



Google Vision Product Tags

Plugin Documentation

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Google Vision Product Tags for nopCommerce

Plugin Documentation

This plugin allows you to use Google Vision to create a Product Tag List based on the Product Image content.

The system will derive insights from your images using with AutoML Vision or use pre-trained Vision API models to detect emotion, understand text, and more:

- Use machine learning to understand your images with industry-leading prediction accuracy
- Train machine learning models that classify images by your custom labels using AutoML Vision
- Detect objects and faces, read handwriting, and build valuable image metadata with Vision API

Refer to <https://cloud.google.com/vision/docs/reference/rest/v1/images/annotate>

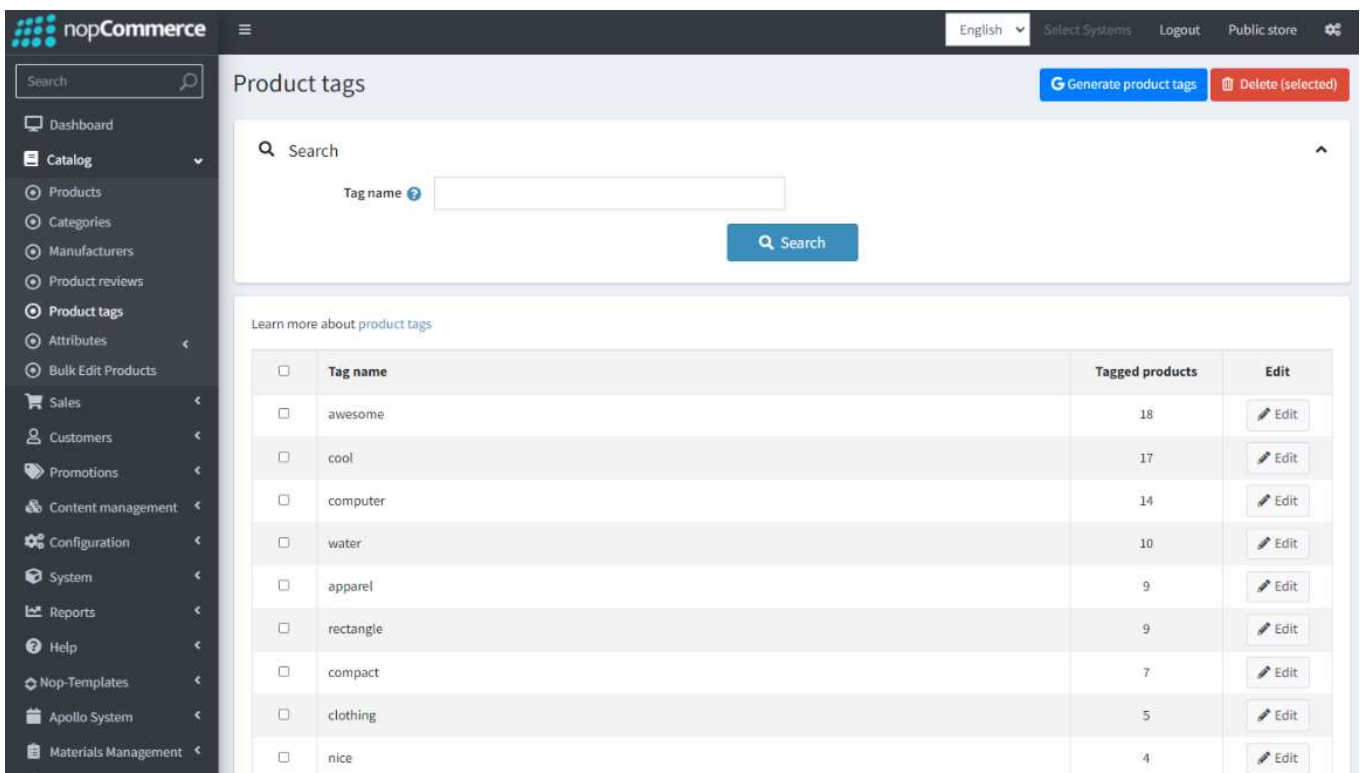
And <https://cloud.google.com/vision/docs/labels>

Administration

Go to Product Tags in the Catalogue Menu

Product Tags

Click the Generate product tags button. The system will then upload each image for each selected product in your system and derive a list of product tags.



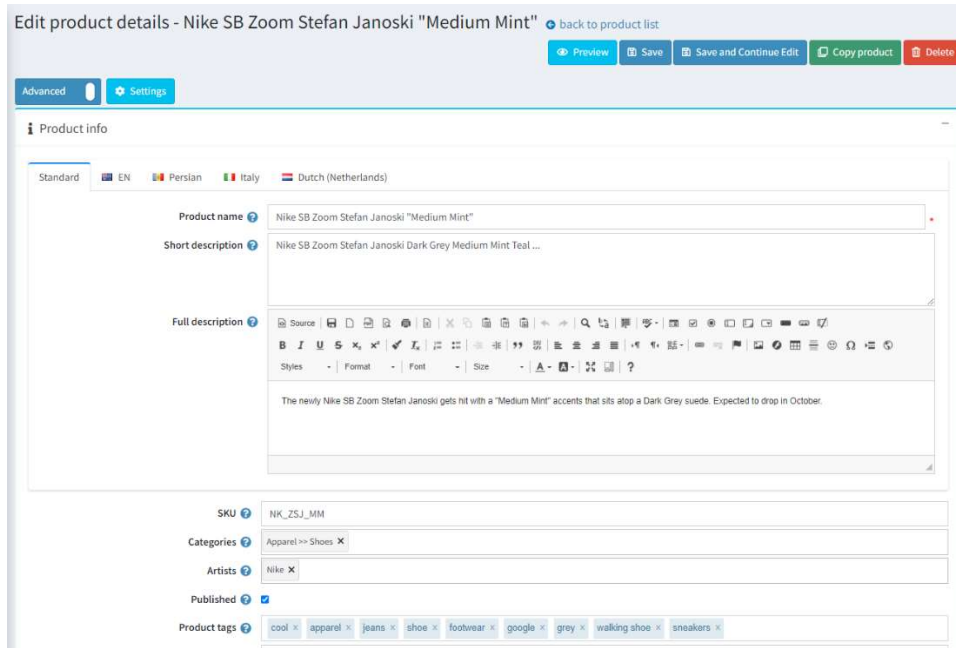
The screenshot shows the nopCommerce admin interface for the 'Product tags' section. The top navigation bar includes the nopCommerce logo, a search bar, and links for 'English', 'Select Systems', 'Logout', and 'Public store'. The left sidebar contains a menu with options like 'Dashboard', 'Catalog', 'Products', 'Categories', 'Manufacturers', 'Product reviews', 'Product tags', 'Attributes', 'Bulk Edit Products', 'Sales', 'Customers', 'Promotions', 'Content management', 'Configuration', 'System', 'Reports', 'Help', 'Nop-Templates', 'Apollo System', and 'Materials Management'. The main content area is titled 'Product tags' and features a search bar with a 'Tag name' input field and a 'Search' button. Below the search bar is a table with the following data:

<input type="checkbox"/>	Tag name	Tagged products	Edit
<input type="checkbox"/>	awesome	18	Edit
<input type="checkbox"/>	cool	17	Edit
<input type="checkbox"/>	computer	14	Edit
<input type="checkbox"/>	water	10	Edit
<input type="checkbox"/>	apparel	9	Edit
<input type="checkbox"/>	rectangle	9	Edit
<input type="checkbox"/>	compact	7	Edit
<input type="checkbox"/>	clothing	5	Edit
<input type="checkbox"/>	nice	4	Edit

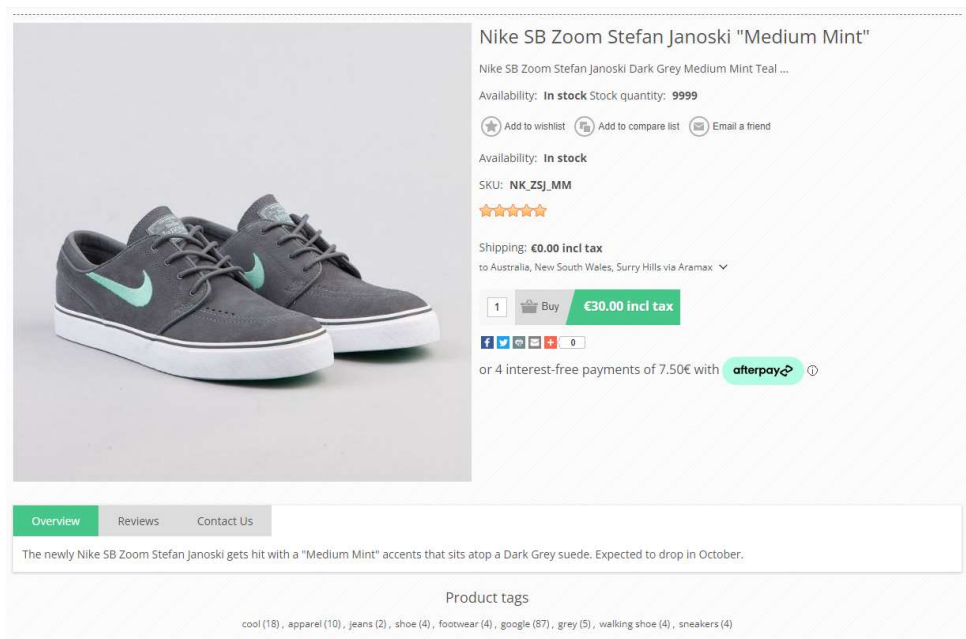
Each new product tag is then associated and saved with the product.

For example:

After generating the tags for this product the tags added will be as follows:



Then these tags will be displayed in the front end for the product



Controlling the Operation

A number of special tags are created by installing the plugin:

1. "google" product tag – When this tag is added to a product then the system will not attempt to analyse the product when the Generate button is clicked
2. "visionupdate" product tag – When this tag is added to a product then the system will attempt to re-analyse the product images and update the tag list

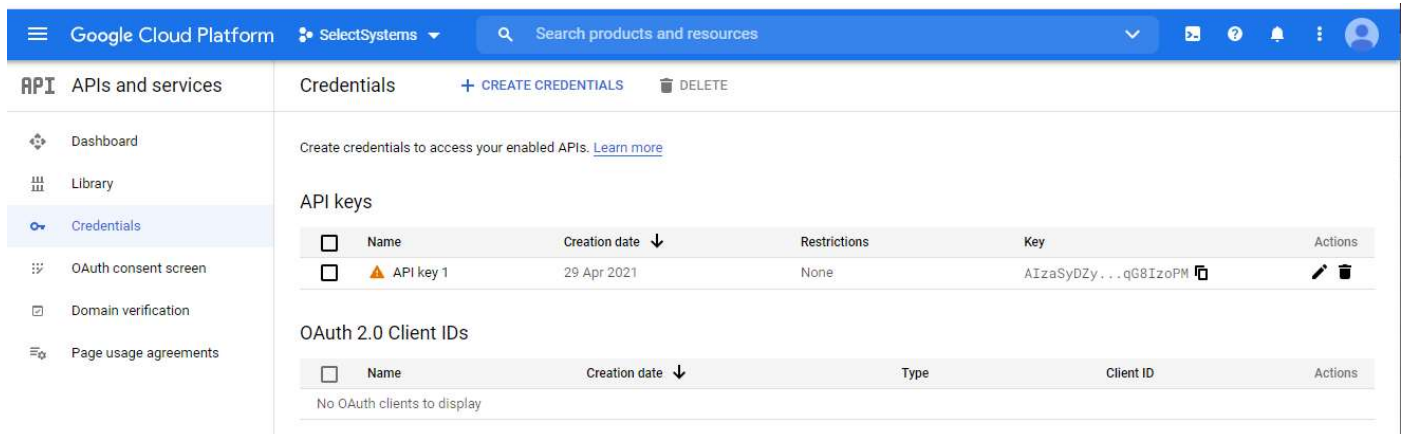
In addition in configuration you can choose to send all products for analysis by Ticking the Update All Products checkbox. This will override the "visionupdate" tag.

When a product has been analysed and tags created the "google" product tag will be added to the product.

Configure Google Cloud Platform Setup

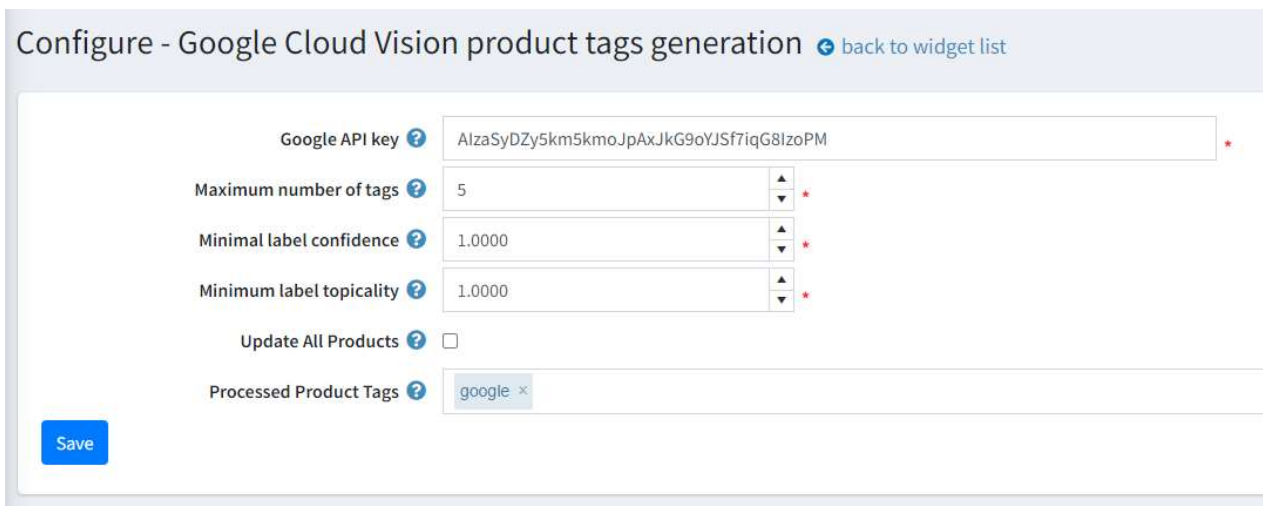
Setup a project and an Api Key in the Google Cloud Platform

See <https://console.cloud.google.com/apis/credentials>



Configure Plugin

The settings for the plugin can be set using the configure page.



Google Api Key

Enter the Api from the Google Cloud Platform Setup

Maximum number of tags

This is the maximum number of tags to return from the analysis of the image

Minimal label confidence

The Minimal label confidence score for a product tag to be created from it. Ranges from 0 (no confidence) to 1 (very high confidence).

Minimum label topicality

The Minimal label topicality for a product tag to be created from it. Topicality is the relevancy of the ICA (Image Content Annotation) label to the image. It measures how important/central a label is to the overall context of a page.

Refer to <https://cloud.google.com/vision/docs/labels>

Update All Products

When selected it will override the “visionupdate” tag and analyse all products which do not have a **Processed Product Tag** applied.

Processed Product Tags

This is a list of tags which when associated with a product means that the product image analysis is not carried out.

The default is the “google” product tag. Other tags can be added. i.e. if you add a tag named “shoes” then all products that have the tag “shoes” associated will not be analysed.

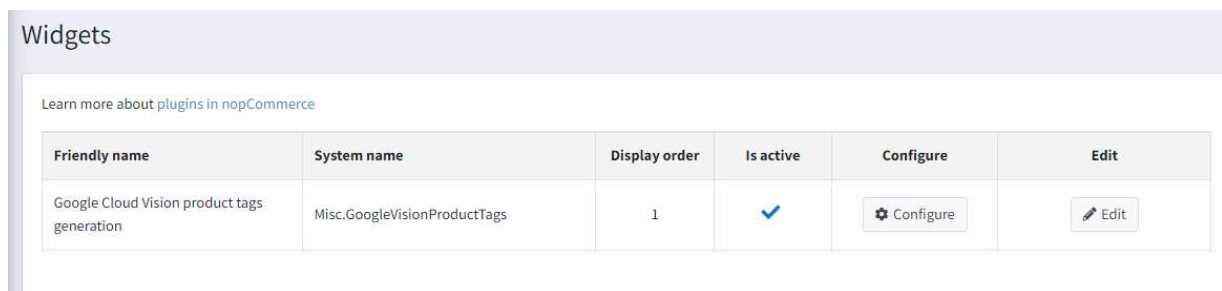
For example:



In this example products with the tags “google”, “shoes” or “computer” will not be analysed

Widget Configuration

Ensure the widget is enable in the Widget List



Widgets

Learn more about [plugins in nopCommerce](#)

Friendly name	System name	Display order	Is active	Configure	Edit
Google Cloud Vision product tags generation	Misc.GoogleVisionProductTags	1	✓	Configure	Edit

Demo Websites

To view the plugin operation or refer to the respective demo websites

<http://v45demo.selectsystems.com.au/>

<http://v44demo.selectsystems.com.au/>

Contact Us

If you have any more questions or would like to make suggestions on how to make the plugin operations more functional please email: sales@selectsystems.com.au