who prefer to use the most advanced AI models available.

Use Cases for Ollama in Photo Supreme:

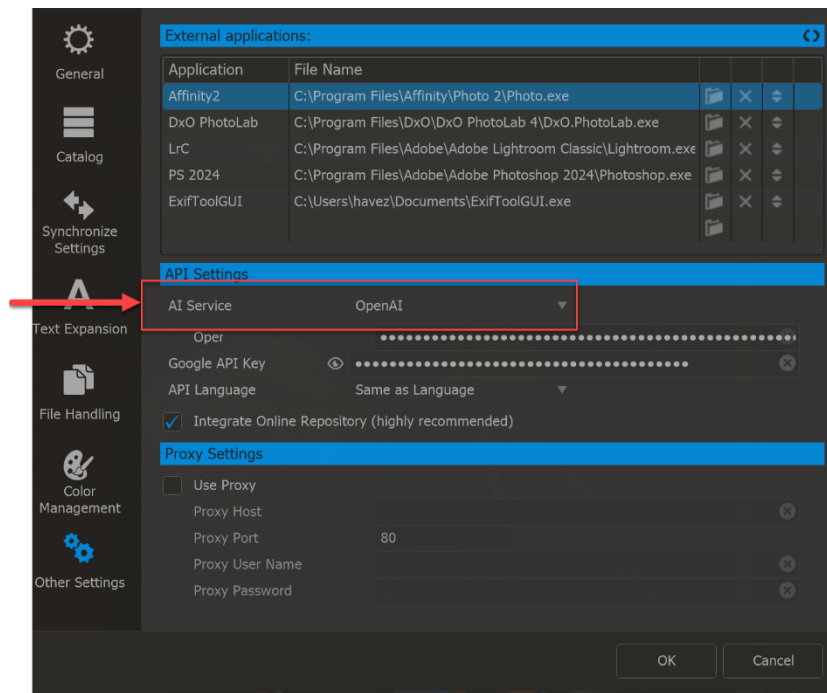
- **Local Processing:** Ollama is a locally installed AI solution, which means the processing happens directly on your computer. This is ideal if you prefer not to rely on an internet connection for AI tasks.
- **Privacy and Security:** Since Ollama processes everything on your device, it can be a more secure and private option for users who are concerned about sending their images to the cloud. No data leaves your computer.
- **Offline Use:** If you often work without an internet connection or in environments where internet access is limited, Ollama is a great choice as it doesn't require online connectivity to function.

Which Should You Choose?

- Choose OpenAI or Google Gemini if you need cutting-edge AI models, detailed image descriptions, and are comfortable with an online service. It's ideal for users with a stable internet connection who require scalable solutions for processing numerous images. Keep in mind that OpenAI and Google Gemini are paid services, requiring an API key signup. OpenAI uses a credit deposit based system, while Google requires that you register a Credit Card in the billing section of your Google account. OpenAI is cost-effective, charging about \$1 for approximately 8,000 images.
- Since OpenAI and Google Gemini are very similar, the chapter below could help you decide which meets your use-case better.
- Choose Ollama if you prefer to keep everything on your computer for reasons of privacy, or when working offline. It's a great option if you want fast, local processing without needing an internet connection.

In summary, each service has its own advantages based on your needs, such as how you prefer to process your images, your privacy concerns, and whether you have a reliable internet connection. Generally, OpenAI and Google Gemini provides higher-quality results, making it a great choice for more detailed and accurate image analysis.

You can set your preferred AI service in Preferences > Other Settings. In the API Settings section, you can choose your AI service and enter the necessary details for the selected service.



OpenAI or Google Gemini?

As written, the two services are effectively identical, so it's hard to understand *why* they would choose one over the other. Below are clear, practical scenarios where one platform would prevail over the other, followed by suggested differentiating use-case text.

When OpenAI Would Prevail

A user would benefit more from OpenAI when:

1. Rich, Editorial-Quality Descriptions Matter

Best for: photographers, archivists, journalists, and stock image creators

OpenAI tends to excel at natural, fluent, and context-aware language generation, making it a strong choice when image descriptions need to read well to humans, not just machines.

Example use case:

A stock photographer wants expressive captions and keyword-rich descriptions that improve discoverability and appeal to buyers.

2. Custom Metadata Style or Prompt Control Is Needed

Best for: advanced users and power catalogers

OpenAI is well-suited when users want fine-grained control over how metadata is written, such as tone, verbosity, or specific labeling conventions.

Example use case:

A museum archive wants descriptions written in a consistent curatorial style across thousands of images.

3. AI Is Used Beyond Image Metadata

Best for: users already leveraging AI workflows

If users also rely on AI for text generation, summaries, translations, or other language-heavy tasks, OpenAI provides a more versatile ecosystem.

Example use case:

A user generates image metadata and then uses the same AI engine to write blog posts, captions, or documentation.

When Google Gemini Would Prevail

A user would benefit more from Google Gemini when:

1. Strong Visual Understanding Is the Priority

Best for: large, diverse photo collections

Gemini is optimized for multimodal analysis, making it effective at recognizing objects, scenes, and relationships in images.

Example use case:

A user manages a large personal photo library and wants reliable object and scene recognition across everyday photos.

2. Google Ecosystem Alignment Matters

Best for: users already invested in Google services

Gemini fits naturally into workflows connected to Google Photos, Drive, or other Google technologies, offering consistency across platforms.

Example use case:

A user already relies on Google Photos' AI features and wants similar behavior in Photo Supreme.

3. Broad, Scalable Metadata Generation

Best for: high-volume processing

Gemini is well-suited for efficient, large-scale metadata generation where speed and consistency matter more than stylistic nuance.

Example use case:

A user bulk-processes tens of thousands of images and wants dependable, automated tagging.

Differentiated Summary

OpenAI is ideal for users who prioritize rich, expressive, and highly customizable image descriptions, while Google Gemini is well suited for users who value strong visual understanding, scalable processing, and integration with Google's ecosystem.

Prepare OpenAI

To use OpenAI, you'll need to sign up for an OpenAI API key. For detailed instructions on setting up the OpenAI API in Photo Supreme, refer to the QuickStart guide.

<https://manualsu.idimager.com/version11/QuickStart-SetupOpenAIAPI.pdf>

Prepare Google Gemini

To use Google Gemini, you'll need to sign up for a Google API key. For detailed instructions on setting up the Google API in Photo Supreme, refer to the QuickStart guide.

<https://manualsu.idimager.com/version11/QuickStart-SetupGoogleAPI.pdf>

Prepare Ollama

To get started with Ollama, first download and install the software on your computer. Once installed, you'll need to add either the Llava or Gemma3 model, both of which are supported by Photo Supreme. For step-by-step guidance, visit the Ollama website.

Since Gemma3 is the newer model, it generally delivers better results than Llava, making it the recommended choice.

How to Install and Use Ollama

Step 1: Download and Install Ollama

- Go to the official website: <https://ollama.com/download/>
- Download the installer for your operating system and follow the instructions to install it.

Step 2: Open the Command Prompt

- On Windows, press the Win key on your keyboard, type "command prompt," and press Enter to open it. If your user account lacks administrator rights, be sure to select the option to run the Command Prompt as an administrator.
- On macOS, press Cmd+Spacebar and type "terminal" and hit Enter to open the Terminal Prompt.

Using the Ministral-3 Model

Step 3: Download the Ministral-3 Model

- In the Command Prompt, type the following command and press Enter:

```
ollama pull ministral-3
```

- This downloads the model (about 6GB). Wait for it to finish.

Step 4: Run the Ministral-3 Model

- Once the download is complete, type this command and press Enter:

```
ollama run ministral-3
```

- This will start Ollama with the Ministral-3 model loaded.

You can now ask it questions, similar to ChatGPT, but it runs locally on your computer.

Using the Gemma3 Model

Step 3: Download the Gemma3 Model

- In the Command Prompt, type the following command and press Enter:

```
ollama pull gemma3
```

- This downloads the model (about 3.3GB). Wait for it to finish.

Step 4: Run the Gemma3 Model

- Once the download is complete, type this command and press Enter:

```
ollama run gemma3
```

- This will start Ollama with the Gemma3 model loaded.

You can now ask it questions, similar to ChatGPT, but it runs locally on your computer.

Setup Photo Supreme to use Ollama

Step 5: Set Up Photo Supreme to Use Ollama

1. Open Photo Supreme.
2. Go to Preferences → Other Settings.
3. Choose Ollama as your AI service.
If you have installed Ollama with default settings, you don't need to change the URL or enter an API key.

4. By default, the Gemma3 model is pre-selected. Change that if needed.
5. Click Apply to save your settings.

Using the AI Service

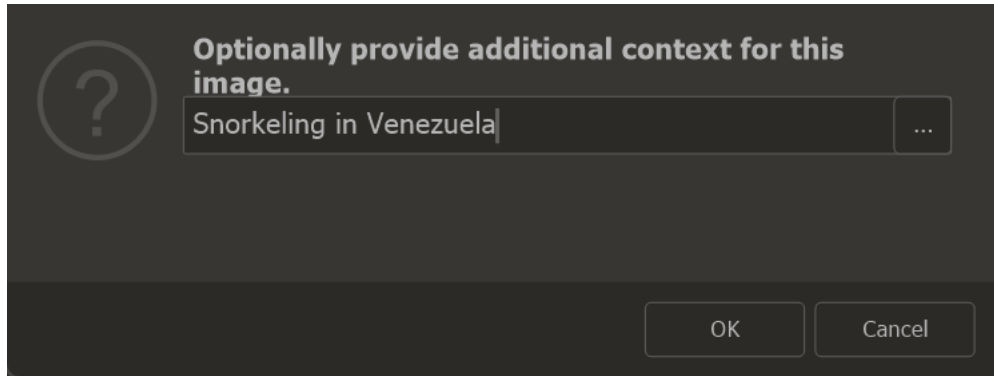
AI isn't replacing catalog labeling, nor is that its current purpose. Depending on how AI technology/services improve, this may change in the future, but for now, AI technology is not there yet. The AI tool offers suggestions, not intended to take over the labeling process. Using all the suggested catalog labels without review might be appropriate if your goal is to tag a large number of photos quickly. This could apply to stock photographers or those working in fast-paced environments like product or sports photography.

The main goal of AI here is to enhance the searchability of your images. The AI-generated descriptions become instantly searchable, even if you don't process or apply them. For example, one of your images might generate a line like, "A paraglider is shown in flight against a cloudy sky." All those words are now searchable without any extra work. You only need to use the AI results for headlines, descriptions, or labels if that suits your workflow: again, something that might benefit stock or high-volume photographers.

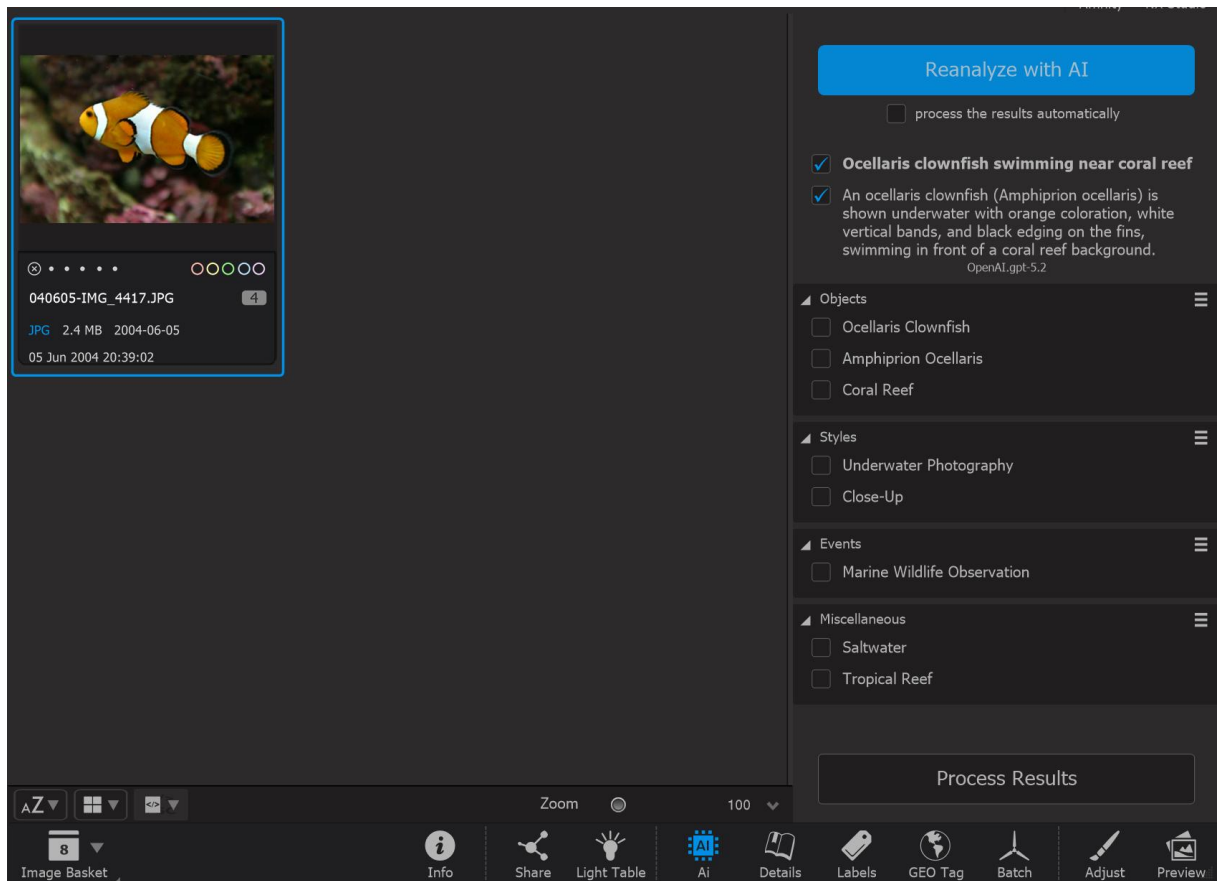
Using OpenAI/Google Gemini/Ollama in Photo Supreme is a matter of selecting a thumbnail and then requesting the AI service to describe the photo. To do so:

1. Select one thumbnail
2. Open the AI Panel by clicking the Ai button from the command bar below the thumbnails
3. Tick or untick the "process the results automatically" checkbox. By processing automatically, Photo Supreme will write the Headline and Description to the appropriate metadata fields and create Catalog Labels for every suggested keyword. Keywords that already exist as Catalog Labels in the Catalog Structure will be assigned automatically. All other Catalog Labels end up in the AI category. See further down for more info about the AI Category.
4. Click the **Analyze with AI** button

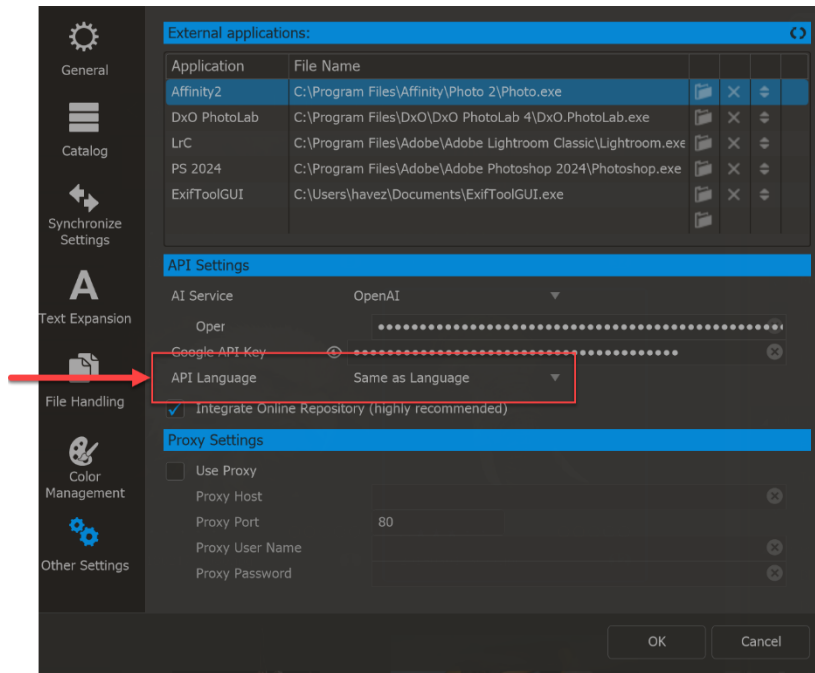
You can now choose to add extra information about the image. This extra context will also be sent to the AI to help it describe the image more clearly. Giving the AI more details helps it give more accurate results. For example, if the photo is of a cat, you might add information like "The cat's name is Luna" to help the AI understand the image better.



5. After clicking OK, the image is sent to the AI service for analysis. The results may differ depending on whether you're using OpenAI or Ollama. Generally, OpenAI provides more detailed results.



By default, the AI service will respond in the same language as the application. If you'd like, you can change the language for the AI in **Preferences > AI Settings > API Language**. This also controls the language used when the AI processes your requests, so non-English speakers can use the app in English but get responses in their native language.



By default, result processing is turned off. When Photo Supreme analyzes an image, it saves the AI-generated results in the Catalog. This means you can still search for those results, even if you haven't processed them. If you do process the results, the AI data gets permanently added to the image's metadata.

When processing the results, here's what happens:

- If you've chosen to include it, the headline will be saved in the image's details.
- Similarly, if you've chosen to include the description, it will also be saved in the image's details.
- Keywords detected during processing are unselected by default.
 - For selected keywords, the system checks whether they match an existing catalog label in the determined category (for example, *Objects*). If a match is found, that label is assigned to the image. If no match exists, a new catalog label is created in that category.
 - For unselected keywords, a new catalog label is created in the private "AI Labels" category. Labels in this private category are not included in the image's metadata, but they are stored in your catalog for potential future use. You can move these labels to another category at any time by dragging them.

You can also delete individual catalog labels in the *AI Labels* category, or remove the entire AI Labels category if you no longer need it.

To show how the models differ, here's an example image along with the analysis each model provides. Keep in mind that these results don't fully reflect each model's overall performance. They simply give an idea of how complete the analysis is for this particular random image. Results may vary depending on the image used.



Model	Description	Keywords
OpenAI GPT5 Mini	Close-up view of zebras standing in proximity, with a foreground individual displaying characteristic black-and-white stripe pattern and an erect mane. Biological classification: Family Equidae; probable species <i>Equus quagga</i> (plains zebra). A horizontal tubular metal rail (round cross-section, likely galvanized steel) is visible at lower right. Background contains deciduous trees under daylight conditions. Species identification is based on broad striping and presence of shadow (brownish) stripes; identification confidence: medium. No architectural elements are present in the scene.	Zebra, Stripe, Rail, Tree, Mane, Metal, Wildlife, Close-Up, Naturalistic, Standing, Grouping, Plains Zebra, Pattern, Sunlight, Background
Google Gemini Gemini 2.5 Flash	A close-up view captures multiple Plains Zebras (<i>Equus quagga</i>). The head and neck of one zebra are prominent in the foreground, fac-	<i>Equus Quagga</i> , Zebra, Coat, Stripe, Ear, Muzzle, Foliage, Wildlife Photography, Close-Up, Animal, Nature, Pattern, mammal

	<p>ing right, displaying its characteristic black and white striped coat. The body of another zebra is partially visible behind it, with a third zebra's back on the right showing brown and white stripes. Blurred green foliage forms the background.</p>	
Ollama Gemma3	<p>A close-up photograph shows a zebra partially obscured behind another striped animal within a natural setting, presumed to be a zoo or similar controlled environment. The zebra's distinctive black and white stripes dominate, visible on its head, neck, and upper torso. The animal has a light-colored mane, and its facial features are detailed, suggesting a focused gaze. There are other zebras visible in the background, and a partial metal fence is present, indicating a containment area. This animal appears to be <i>*Equus grevus*</i>, the Grevy's zebra, a species known for its unique mane and coat pattern.</p>	Zebra, Animal, Stripes, Mane, Fence, Wildlife, Mane, Equus Grevus, Close-Up, Photography, Natural Lightning, Wildlife Viewing, Zoo Visit, Observation, Animal Photography, Taxidermy (implies), Conservation
Ollama Llava	<p>A zebra exhibit in a zoo showcases a family unit, with one adult standing behind two younger zebras. The zebra on the left is facing away from the camera, while the other two are visible. One of the young zebras appears to be grooming itself, indicating a calm and relaxed environment. The backdrop features trees and foliage, providing a naturalistic setting for this display.</p>	Zebra, Wildlife, Nature

Artificial Intelligence with Google Vision

Google Vision uses technologies to suggest labels, objects, landmarks, or text. When you request these AI tasks in Photo Supreme, a small 480px version of your image is sent to Google Vision for analysis.

Google Vision was one of the top tools available when it launched a few years ago. However, with the rapid progress in AI, it's now considered somewhat outdated. If possible, it's recommended to use newer tools like Google Gemini or Ollama. While Google Vision does a good job generating basic tags from an image, it's less effective when it comes to strategic keyword suggestions, understanding context, or producing creative phrasing.

Prepare

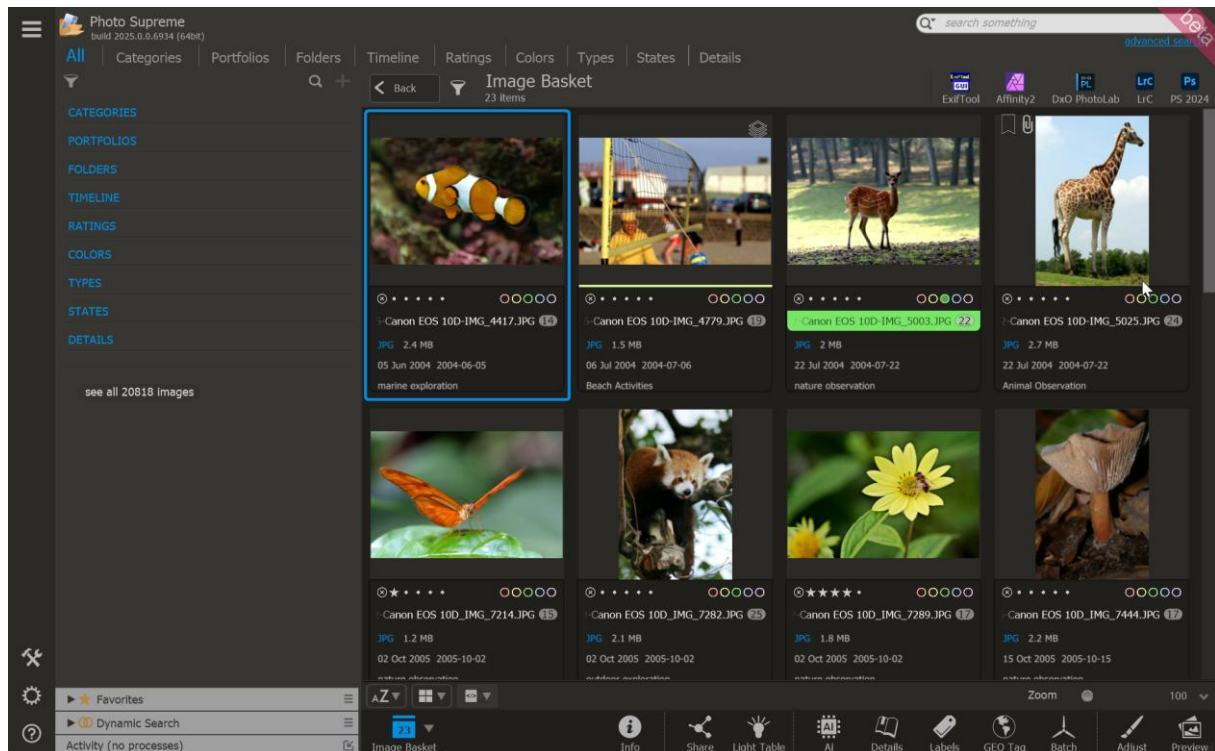
To use Google Vision, you'll need to sign up for a Google API key and configure it for Google Vision. If you're using a non-English version of Photo Supreme, you'll also need to configure the API key for Google Translate. For detailed instructions on setting up the Google API in Photo Supreme, refer to the QuickStart guide.

<https://manualsu.idimager.com/version11/QuickStart-SetupGoogleAPI.pdf>

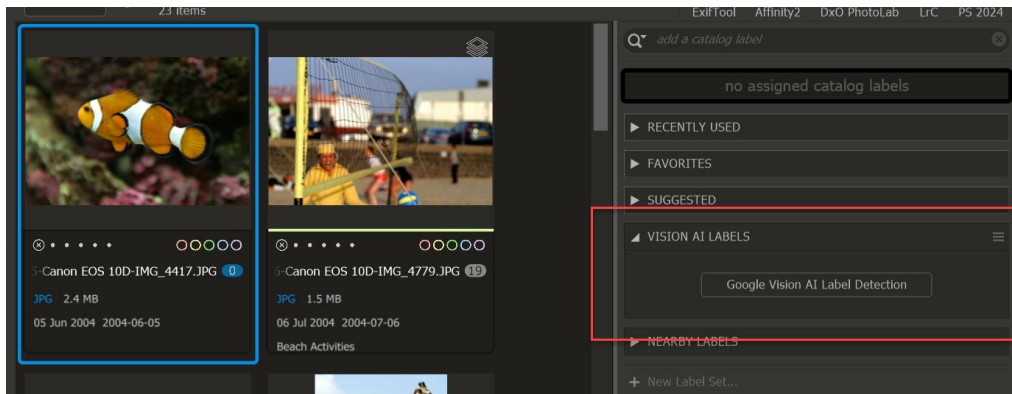
Labeling with Google Vision

Photo Supreme provides multiple methods for assigning Catalog Labels to your images. These labels function like virtual Post-it notes, helping you organize and manage your catalog more efficiently.

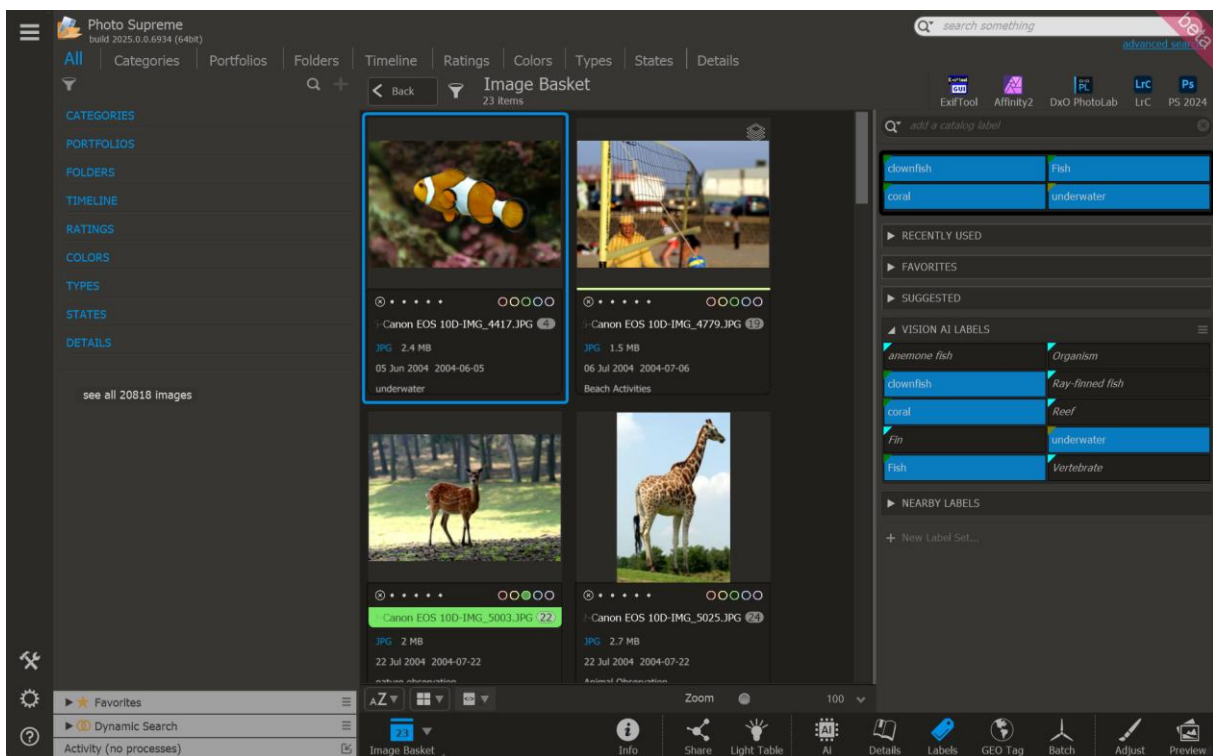
While assigning Catalog Labels can be time-consuming, you can speed up the process by using Google Vision's AI to suggest labels automatically. To start AI labeling, select your image and open the Label Assignment Panel by clicking "Labels" on the Command Bar below the thumbnails.



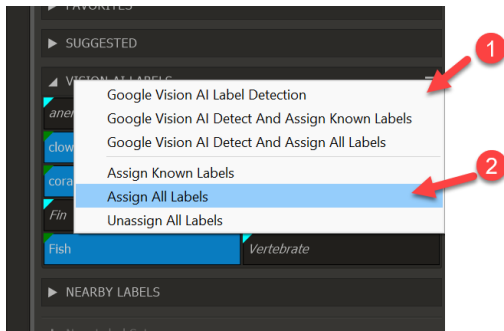
The Label Assignment Panel (LAP) opens on the right side of the screen. In the provided screenshot, you can see that no Catalog Labels have been assigned to this image yet. Open the section “VISION AI LABELS”.



There, click the "Google Vision AI Label Detection" button. This action prompts Google Vision to analyze the image and generate suggested labels.



Google Vision provides suggestions such as anemone fish, organism, clownfish, coral, reef, and more. Labels like clownfish, coral, underwater, and fish are highlighted, indicating that Photo Supreme has already assigned these Catalog Labels to the image as part of its existing catalog structure. If, after reviewing, all the suggestions seem accurate and you want to assign them all, you can easily do so by clicking the menu button and selecting "Assign all Labels."



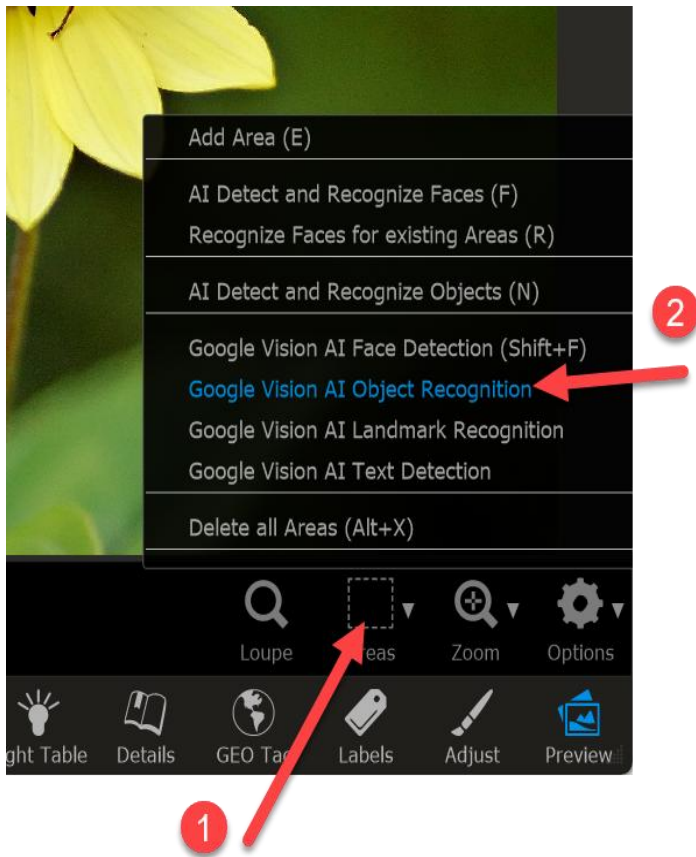
If only a few of the suggestions are relevant, you can selectively assign the desired catalog labels by checking the boxes next to each one.

AI Object Recognition

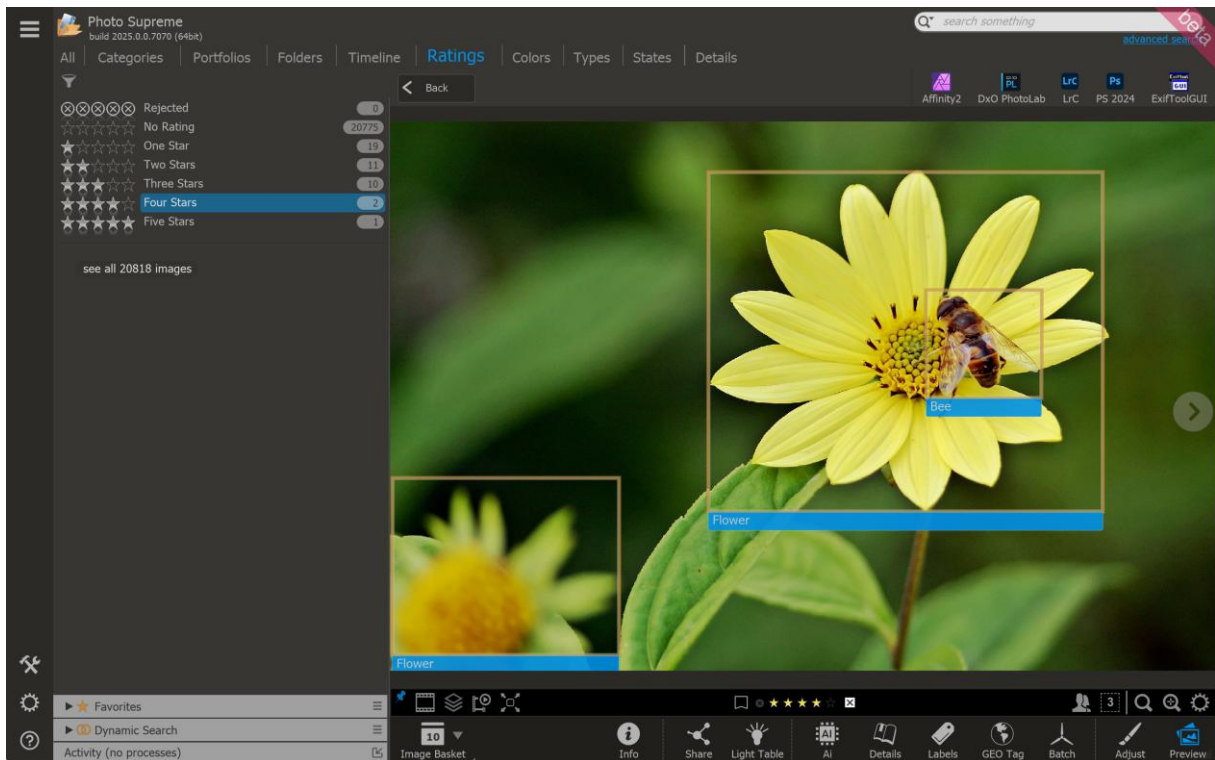
Object recognition is a computer vision technique for identifying objects in images or videos. When humans look at a photograph or watch a video, we can readily spot people, objects, scenes, and visual details ². With Google Vision, you can use this technology for your images.

To do Object Recognition, you open the image and then select **Google Vision AI Recognize Objects** from the Areas menu.

² <https://www.mathworks.com/solutions/image-video-processing/object-recognition.html>



Here is what Google Vision suggests:

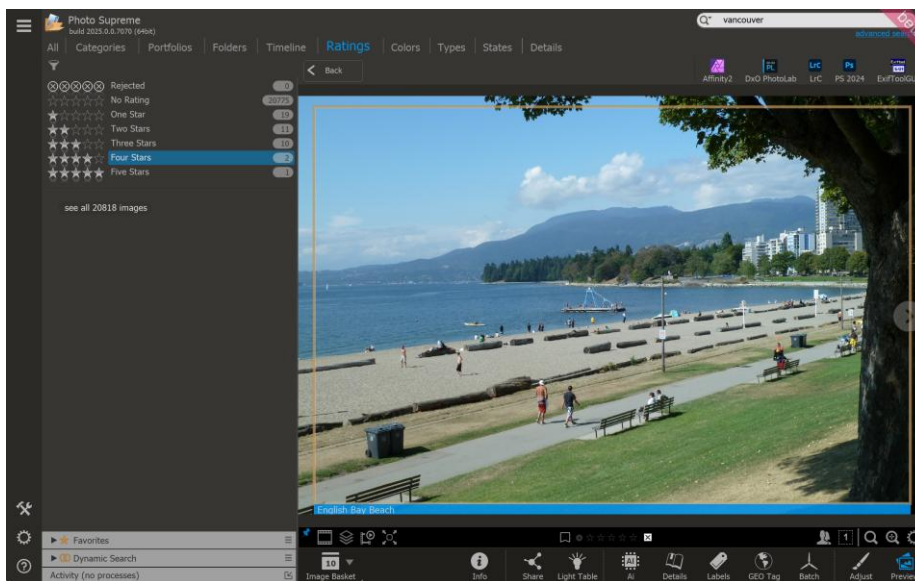


Areas are created for the identified objects: flower, and bee. These identified objects are categorized under the Objects Category in the Catalog Structure and are assigned to the image.

AI Landmark Detection

A landmark is a well-known or easy-to-spot feature in a place, like a building, statue, mountain, or river, that helps people recognize or find their way around that area. Landmarks can also have cultural or historical importance.

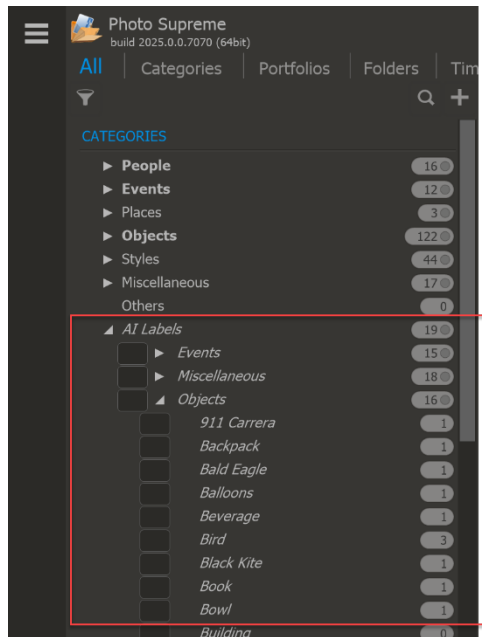
With Google Vision, you can use this technology to identify landmarks in your images. To do this, open your image and select "Google Vision Landmark Recognition" from the Areas menu.



In this photo, the landmark was recognized as "English Bay" (in Vancouver). The identified landmark is automatically placed under the **Objects Category** in the Catalog and the label is added to the image.

Managing AI Labels

After detecting labels with OpenAI, Ollama, or Google Vision, Photo Supreme stores the identified AI Catalog Labels within the Catalog Structure, under a top-level category called "AI Labels."



The AI Labels Category is a private category, so the labels inside it won't appear as keywords in the image metadata. If you'd like to use one of these labels in your regular categories, you can drag it to your preferred category. For example, you can drag "Botany" from the AI Labels category to the "Styles" category. This action adds the label to your personal catalog, and if the same label is detected in the future, it will be automatically assigned.