

Cloud AutoML Vision

# Managing datasets

A project can have multiple datasets, each used to train a separate model. You can get a [list of the available datasets](#) (#list-datasets), [get a specific dataset](#) (#get-dataset), [export a dataset](#) (#export-dataset) and can [delete a dataset](#) (#delete-dataset) you no longer need.

Use labels with user-defined metadata to organize your datasets. See [Using labels to organize Google Cloud Platform resources](#) (<https://goo.gl/xmQnxf>) for more information on labels including common uses.

## Listing datasets

A project can include numerous datasets. This section describes how to retrieve a list of the available datasets for a project.

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**Note:** Starting September 2019 we will start migrating AutoML Vision users to a new user interface that may affect the steps in this operation. This migration will occur in an on-going basis. See the **"Integrated UI"** tab for instructions using the updated interface.

To see a list of the available datasets using the [AutoML Vision UI](#) (<https://console.cloud.google.com/vision>), click the **Datasets** link at the top of the left navigation menu.

	Name	Type	Total Images	Labeled Images	Last updated	Status
<ul style="list-style-type: none"> <li>Dashboard</li> <li style="background-color: #e0f2f1;">Datasets</li> <li>Models</li> </ul>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>untitled_1569963933092</span> <span>ICN7856270065203675136</span> </div>	Image classification	0	0	Oct 1, 2019, 2:05:35 PM	Success: Creating dataset
	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>untitled_1569962509514</span> <span>ICN6401607385563004928</span> </div>	Image classification	3,667	3,666	Oct 1, 2019, 2:01:10 PM	Warning: Importing images
	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>untitled_1569962313353</span> <span>ICN5017735662565064704</span> </div>	Image classification	3,667	3,666	Oct 1, 2019, 2:00:57 PM	Error: INTERNAL

To see the datasets for a different project, select the project from the drop-down list in the upper right of the title bar.

## Get a dataset

You can also get a specific dataset using a dataset ID.

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To see a list of the available datasets using the [AutoML Vision UI](https://console.cloud.google.com/vision) (<https://console.cloud.google.com/vision>), click the **Datasets** link at the top of the left navigation menu.

Vision	Datasets <span style="float: right;">+ NEW DATASET</span>					
	Name	Type	Total images	Labeled images	Last updated	Status
Dashboard	<span style="color: green;">✔</span> <b>my_new_dataset_v1</b> <small>ICN5496445433112690688</small>	Image classification	0	0	Nov 14, 2019, 8:49:17 AM	Success: Operation unknown
Datasets	<span style="color: green;">✔</span> <b>untitled_1573586888384</b> <small>ICN8851134574294466560</small>	Image classification	3,667	3,666	Nov 12, 2019, 11:47:26 AM	Success: Training model
Models	<span style="color: orange;">⚠</span> <b>new_dataset</b> <small>ICN5672724160787336493</small>	Image classification	3,667	3,666	Nov 12, 2019, 11:43:31 AM	Warning: Importing images

To see the datasets for a different project, select the project from the drop-down list on the left side of the title bar.

Access a specific dataset by selecting its name from the list.

## Export a dataset

You can export a CSV file with all a dataset's information to a Google Cloud Storage bucket.

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To export a non-empty dataset, complete the following steps:

- Select the non-empty dataset from the **Datasets** page.

Vision	Datasets <span style="float: right;">+ NEW DATASET</span>					
	Name	Type	Total images	Labeled images	Last updated	Status
Dashboard	<span style="color: green;">✔</span> <b>my_new_dataset_v1</b> <small>ICN5496445433112690688</small>	Image classification	0	0	Nov 14, 2019, 8:49:17 AM	Success: Operation unknown
Datasets	<span style="color: green;">✔</span> <b>untitled_1573586888384</b> <small>ICN8851134574294466560</small>	Image classification	3,667	3,666	Nov 12, 2019, 11:47:26 AM	Success: Training model
Models	<span style="color: orange;">⚠</span> <b>new_dataset</b> <small>ICN5672724160787336493</small>	Image classification	3,667	3,666	Nov 12, 2019, 11:43:31 AM	Warning: Importing images

Selecting the non-empty dataset will take you to the **Dataset details** page.

← **untitled\_1573586888384**    [|| LABEL STATS](#)    [EXPORT DATA](#)

IMPORT    **IMAGES**    TRAIN    EVALUATE    TEST & USE

All images	3,667
Labeled	3,666
Unlabeled	1

Filter labels

daisy	633
dandelion	898
roses	640
sunflowers	697

Filter images

roses(1)    daisy(1)    tulips(1)    daisy(1)  
sunflowers(1)    dandelion(1)    roses(1)    sunflowers(1)

2. Select the **Export data** option at the top of the Dataset details page.

Vision    ← **untitled\_1573586888384**    [|| LABEL STATS](#)    **EXPORT DATA**

Dashboard    **Datasets**    Models

IMPORT    **IMAGES**    TRAIN    EVALUATE    TEST & USE

All images	3,667
Labeled	3,666
Unlabeled	1

Filter labels

daisy	633
-------	-----

Filter images

roses(1)    daisy(1)    tulips(1)

This opens a window where you can choose a Google Cloud Storage bucket location, or create a new bucket and designate it as the location to store the CSV file.

## Export data

Your dataset will be exported as a list of images in CSV format. Each row contains a Cloud Storage path, any label(s) assigned to that image, bounding boxes, and a flag that indicates whether that image is in the training, validation, or test sets. You will be emailed once exporting has completed.

 Destination folder (on Cloud Storage) \* **BROWSE**

Destination folder is required.

**CANCEL** **EXPORT**

3. Select **Export CSV** after you have selected a new or existing Google Cloud Storage bucket location.

## Export data

Your dataset will be exported as a list of images in CSV format. Each row contains a Cloud Storage path, any label(s) assigned to that image, bounding boxes, and a flag that indicates whether that image is in the training, validation, or test sets. You will be emailed once exporting has completed.

**Destination folder (on Cloud Storage) \*** **BROWSE**

automl-vision-docs-testing-vcn

You will be notified when exporting finishes.

**CANCEL** **EXPORT**

4. You will receive an email when the data export process has completed.

## Exported CSV format

The exported CSV file contains the same formatting as the [training data import CSV](https://cloud.google.com/vision/automl/docs/prepare) (<https://cloud.google.com/vision/automl/docs/prepare>):

```
set,path,label0[,label1,label2,...]
```

This CSV file is saved in a created export folder that is distinguished by a unique timestamp. Below are some sample lines from an exported CSV file:

```
my-storage-bucket/export_data-my_dataset_name-2019-11-08T22:28:13.081Z/image_classification_1.csv :
```

```
TRAIN,gs://my-storage-bucket/export_data-my_dataset_name-2019-11-08T22:28:13.081Z/fi  
VALIDATION,gs://my-storage-bucket/export_data-my_dataset_name-2019-11-08T22:28:13.08  
TRAIN,gs://my-storage-bucket/export_data-my_dataset_name-2019-11-08T22:28:13.081Z/fi  
VALIDATION,gs://my-storage-bucket/export_data-my_dataset_name-2019-11-08T22:28:13.08  
TRAIN,gs://my-storage-bucket/export_data-my_dataset_name-2019-11-08T22:28:13.081Z/fi  
TEST,gs://my-storage-bucket/export_data-my_dataset_name-2019-11-08T22:28:13.081Z/fi
```

## Deleting a dataset

You can delete a dataset you no longer need in the UI, or with the dataset's ID via the following code samples.







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**Note:** Starting September 2019 we will start migrating AutoML Vision users to a new user interface that may affect the steps in this operation. This migration will occur in an on-going basis. See the "**Integrated UI**" tab for instructions using the updated interface.

1. In the [AutoML Vision UI](https://console.cloud.google.com/vision) (<https://console.cloud.google.com/vision>), click the **Datasets** link at the top of the left navigation menu to display the list of available datasets.
2. Click the three-dot menu at the far right of the row you want to delete and select **Delete dataset**.
3. Click **Delete** in the confirmation dialog box.

Datasets <span>BETA</span>		+ NEW DATASET				
Name	Type	Total Images	Labeled Images	Last updated	Status	
 <b>untitled_1569963933092</b> ICN7856270065203675136	Image classification	3,667	3,666	Oct 1, 2019, 2:24:41 PM	Success: Training model	
 <b>untitled_1569962509514</b> ICN6401607385563004928	Image classification	3,667	3,666	Oct 1, 2019, 2:01:10 PM	Warning: Importing images	
 <b>untitled_1569962313353</b> ICN5017735662565064704	Image classification	3,667	3,666	Oct 1, 2019, 2:00:57 PM	Error: INTERNAL	

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