



Custom Vision

https://customvision.ai/projects


Projects



New Project



objectdetect1
Limited trial



sportscar
Limited trial

<https://customvision.ai>
にサインアップ後、New Project をクリックしてください

New project

Name*
your_project_name

Description
Enter project description

Resource Group*
Limited trial [create new](#)

Project Types ⓘ
☐ Classification
☒ Object Detection (preview)

プロジェクト名を入力後、Object Detection (preview) を選択して、Create project をクリックしてください

Cancel Create project

Custom Vision: your_pr

+

▼

←→↺🏠🔒https://customvision.ai/projects/6f0dacf8-ce8d-428a-9f47-1aa02d00081a#/manage📖☆🌟🔍📄⋮

🏠Custom Vision

your_project_name

TRAINING IMAGES

PERFORMANCE

PREDICTIONS

⚙️Train

✓Quick Test

⚙️?

👤

🔍Refine

📁Add images

🗑️Delete

Select all

Iteration

Workspace


Tags

tagged

untagged

Showing: all tagged images

Search for



Looks like you don't have any images here!

Go ahead and browse for images to upload to your project, tag them, and they will be ready to be trained.

Add images

Add images で、画像ファイルをアップロードします

?

Custom Vision: your_pr...

https://customvision.ai/projects/6f0dacf...-428a-9f47-1aa02d00081a#/manage

Custom Vision

your_project_name

TRAINING IMAGES

PERFORMANCE

PREDICTIONS

Refine

Add images

Delete

Select all

Iteration

Workspace

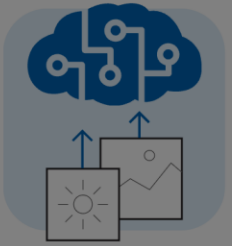
Tags

tagged

untagged

Showing: all tagged images

Search for



Looks like images here. Go ahead and upload images to this project, tag them, and train the model.

Add images

Select Images

Upload Preview

Uploading

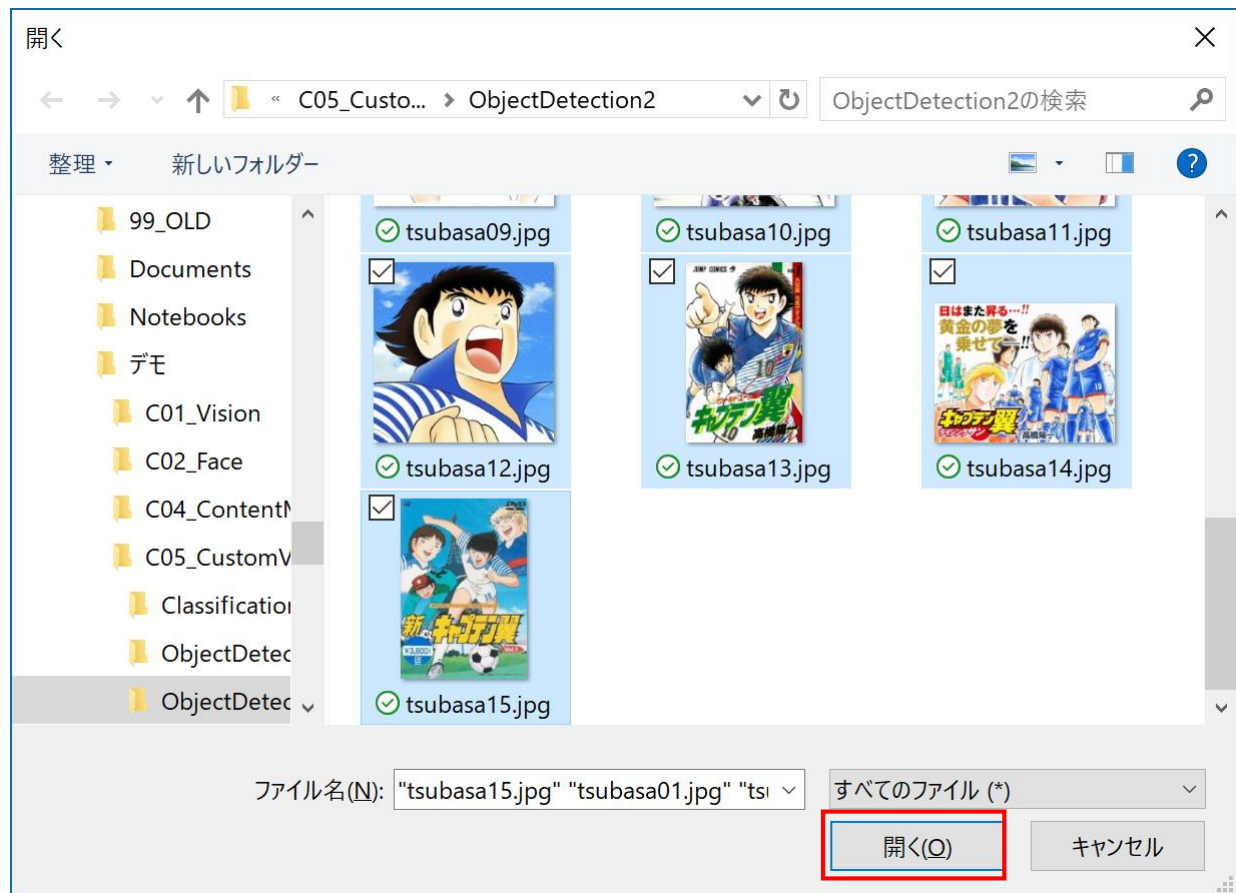
Summary

Add some images!



Browse local files

画像ファイルを アップロードします



画像ファイルを選択して、アップロードします

Custom Vision: your_pr

https://customvision.ai/projects/6f0dacf-bce8d-428a-9f47-1aa02d00081a#/manage

Custom Vision your_project_name TRAINING IMAGES PERFORMANCE PREDICTION

Refine Add images Delete Select all

Iteration

Workspace

Tags

tagged untagged

Showing: all tagged images

Search for

Looks like images h

Go ahead and t

project, tag the

Add image

Select Images Upload Preview Uploading Summary

15 images will be added...

Back Upload 15 files

画像ファイルをアップロードします


Custom Vision: your_pr...

https://customvision.ai/projects/6f0dacf.../manage

Custom Visionyour_project_nameTRAINING IMAGESPERFORMANCEPREDICTIONSTrainQuick Test

RefineAdd imagesDeleteSelect all

IterationWorkspace▼Tags▼+taggeduntaggedShowing: all untagged images



?

Custom Vision: your_pr...

https://customvision.ai/projects/6f0dacf.../manage

Custom Vision

your_project_name

TRAINING IMAGES

PERFORMANCE

PREDIC...

Refine

Add images

Delete

Select all

Iteration

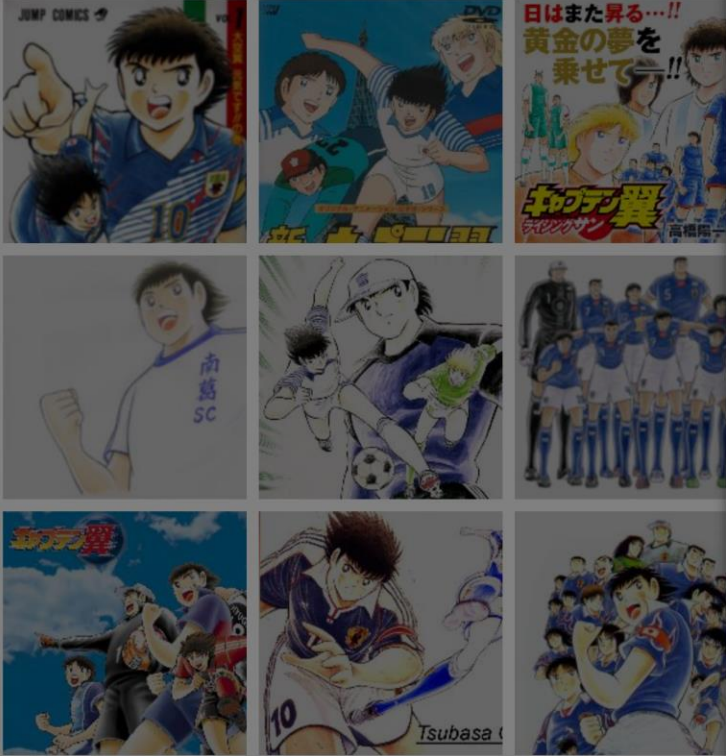
Workspace

Tags

tagged

untagged

Showing: all untagged images



Name the tag

You will use tags to organize your images.

tsubasa

タグを追加して、保存します

Save

Custom Vision: your_pr...


https://customvision.ai/projects/6f0dacf.../manage

Custom Visionyour_project_nameTRAINING IMAGESPERFORMANCEPREDICTIONSTrainQuick Test

RefineAdd imagesDeleteSelect all

先頭の画像ファイルを選択します

IterationWorkspaceTags+taggeduntaggedShowing: all untagged images



?

Custom Vision: your_pr...

https://customvision.ai/projects/6f0dacf...manage

Custom Vision

your_project_na

Refine

Iteration

Workspace

Tags


tagged

untagged


Showing: all untagged images

Undo Changes

Regions Shown



My Objects



To tag an object, hover and select the region in the image

マウスで、認識したいオブジェクトの範囲を指定します

Custom Vision: your_pr...

https://customvision.ai/projects/6f0dacf.../manage

Custom Vision

your_project_na

Refine

Iteration

Workspace

Tags

tagged

untagged

Showing: all untagged images

Undo Changes

Regions Shown

Add Region Tag

+

tsubasa

オブジェクトに登録したタグを割り当てます

My Objects

To tag an object, hover and select the region in the image

>

すべての画像ファイルに同じ作業を繰り返します

Custom Vision: your_pr

https://customvision.ai/projects/6f0dacf8-ce8d-428a-9f47-1aa02d00081a#/manage

Custom Vision

your_project_na

Refine

Iteration

Workspace

Tags

tagged

untagged

Showing: all untagged images


Undo Changes

Regions Shown

最後の画像ファイルまで行きついたら、「×」で閉じます

My Objects

tsubasa



Custom Vision: your_pr

+

▼

←→↺🏠

https://customvision.ai/projects/6f0dacf-bce8d-428a-9f47-1aa02d00081a#/manage

📖☆🌟🔍🔗⋮

🏠 Custom Vision

your_project_name

TRAINING IMAGES

PERFORMANCE

PREDICTIONS

⚙️ Train

✓ Quick Test

⚙️

?

👤

🔍 Refine

📁 Add images

🗑️ Delete

Select all

Iteration

Workspace


Tags

+

tagged

untagged

Showing: all untagged images



Looks like you don't have any images here!

Go ahead and browse for images to upload to your project, tag them, and they will be ready to be trained.

Add images

?

untagged のカテゴリーに
画像ファイルが無くなったら、
tagged をクリックします

Custom Vision: your_prj

https://customvision.ai/projects/6f0dacf8-ce8d-428a-9f47-1aa02d00081a#/manage

Custom Vision

your_project_name

TRAINING IMAGES

PERFORMANCE

PREDICTIONS

Train

Quick Test

Refine

Add imagesDeleteSelect all

Iteration

Workspace
















Tags

taggeduntagged


Showing: all tagged images

Search for

☐ tsubasa 15



Train をクリックして、オブジェクト自動検出モデルの学習を行います



Custom Vision: your_pr...

← → ↺ 🏠

https://customvision.ai/projects/6f0dacf.../performance

📖 ☆ ⭐ 🖋️ 📄 ...

🏠 Custom Vision your_project_name

TRAINING IMAGES PERFORMANCE PREDICTIONS

⚙️ Train

✓ Quick Test

⚙️ ? 👤

📁 Iterations

🌐 Prediction URL ✓ Make default 🗑️ Delete

Probability Threshold: 15% ⓘ
Overlap Threshold: 30% ⓘ

Iteration 1
Trained : moments ago
with General domain

学習が完了したら、Prediction URL を
クリックします

Finished training on 2018年5月28日 12:46:11 using General domain

Precision ⓘ

50.0%

Recall ⓘ

66.7%

M.A.P. ⓘ

76.7%

Performance Per Tag

Tag	Precision	Recall	M.A.P.
tsubasa	50.0%	66.7%	76.7%

?

Custom Vision: your_pr...

https://customvision.ai/projects/6f0dacf...ce8d-428a-9f47-1aa02d00081a#/performance

Custom Vision

your_project_name

TRAINING IMAGES

PERFORMANCE

PREDIC...

Iterations

Prediction URL

Make default

Delete

Probability Threshold: 15%

Overlap Threshold: 30%

Iteration 1

Trained : 4 minutes ago with General domain

Iteration 1

Finished training on 2018年5月28日 12:46:11 using General domain

Precision 50.0%

Recall 66.7%

Performance Per Tag

Tag	Precision	Recall	M.A.P.
tsubasa	50.0%	66.7%	76.7%

How to use the Prediction API

If you have an image URL:
https://southcentralus.api.cognitive.microsoft.com/customvision/v2.0/Predictic
Set Prediction-Key Header to : 514fe237d75245cf83087347ef1e0b5e
Set Content-Type Header to : application/json
Set Body to : {"Url": "https://example.com/image.png"}
If you have an image file:
7-1aa02d00081a/image/iterationId-e81603cd-a3de-4ec2-8f35-fa943d1fbb85
Set Prediction-Key Header to : 514fe237d75245cf83087347ef1e0b5e
Set Content-Type Header to : application/octet-stream
Set Body to : <image file>
Remember, you can mark an iteration as Default so you can send data to it without specifying an iteration id. You can then change which iteration your app is pointing to without having to update your app.

- https://southcentralus.api.cognitive.microsoft.com/~image までの URI
- IterationId の値
- Predaction-Key の値

の 3 つを書き留めておきます

Got it!

設定画面

Custom Vision API エンドポイント (「?」以降のURLパラメータは除く)
例 : https://southcentralus.api.cognitive.microsoft.com/customvision/v2.0/Prediction/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/image

IterationId (URLパラメータ : IterationId の値をセット) ※トレーニング実施の度に新しい ID が付与されます

Prediction Key (HTTP ヘッダー : Prediction-Key の値をセット)

信頼確率の初期値 (オブジェクトを検出する際の閾値 ⇒ 例: 0.5)

設定の保存

CustomVisionObjDetectWpfApp アプリを起動し、前頁で書き留めておいた以下 3 項目

- https://southcentralus.api.cognitive.microsoft.com/~/image までの URI
- IterationId の値
- Prediction-Key の値

を上記の設定画面の各項目に設定し、「設定の保存」をクリックしてください