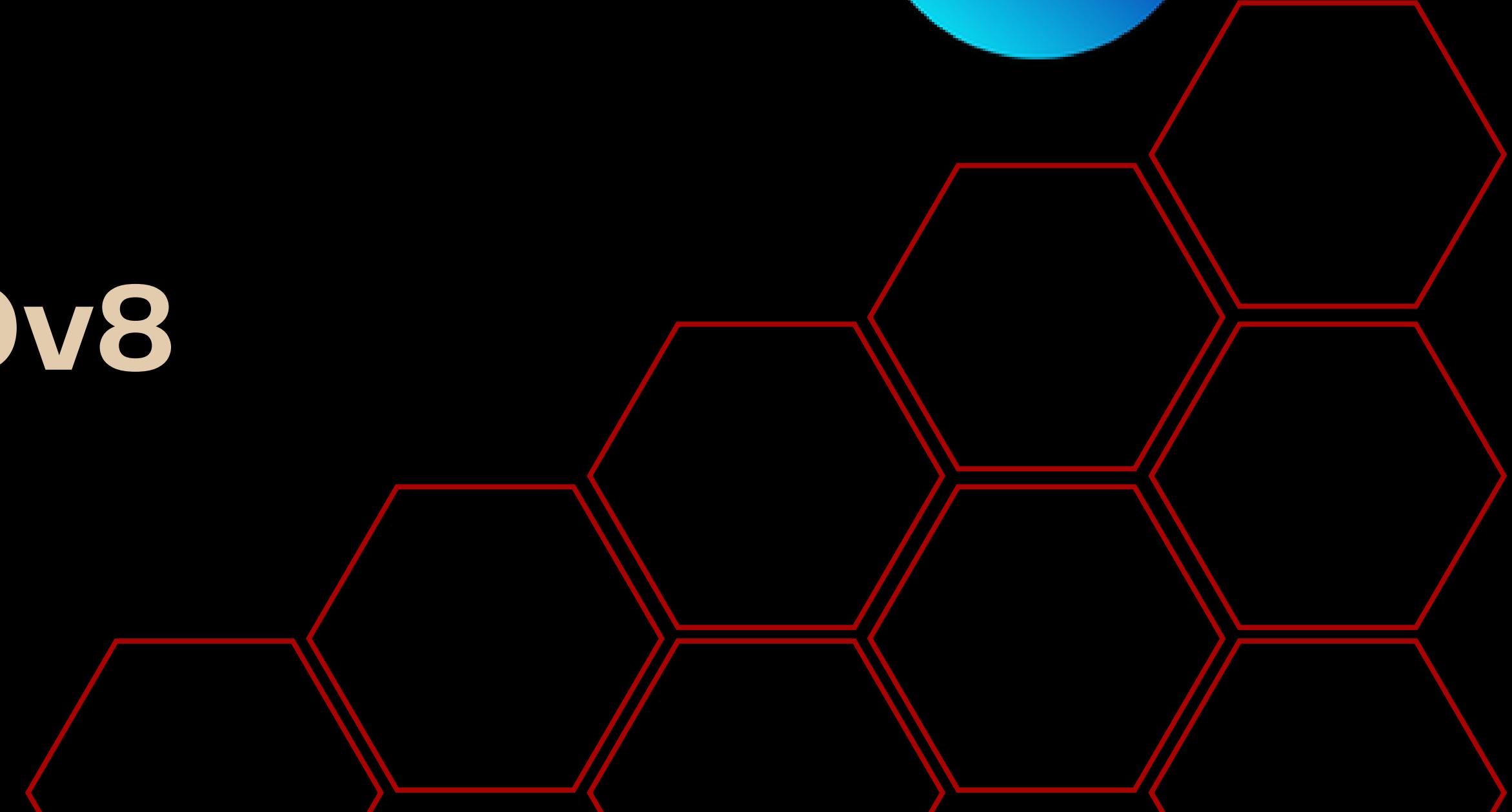




การใช้งาน YOLOv8

YOLOv8 Inference



By U. Jirayu



Workflow



DATASETS

Label & Source



roboflow

Label & Source

roboflow

Product ▾

Solutions ▾

Resources ▾

Pricing

Docs

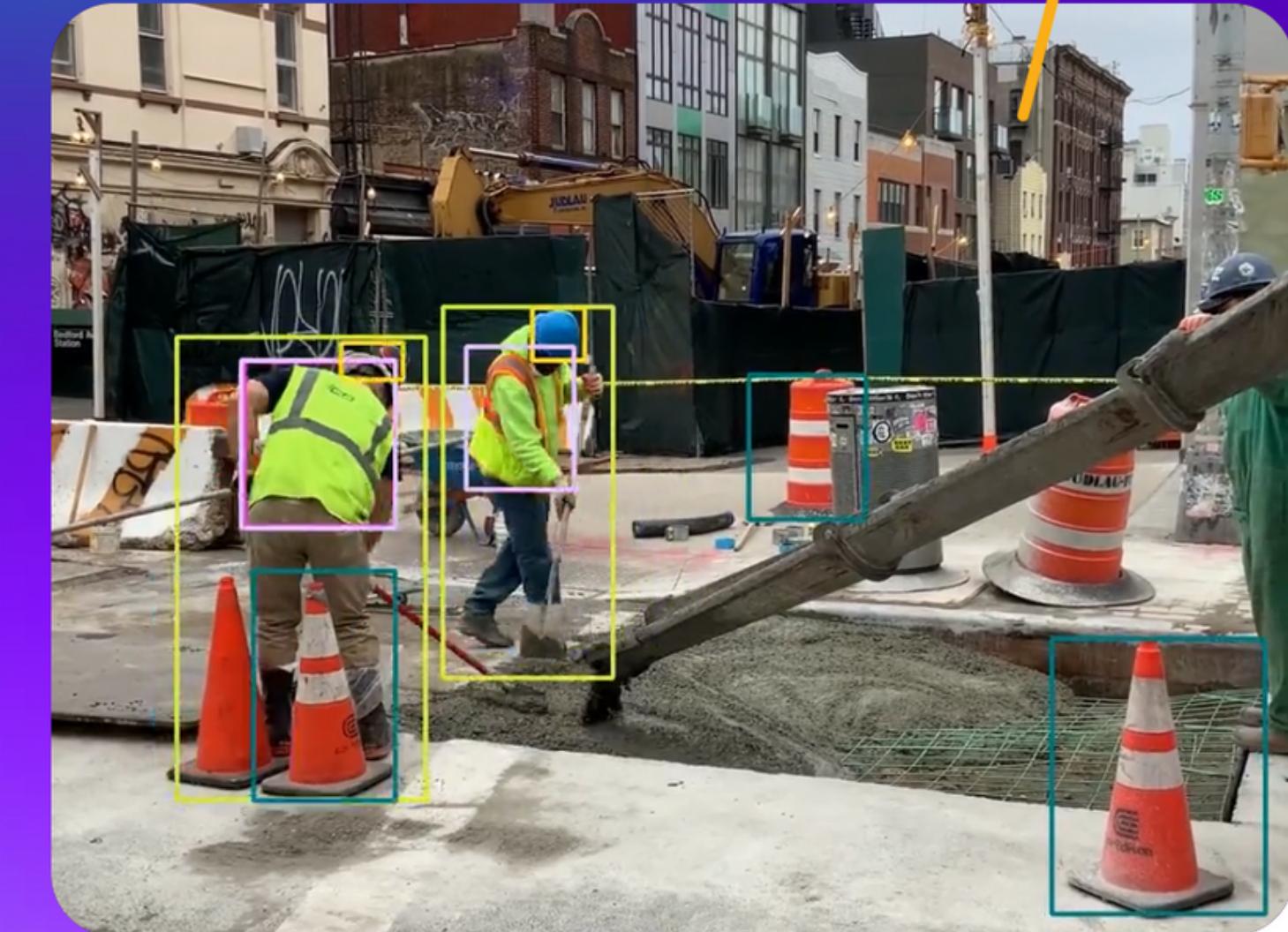
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models, and deploy to production.

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 [github](#) [homepage-demo](#)

අංතර්ජාල පිටපත Roboflow



roboflow

Sign In or Sign Up

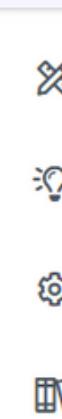
 Continue with Google

 Continue with Github

 Continue with Email

By continuing, you are indicating that you accept our
[Terms of Service](#) and [Privacy Policy](#).

ลงทะเบียนเข้าใช้งาน Roboflow



Public

BvoquEworkspace

2 Members ▾

Invite

Settings

Upgrade

Projects Workflows

Projects



Object Detection

Helmet Wearing Detection

Edited a month ago

Public • 555 Images • 4 Models



Object Detection

Helmet Wearing Detection

Edited 10 months ago

Public • 987 Images • 1 Models

+ Create New Project



Tasks



There are no tasks here yet!

Tasks will appear here once you have images to annotate, submit, or approve.

<https://app.roboflow.com/bvoqueworkspace#>

สร้างโปรเจคใหม่

Let's create your project.

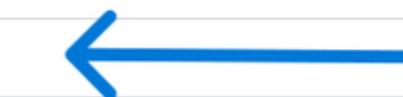
BvoquEworkspace > [New Public Project](#)

Project Name

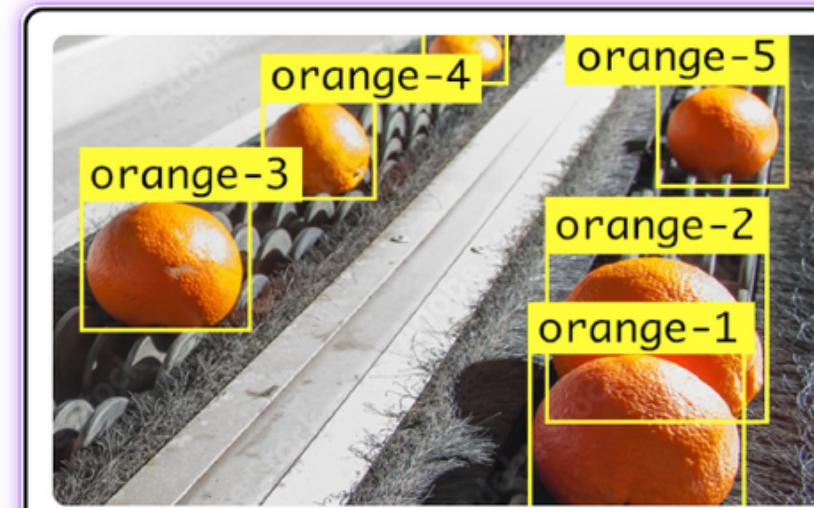
Yolov8 Inference

License [?](#)

CC BY 4.0



Project Type



Object Detection

Identify objects and their positions with bounding boxes.

Best For

Counting Tracking

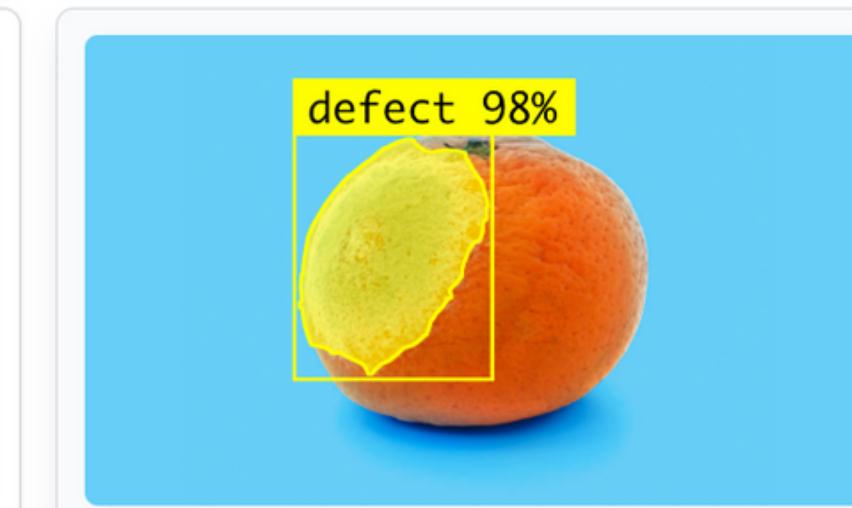


Classification

Assign labels to the entire image.

Best For

Filtering Content Moderation



Instance Segmentation

Detect multiple objects and their actual shape.

Best For

Measurements Odd Shapes

Cancel

Create Public Project



ตั้งชื่อโปรเจคและเลือกประเภทของ Dataset

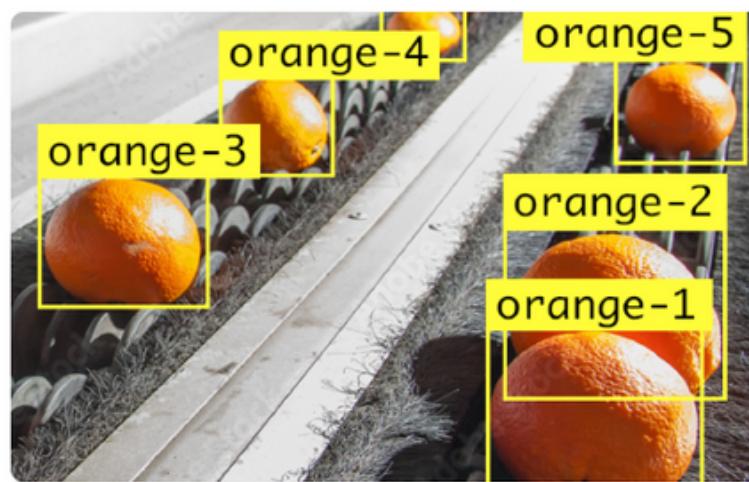
Project Name

Yolov8 Inference

License

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Project Type



Object Detection

Identify objects and their positions with bounding boxes.

Best For

Counting Tracking

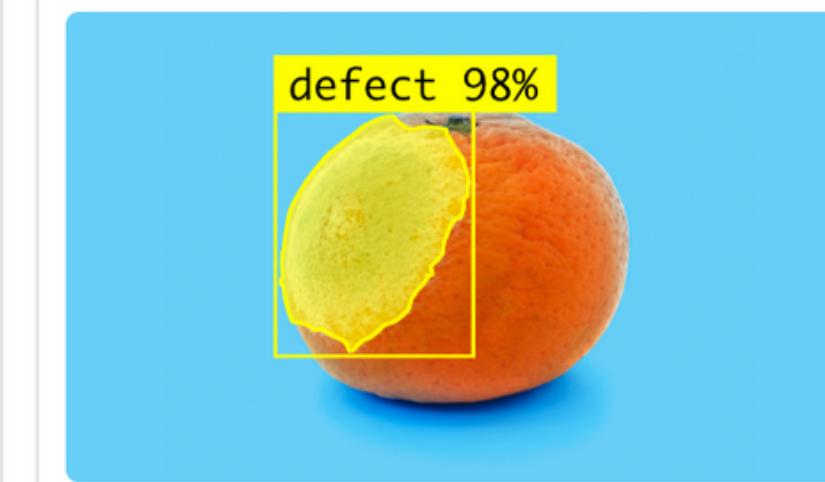


Classification

Assign labels to the entire image.

Best For

Filtering Content Moderation



Instance Segmentation

Detect multiple objects and their actual shape.

Best For

Measurements Odd Shapes

Show More ↓

Annotation Group

helmet



Cancel

Create Public Project

ตั้งชื่อโปรเจคและเลือกประเภทของ Dataset

BVOQUEWORKSPACE

**Yolov8 Inference :**

Object Detection

Data

Classes 0

Upload Data

Assign Images

Annotate

Dataset 0

Health Check

Generate

Versions

Models

Visualize

Deploy<https://universe.roboflow.com>**Upload**[Want to change the classes on your annotated images?](#)

Batch Name:

Uploaded on 02/25/24 at 10:38 am

Tags: [?](#)

Search or add tags for images...

**Drag and drop images and annotations to upload them.**

OR

Select Files**Select Folder**

Need images to get started? We've got you covered.

Import YouTube Video:e.g. <https://www.youtube.com/watch?v=dQw4w9WgXcQ>**Find a Universe Dataset →**

Browse over 100k free datasets for images and build a model in minutes.

Integrate Our API →

Collect real world images directly from your existing application.

**Upload images directly from cloud storage →**

Upload images and annotations directly from AWS, Azure or GCP

นำภาพอัพโหลดลงใน Roboflow

BVOQUEWORKSPACE



Yolov8 Inference :

Object Detection

Data

Classes 0

Upload Data

Assign Images

Annotate

Dataset 0

Health Check

Generate

Versions

Models

Visualize

Deploy

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Select Files

Select Folder

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Browse over 100k free datasets for images and build a model in minutes.

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Collect real world images directly from your existing application.



Upload images directly from cloud storage →

Upload images and annotations directly from AWS, Azure or GCP

นำภาพอัพโหลดลงใน Roboflow

SU
[W]alor
YouTube

Search 500,000+ Open Source Computer Vision Projects...



UNIVERSE



Helmet Wearing D...

Object Detection

Overview

Images

555

5

Dataset

Model

API Docs

Health Check



Roboflow Universe > BvoquEworkspace > Helmet Wearing Detection

★1 Helmet Wearing Detection Computer Vision Project

[Download this Dataset](#)[Try Pre-Trained Model](#)

SOURCE

BvoquEworkspace ↗

LAST UPDATED

A Month Ago

PROJECT TYPE

Object Detection

SUBJECT

helmet

CLASSES

not_wear wear

VIEWS: 255



DOWNLOADS: 16

LICENSE

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Object Detection

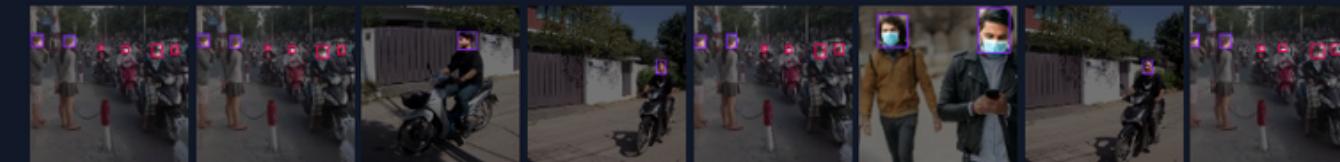
Model

yolov8

yolov8s

snap

Images



555 images

[Explore Dataset ↗](#)

Helmet-Wearing Detection

Using the YOLOv8 a state-of-the-art (SOTA) YOLO model to Detect > then control the microcontroller

[github](#)

Trained Model API

This project has a trained model available that you can [try in your browser](#) and use to get predictions via our Hosted Inference API and other deployment methods.

YOLOv8

This project has a [YOLOv8 model](#) checkpoint available for inference with [Roboflow Deploy](#). YOLOv8 is a new state-of-the-art real-time object detection model.

ດានໂຫຼດແລ້ວ Open Source ໃນ Roboflow Universe

Search 500,000+ Open Source Computer Vision Projects...



UNIVERSE

Helmet Wearing Detection

Object Detection

Overview

Images 555

Dataset 5

Model

API Docs

Health Check

Images[How to Search](#)[De-Select](#)[Select All](#)[Clone 50 Selected Images](#)

Search images

Split

Classes

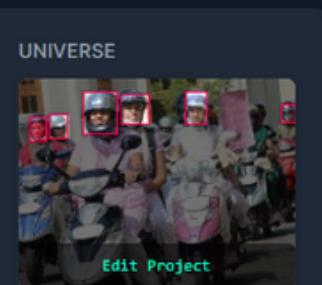
Sort By Newest

Search



ຕາວນໂກດແລ້ວ Open Source ໃນ Roboflow Universe

Search 500,000+ Open Source Computer Vision Projects...



Helmet Wearing D...

Object Detection

Overview

Images

555

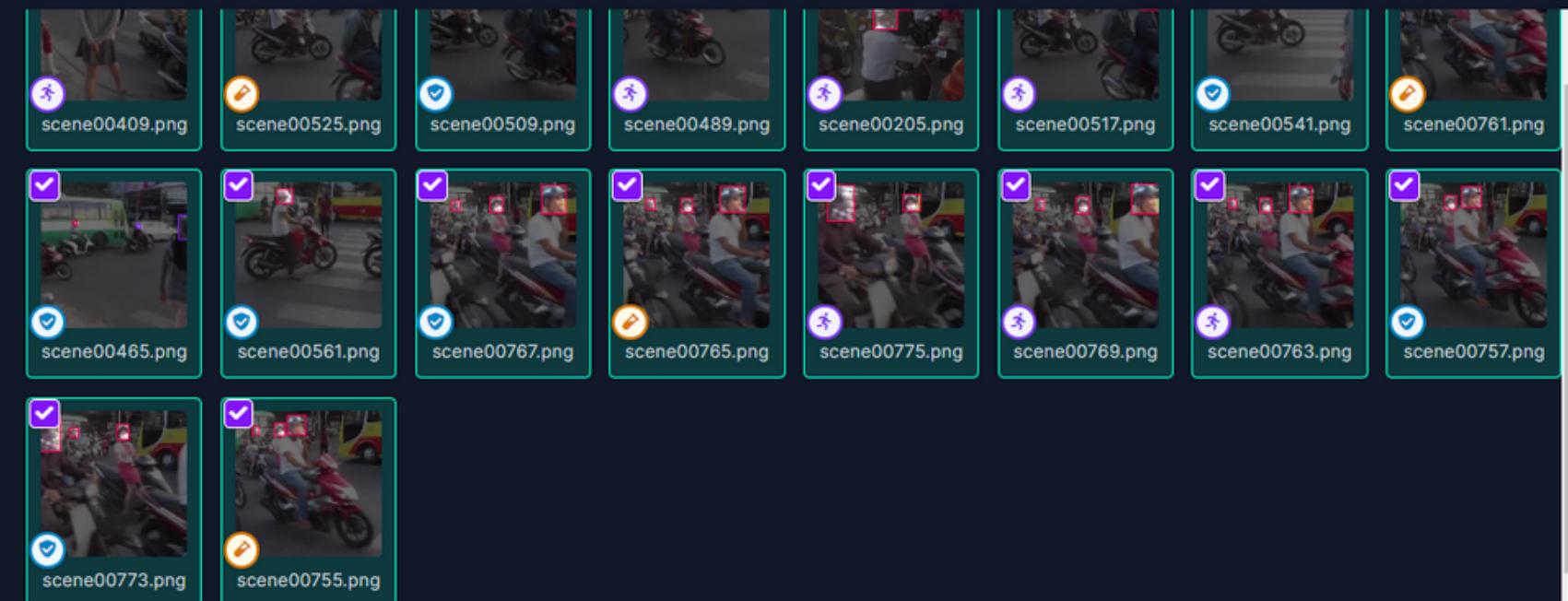
Dataset

5

Model

API Docs

Health Check



① Choose Destination

BVOQUEWORKSPACE > SELECT PROJECT

Yolov8 Inferenc...
OBJECT-DETECTION
Modified 6 minutes ago

Helmet Wearin...
OBJECT-DETECTION
Modified a month ago

Helmet Wearin...
OBJECT-DETECTION
Modified 10 months ago

② Edit Annotations

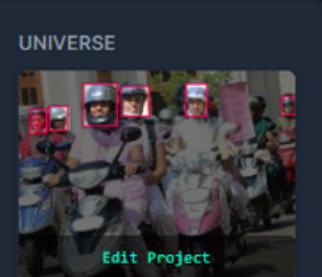
Cancel Finish Cloning 50 Images

Similar Projects

More like bvoqueworkspace/helmet-wearing-detection-7yx0s ↗

ດានໂຫຼາດແລ້ວ Open Source ໃນ Roboflow Universe

Search 500,000+ Open Source Computer Vision Projects...



Helmet Wearing D...

Object Detection

Overview

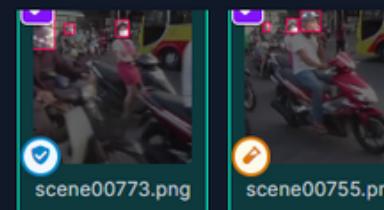
Images 555

Dataset 5

Model

API Docs

Health Check



① Choose Destination

BVOQUEWORKSPACE > YOLOV8 INFERENCE

Yolov8 Inferenc... OBJECT-DETECTION Modified 6 minutes ago

② Edit Annotations

 Import Images and Annotations Import Raw Images

Cancel

Finish Cloning 50 Images

แบบมีการแยกประเภทแล้ว (ถ้ามี)

Similar Projects

แบบdataset ดิบ

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New_Helmets02

SIDDIK WL HELMET-DETECTION 202 IMAGES

Object Detection

M.Vision

ALEC YONG ZI CHUN HELMET 1450 IMAGES

Object Detection

M.Vision 2

ALEC YONG ZI CHUN HELMET-SEGMENTATION 1450 IMAGES

Instance Segmentation

Helmet

SUPAWADEE THAMMANUT HELMET 269 IMAGES

Object Detection

Helmet_Detection

SUPAWADEE THAMMANUT HELMET-DETECTION 269 IMAGES

Object Detection

ดาวน์โหลดแบบ Open Source ใน Roboflow Universe

BVOQUEWORKSPACE



Yolov8 Inference :

Object Detection

Data

Classes

0

Upload Data

Assign Images

Annotate

Dataset

0

Health Check

Generate

Versions

Models

Visualize

Deploy

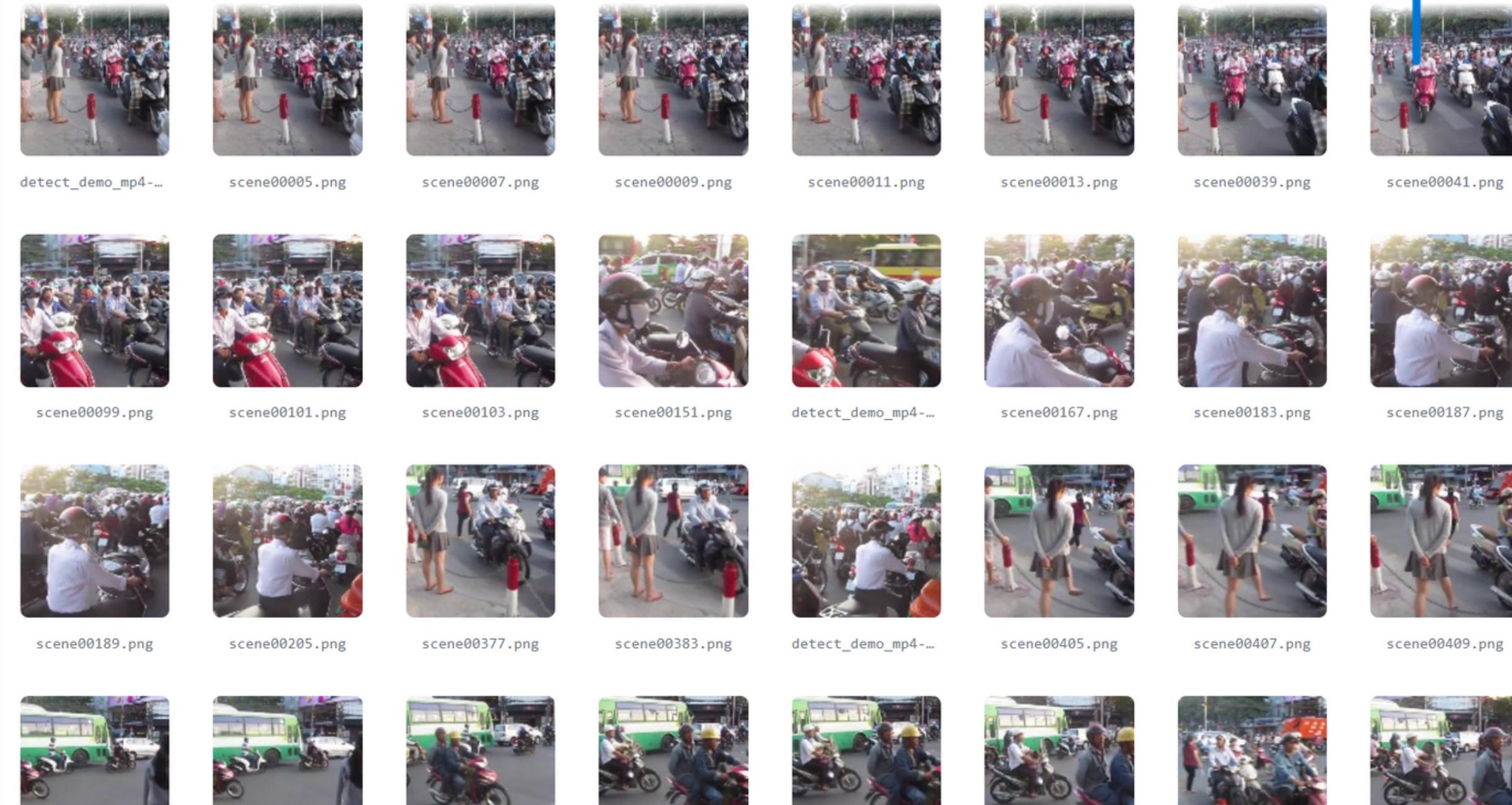
Upgrade

Batch Name: Clone on 2/25/2024 from bvoqueworkspace/Helmet Wearing Detection

Auto Label Images

Assign Images

X



Assign images

BVOQUEWORKSPACE



Yolov8 Inference :

Object Detection

Data

Classes

0

Upload Data

Assign Images

Annotate

Dataset

0

Health Check

Generate

Versions

Models

Visualize

Deploy

Upgrade

Clone on 2/25/2024 from bvoqueworkspace/Helmet Wearing Detection: Job 2

 Start Annotating

Add to Dataset

X

Progress

50 Images
0 Annotated
50 Unannotated

Instructions

No specific instructions were added when this job was assigned

Assignment

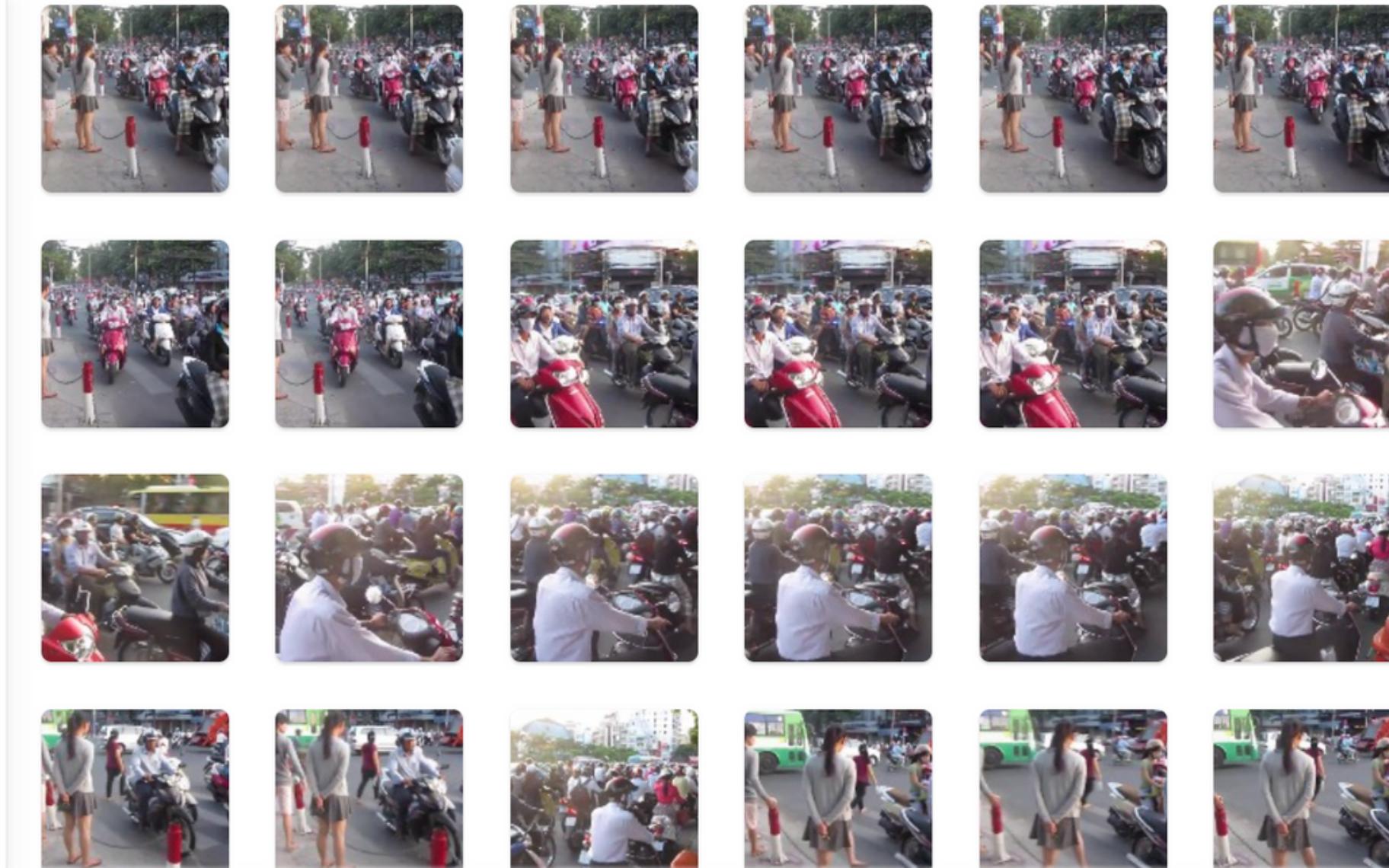
ジラユバンク
Labeler Edit Reassign

Timeline

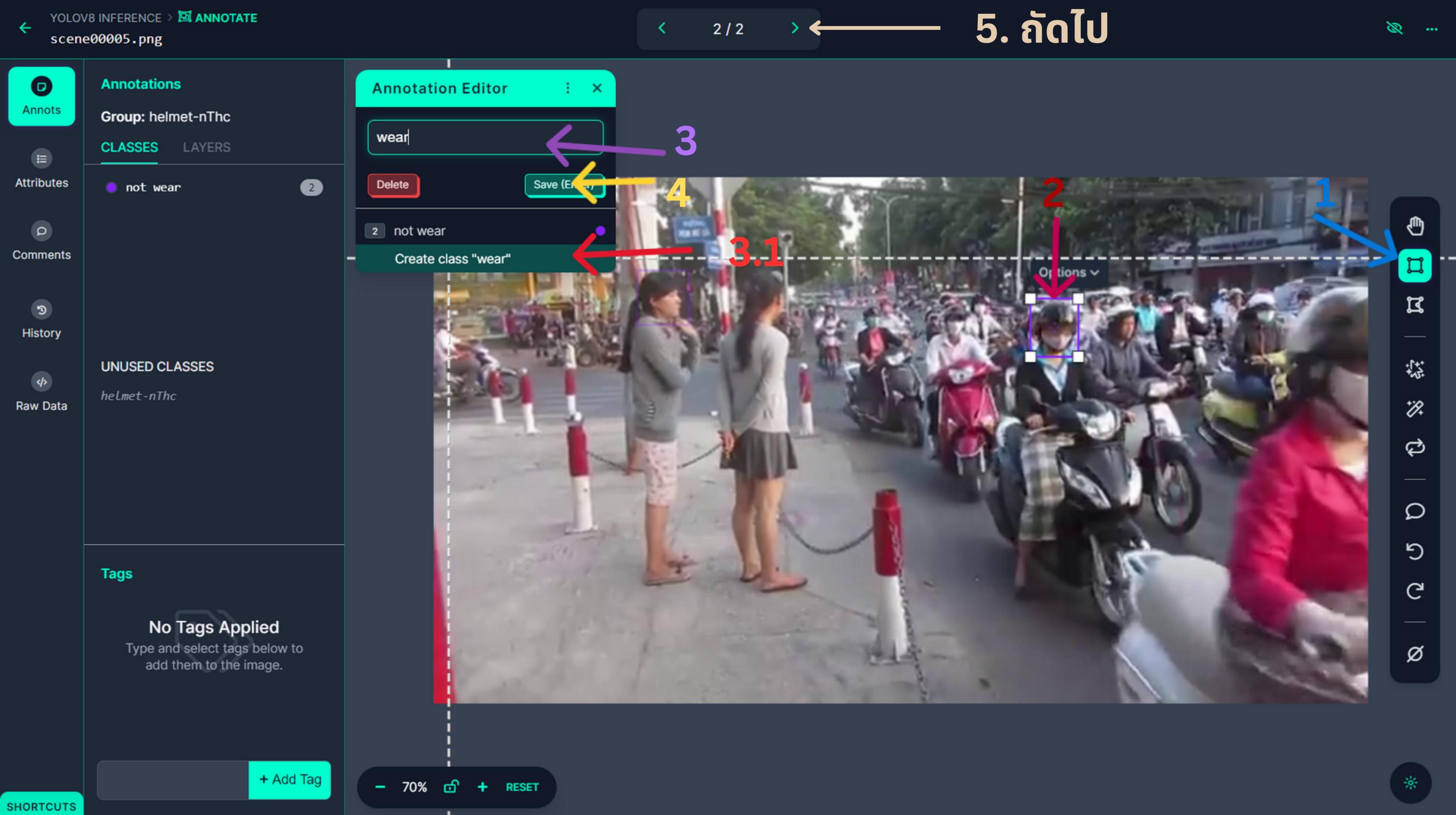
 ジラユバンク created this Job and assigned it to jirayubank10@gmail.com.
2/25/2024, 10:46:14 AM

Unannotated 50

Annotated 0



ເຮັດວຽກ



- 1 ເລືອກ Object Bounding Box
2. ຕຶກຮອບ
3. ເລືອກປະເກດ
- 3.1. ພາກຍັງໄມ້ນີ້ class
4. ຍືນຍັນ

ແຢກປະເກດ

BVOQUEWORKSPACE



Yolov8 Inference :

Object Detection

Data

Classes

3

Upload Data

Assign Images

Annotate

Dataset

0

Health Check

Generate

Versions

Models

Visualize

Deploy

Upgrade

Classes

Add Classes

Modify Classes

 Lock Annotation Classes

Locking classes will prevent new classes from being added to the project from any source. This includes in the Annotation Tool, using Label Assist, and uploading new annotation classes.

Color

Class Name



helmet-nThc



not wear



wear

เลือก Classes

แก้ไข class

การจัดการ class

BVOQUEWORKSPACE



Yolov8 Inference :

Object Detection

Data

Classes

3

Upload Data

Assign Images

Annotate

Dataset

0

Health Check

Generate

Versions

Models

Visualize

Deploy

Upgrade

Classes

 Lock Annotation Class

Color



Save and Continue →

Add Classes

Modify Classes

Modify Classes

X

Update and delete class labels in your dataset. This action cannot be undone.

Class Name	Override	Delete
helmet-nThc	<input type="text"/>	<input checked="" type="checkbox"/>
not wear	<input type="text"/> เปลี่ยนชื่อ	<input type="checkbox"/>
wear	<input type="text"/>	<input type="checkbox"/>

Cancel

Apply Changes

เลือก Class ที่ต้องการ

แก้ไข class

การจัดการ class



TRAIN



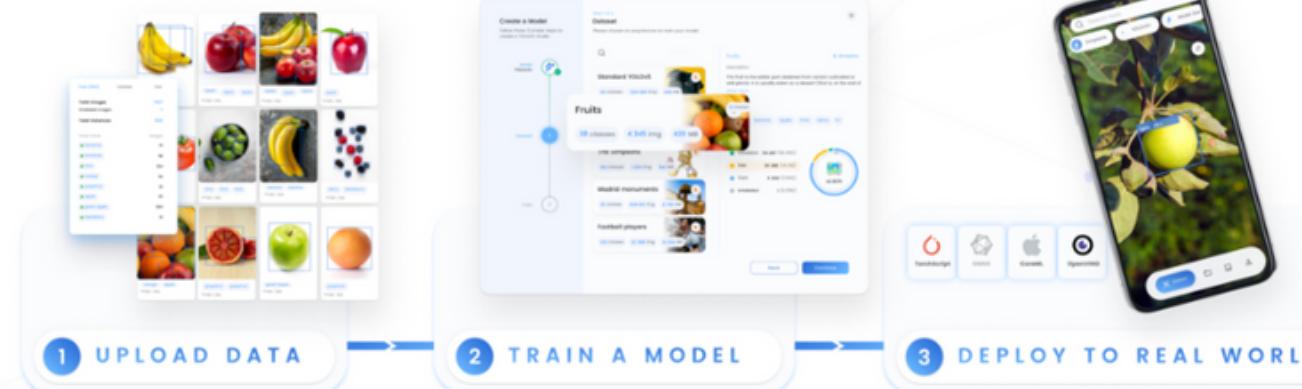
Train & Export



Visualize, train, and deploy all your YOLOv5 and YOLOv8 🚀 models in one place for free.

Ultralytics HUB is our NEW no-code solution to visualize your data, train AI models, and deploy them to the real world in a seamless experience brought to you by the creators of YOLOv5 and YOLOv8!

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Password

Sign In

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ເຂົ້າ Ultralytics Hub ແລະລັບເປົ່າ



[Get my API key](#)

Your Roboflow API key is unique per workspace. Add an API key for every workspace you would like to integrate.

Workspace Private API key

.....



Add

Feedback

Integrations

Integrate third-party applications into your account.

Interested in an integration? Let us know.

[Request integration](#)



v0.1.36

ກັບຈາກລອທະເບີນແລ້ວໃຫ້ໄປທີ່ Integrations



Get my API key

Your Roboflow API key is unique per workspace. Add an API key for every workspace you would like to integrate.

1 Integrations

Workspace Private API key

.....



Add

Feedback

Linked workspaces



bvoqueworkspace

Unlink

Integrations

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Request integration



v0.1.36

จากนั้น redirect ไปที่ Roboflow API (2)

ACCOUNT

[Login & Security](#)[Contact Support](#)

WORKSPACES

[BvoquEworkspace](#)[Plan & Billing](#)[Usage](#)[Members](#)[Roboflow API](#)[Third Party Keys](#)

Settings for BvoquEworkspace

[Back to Workspace](#)

Workspace API

API keys are revokable credentials used to integrate the Roboflow API into your application. Use your keys to perform inference on your models and upload images directly to your project from outside sources.

[Roboflow API Documentation »](#)Publishable API Key (for [roboflow.js](#))

rf_S79RZ6u4u5YISPG9zBzDH5SW0Rj1

[Copy](#)Private API Key (for [inference](#) and [REST API](#))

.....

[Show](#)[Copy](#)[Revoke API Key](#)[Copy](#)

คัดลอก Private API key จาก Roboflow



Get my API key

Your Roboflow API key is unique per workspace. Add an API key for every workspace you would like to integrate.

Workspace Private API key

.....

Add
Paste

Add

Feedback

Integrations

Integrate third-party applications into your account.

Interested in an integration? Let us know.

Request integration



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ចាន់នូវ Roboflow Workspace



Get my API key

Your Roboflow API key is unique per workspace. Add an API key for every workspace you would like to integrate.

Workspace Private API key

.....



Add

Feedback

Linked workspaces



bvoqueworkspace

← Roboflow Workspace

Unlink

Integrations

Integrate third-party applications into your account.



Interested in an integration? Let us know.



Integrated with Roboflow.

X

v0.1.36

ເມື່ອສໍາເລັດຈະປາກນູ້ Roboflow Workspace



Home >
Models



Search

YOLOv5su

COCO2017

mAP 43.0

size 166.5 MB

YOLOv8m

COCO2017

mAP 50.2

size 463.0 MB

YOLOv8s

COCO2017

mAP 44.9

size 308.4 MB

YOLOv8x

COCO2017

mAP 53.9

size 716.8 MB

YOLOv8l

COCO2017

mAP 52.9

size 458.9 MB

YOLOv5x6u

COCO2017

mAP 56.8

size 445.7 MB

YOLOv5l6u

COCO2017

mAP 55.7

size 247.4 MB

Train Config

Train Model

ไปที่ Models จากนั้น Train Model เพื่อตั้งค่าการ Train

Train a Model
Follow these 3 simple steps

Step 1 of 3
Dataset

Dataset 1

Model 2

Train 3

Roboflow Dataset

Search

846 images 31.3 GB

Helmet Wearing De... 2 classes 987 images 2 versions

Helmet Wearing De... 2 classes 555 images 6 versions

Helmet Wearing Detection

Classes (2)
not_wear wear

Data split

● Train	318 (57.3%)
● Validation	138 (24.9%)
● Test	99 (17.8%)
● Unlabelled	0 (0.0%)

roboflow

Version

Roboflow Version 6

Continue

ເລືອກ Dataset ຖໍາມາກ roboflow ແລະ Continue

Train a Model
Follow these 3 simple steps

Dataset
Helmet Wearing Detection

Model
2

Train
3

Step 2 of 3
Model

Project
Helmet-Detection

Model name
Model - 26 February 2024 12:22

Detect Architectures

YOLOv8

- YOLOv8n
- YOLOv8s
- YOLOv8m
- YOLOv8l
- YOLOv8x

YOLOv5u

- YOLOv5nu
- YOLOv5su
- YOLOv5mu
- YOLOv5lu
- YOLOv5xu

YOLOv5u6

- YOLOv5n6u
- YOLOv5s6u
- YOLOv5m6u
- YOLOv5l6u
- YOLOv5x6u

Accuracy - 44.9 %

Speed - 128.4 ms

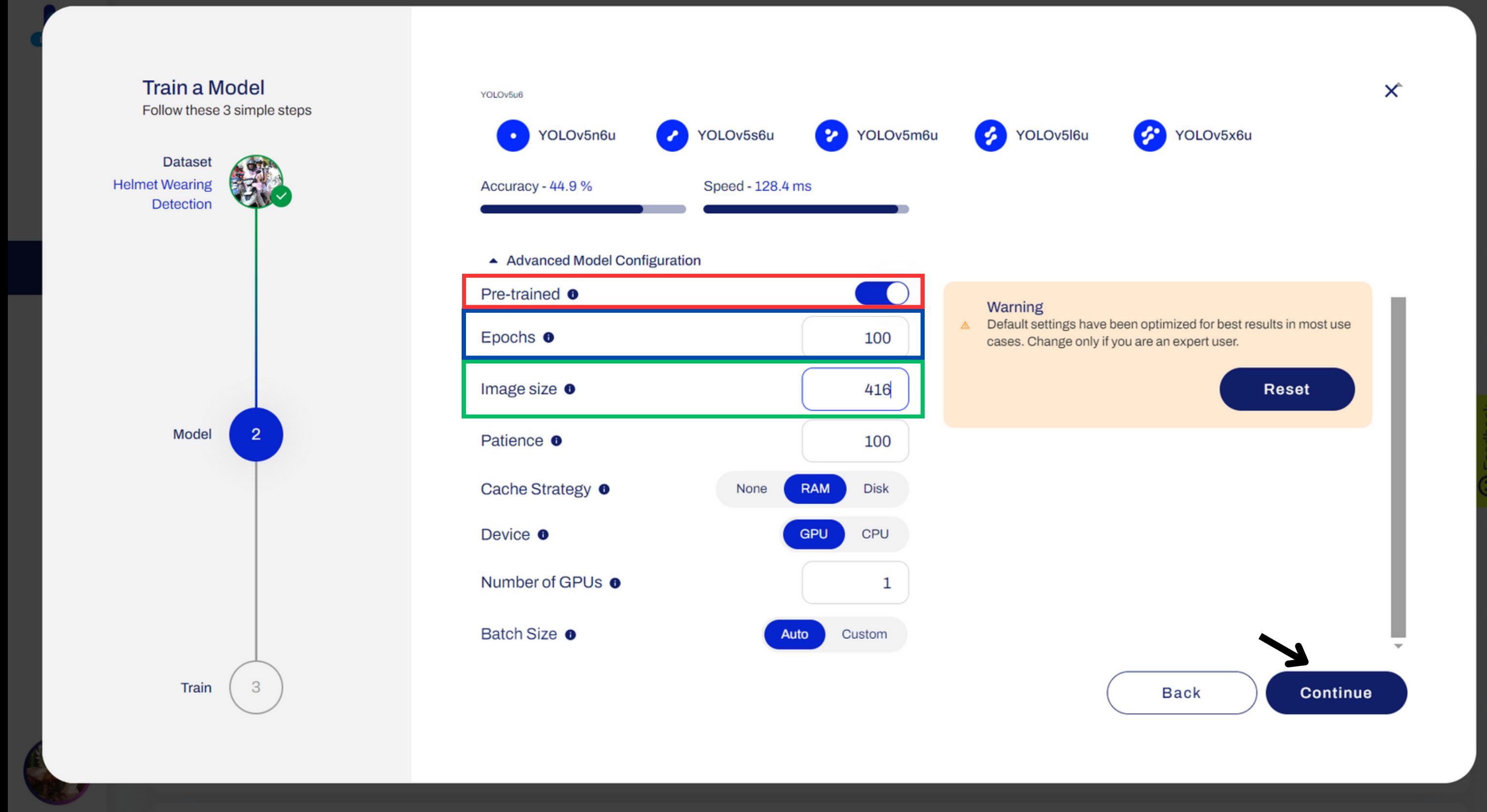
Advanced Model Configuration

Back Continue

v0.1.36

Feedback

ที่ Models ที่เหมาะสมและตั้งค่าเพิ่มเติม



การตั้งค่าเพิ่มเติม และ continue

Train a Model
Follow these 3 simple steps

Dataset
Helmet Wearing Detection

Model
YOLOv8s

Train 3

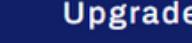
Step 3 of 3
Train

 Ultralytics Cloud

 Google Colab

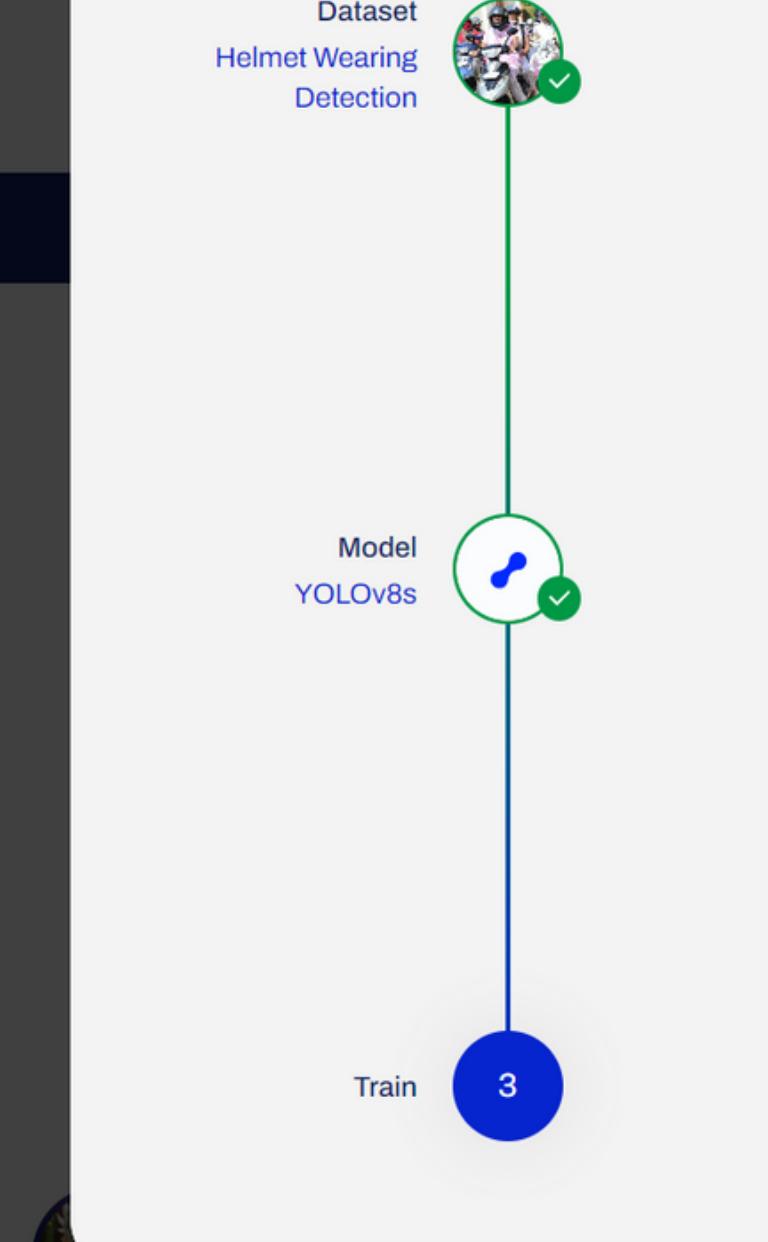
 Bring your own agent



 Upgrade

Back Start Training

v0.1.36



A black arrow points from the 'Google Colab' section to the 'Ultralytics Cloud' section.

Run Google Colab (in Ultralytics Hub)

Train a Model
Follow these 3 simple steps

Dataset
Helmet Wearing Detection

Model
YOLOv8s

Train 3

Step 3 of 3
Train

Ultralytics Cloud Google Colab Bring your own agent

Step 1
Click to copy the Colab code

```
hub.login('8a40c65f7921187eae526ea296bc477c5e6f5616ef')  
  
model = YOLO('https://hub.ultralytics.com/models/ZPwXaKrKb9VSVLGOhxNE')  
results = model.train()
```

Step 2
Follow the steps on the Google Colab notebook

Open Google Colab

Waiting for connection

Copy

Back Done

Copied to Clipboard

<https://colab.research.google.com/github/ultralytics/hub/blob/main/hub.ipynb>

v0.1.36

คัดลอกโค้ดและ Open Google Colab

CO Ultralytics HUB

File Edit View Insert Runtime Tools Help

+ Code + Text Copy to Drive

Share 

Connect GPU 

Download the App

Try now

中文 | 한국어 | 日本語 | Русский | Deutsch | Français | Español | Português | हिन्दी | العربية

HUB CI failing Open in Colab

Welcome to the [Ultralytics](#) HUB notebook!

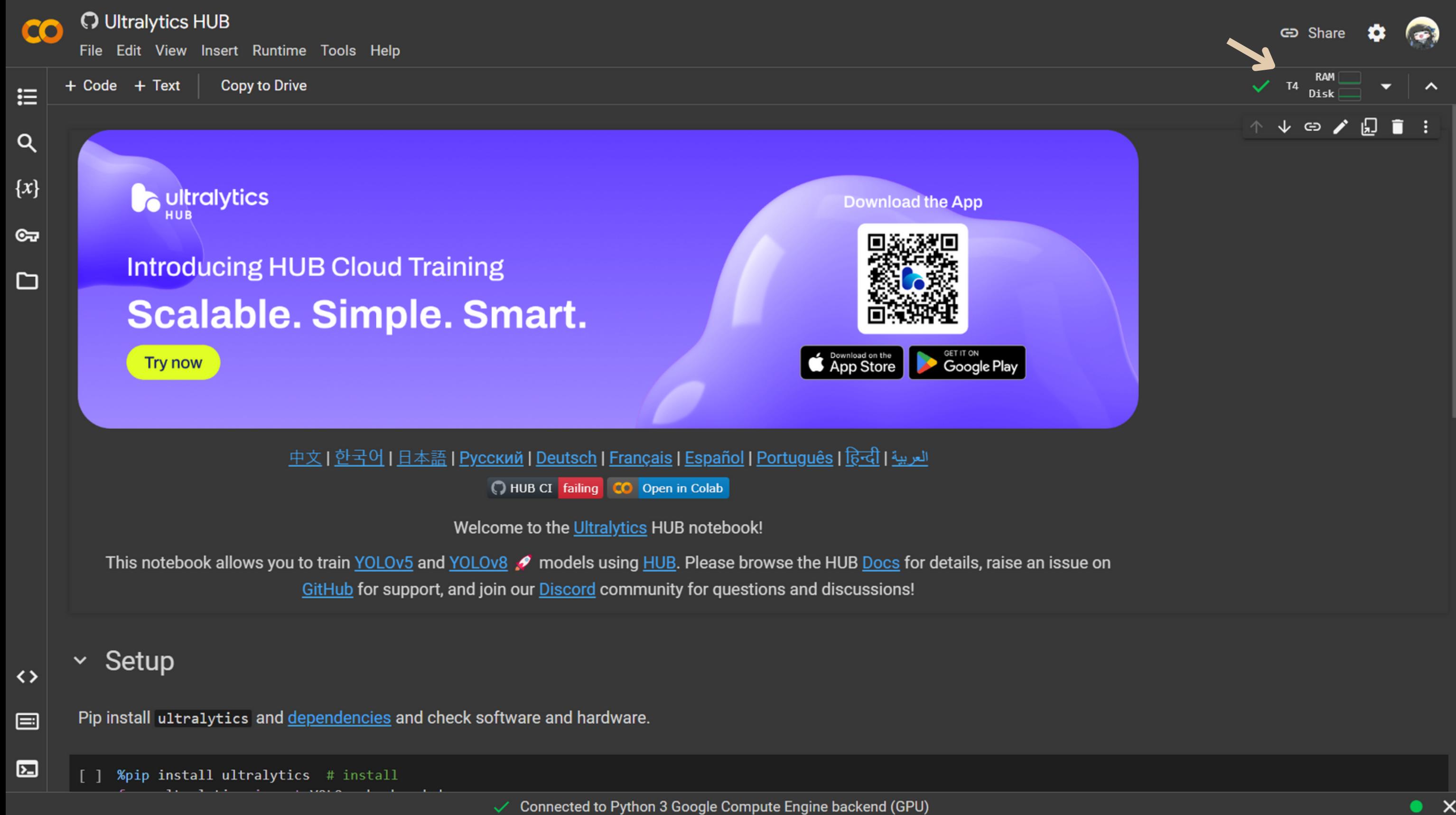
This notebook allows you to train [YOLOv5](#) and [YOLOv8](#) 🚀 models using [HUB](#). Please browse the [HUB Docs](#) for details, raise an issue on [GitHub](#) for support, and join our [Discord](#) community for questions and discussions!

Setup

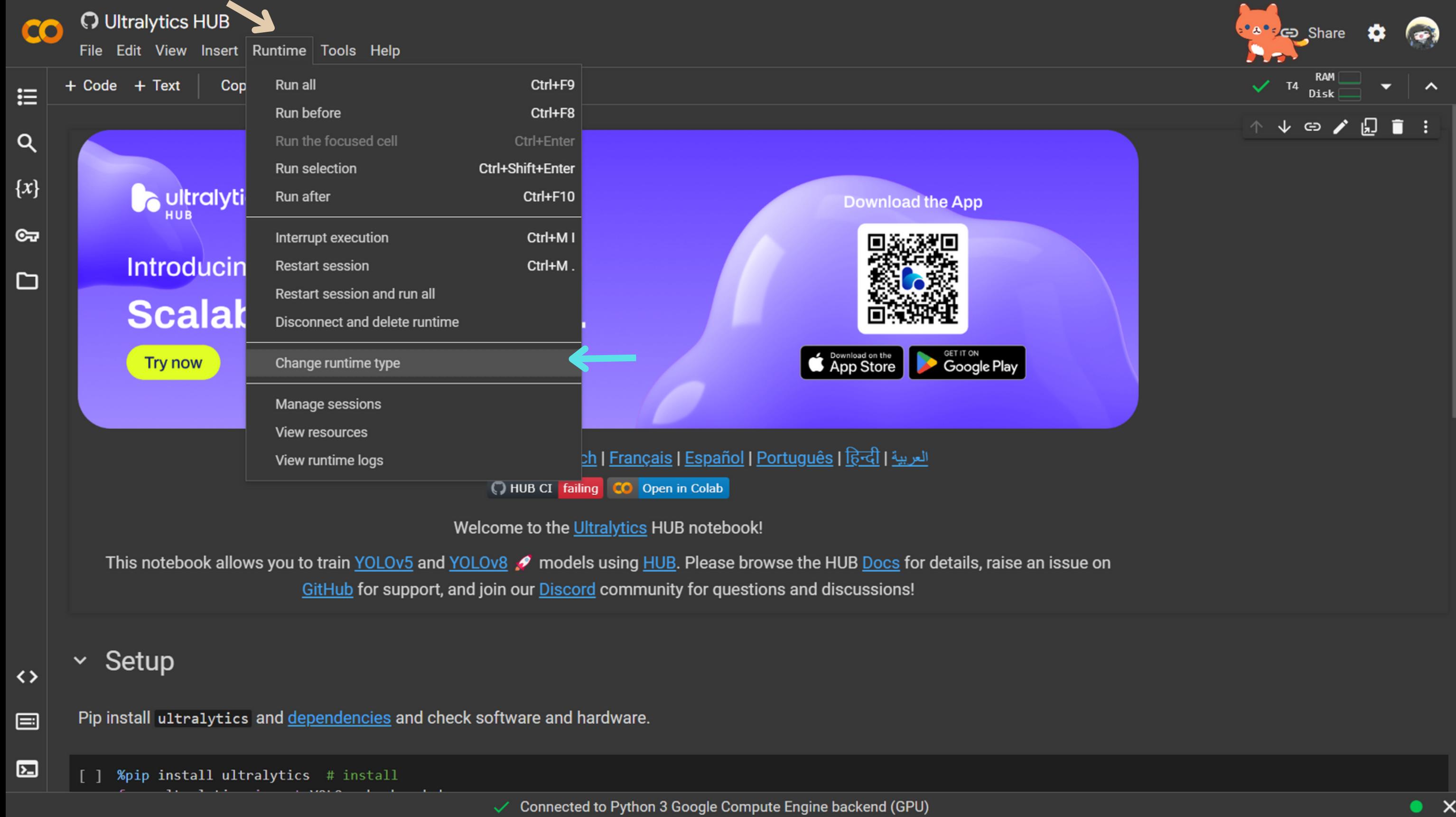
Pip install `ultralytics` and [dependencies](#) and check software and hardware.

```
[ ] %pip install ultralytics # install
```

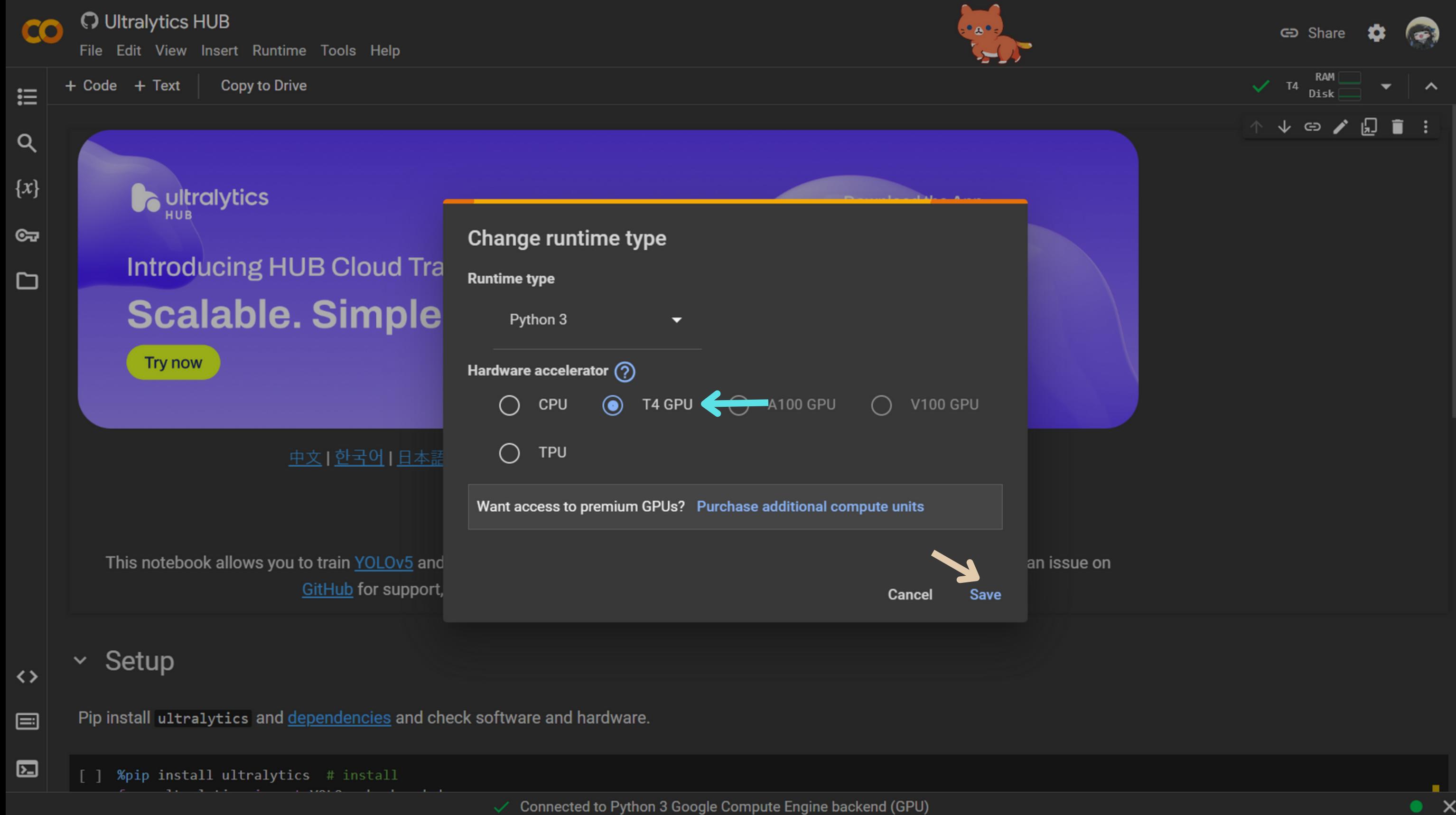
เชื่อมต่อ กับ Google Colab Server



ទរគសទបវា^៩ GPU T4 កនឹង



(ถ้าไม่) ไปที่ Runtime > Change runtime type



เลือก T4 GPU และ Save



+ Code + Text Copy to Drive

Welcome to the Ultraalytics HUB notebook!

This notebook allows you to train YOLOv5 and YOLOv8 🚀 models using HUB. Please browse the HUB [Docs](#) for details, raise an issue on [GitHub](#) for support, and join our [Discord](#) community for questions and discussions!

{x}

Setup

Pip install `ultraalytics` and [dependencies](#) and check software and hardware.

```
[ ] %pip install ultraalytics # install
from ultraalytics import YOLO, checks, hub
checks() # checks
```

Ultraalytics YOLOv8.0.210 🚀 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)
Setup complete ✓ (2 CPUs, 12.7 GB RAM, 24.4/78.2 GB disk)

Start

Login with your [API key](#), select your YOLO 🚀 model and start training!

```
[ ] hub.login('API_KEY') # use your API key
model = YOLO('https://hub.ultraalytics.com/MODEL_ID') # use your model URL
results = model.train() # train model
```

Paste

วางโค้ดที่คัดลอกไว้ก่อนหน้านี้



+ Code + Text Copy to Drive

Welcome to the Ultraalytics HUB notebook!

This notebook allows you to train YOLOv5 and YOLOv8 🚀 models using HUB. Please browse the HUB [Docs](#) for details, raise an issue on [GitHub](#) for support, and join our [Discord](#) community for questions and discussions!

{x}

Setup

Pip install `ultraalytics` and [dependencies](#) and check software and hardware.

```
%pip install ultraalytics # install
from ultraalytics import YOLO, checks, hub
checks() # checks
```

Ultraalytics YOLOv8.0.210 🚀 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)
Setup complete ✓ (2 CPUs, 12.7 GB RAM, 24.4/78.2 GB disk)

Start

Login with your [API key](#), select your YOLO 🚀 model and start training!

```
hub.login('XXXXXXXXXX')
model = YOLO('https://hub.ultraalytics.com/models/ZPwXaKrKb9VSVLGOhxNE')
results = model.train()
```

Paste

Connected to Python 3 Google Compute Engine backend (GPU)

วางโค้ดที่คัดลอกไว้ก่อนหน้านี้ และทำการรันทุก Block



+ Code + Text | Copy to Drive

TensorBoard: Start with 'tensorboard --logdir runs/detect/train', view at <http://localhost:6006/>

Freezing layer 'model.22.dfl.conv.weight'.

AMP: running Automatic Mixed Precision (AMP) checks with YOLOv8n...

... Downloading <https://github.com/ultralytics/assets/releases/download/v8.1.0/yolov8n.pt> to 'yolov8n.pt'...

100%|██████████| 6.23M/6.23M [00:00<00:00, 99.6MB/s]

AMP: checks passed ✓

AutoBatch: Computing optimal batch size for imgsz=416

AutoBatch: CUDA:0 (Tesla T4) 14.75G total, 0.25G reserved, 0.12G allocated, 14.37G free

Params	GFLOPs	GPU_mem (GB)	forward (ms)	backward (ms)	input	output
11136374	12.1	0.333	37.02	160.3	(1, 3, 416, 416)	list
11136374	24.21	0.344	19.2	53.09	(2, 3, 416, 416)	list
11136374	48.42	0.499	19.28	49.39	(4, 3, 416, 416)	list
11136374	96.83	0.835	27.68	58	(8, 3, 416, 416)	list
11136374	193.7	1.546	34.77	60.34	(16, 3, 416, 416)	list

AutoBatch: Using batch-size 101 for CUDA:0 8.97G/14.75G (61%) ✓

train: Scanning /content/datasets/336sdLyrZ8/train/labels... 954 images, 0 backgrounds, 0 corrupt: 100%|██████████| 954/954 [00:00<00:00, 2005.25it/s] train: New cache

train: Caching images (0.5GB ram): 100%|██████████| 954/954 [00:02<00:00, 371.37it/s]

albumentations: Blur(p=0.01, blur_limit=(3, 7)), MedianBlur(p=0.01, blur_limit=(3, 7)), ToGray(p=0.01), CLAHE(p=0.01, clip_limit=(1, 4.0), tile_grid_size=(8, 8))

val: Scanning /content/datasets/336sdLyrZ8/valid/labels... 138 images, 2 backgrounds, 0 corrupt: 100%|██████████| 138/138 [00:00<00:00, 1396.87it/s] val: New cache

val: Caching images (0.1GB ram): 100%|██████████| 138/138 [00:00<00:00, 161.30it/s]

Plotting labels to runs/detect/train/labels.jpg...

optimizer: 'optimizer=auto' found, ignoring 'lr0=0.01' and 'momentum=0.937' and determining best 'optimizer', 'lr0' and 'momentum' automatically...

optimizer: AdamW(lr=0.001667, momentum=0.9) with parameter groups 57 weight(decay=0.0), 64 weight(decay=0.0007890625), 63 bias(decay=0.0)

TensorBoard: model graph visualization added ✓

Image sizes 416 train, 416 val

Using 2 dataloader workers

Logging results to runs/detect/train

Starting training for 100 epochs...

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1/100	10.4G	2.262	4.647	1.643	407	416: 40% ████ 4/10 [00:05<00:08, 1.44s/it]

✓ 0s completed at 12:24PM





Home > Models >

Model - 26 February 2024 12:22



2% Training in progress...

Training started on 26 February 2024 at 12:25 using Google Colab (v3.10.12)

98 epochs remaining

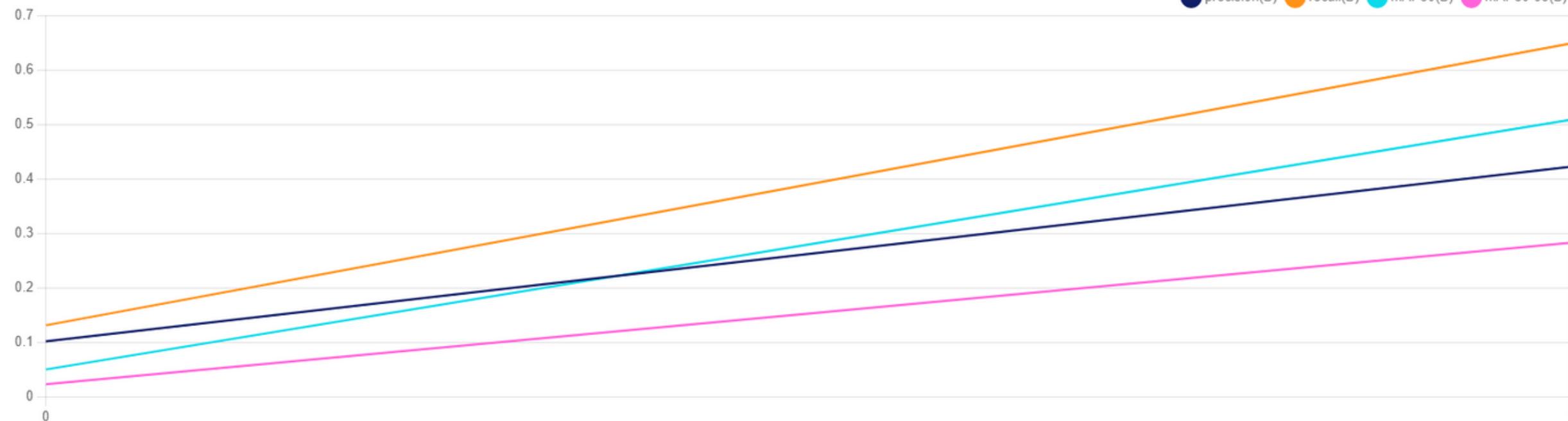
47 mins 51 secs



Metrics

Model accuracy measured on validation set

precision(B) recall(B) mAP50(B) mAP50-95(B)



Feedback

v0.136

Box Loss

Difference between predicted and true boxes



Class Loss

The accuracy of the classes in each detection



Object Loss

The detected objects



กลับไปที่ Ultralytics Hub จะมีข้อมูลต่างๆ ของ Model



Press F11 to exit full screen

✓ T4 RAM Disk

+ Code + Text | Copy to Drive

17m 17m Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
99/100 10.4G 0.4778 0.2799 0.8193 101 416: 100% [██████████] 10/10 [00:07<00:00, 1.40it/s]
Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 1/1 [00:01<00:00, 1.63s/it]
all 138 389 0.866 0.827 0.898 0.56

Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
100/100 10.4G 0.4852 0.2808 0.8246 134 416: 100% [██████████] 10/10 [00:07<00:00, 1.42it/s]
Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 1/1 [00:00<00:00, 1.01it/s]
all 138 389 0.866 0.826 0.897 0.558

100 epochs completed in 0.285 hours.
Optimizer stripped from runs/detect/train/weights/last.pt, 22.5MB
Optimizer stripped from runs/detect/train/weights/best.pt, 22.5MB

Validating runs/detect/train/weights/best.pt...
Ultralytics YOLOv8.1.18 🚀 Python-3.10.12 torch-2.1.0+cu121 CUDA:0 (Tesla T4, 15102MiB)
Model summary (fused): 168 layers, 11126358 parameters, 0 gradients, 28.4 GFLOPs

Class	Images	Instances	Box(P	R	mAP50	mAP50-95): 100% [██████████]	1/1 [00:01<00:00, 1.04s/it]
all	138	389	0.872	0.815	0.896	0.559	
not_wear	138	203	0.91	0.803	0.891	0.534	
wear	138	186	0.835	0.828	0.901	0.584	

Speed: 0.1ms preprocess, 2.1ms inference, 0.0ms loss, 1.5ms postprocess per image
Results saved to runs/detect/train
ultralytics HUB: Syncing final model...
100% [██████████] 21.5M/21.5M [00:02<00:00, 9.72MB/s] **ultralytics HUB:** Done ✓
ultralytics HUB: View model at <https://hub.ultralytics.com/models/ZPwXaKrKb9VSVLGOhxNE> 🚀

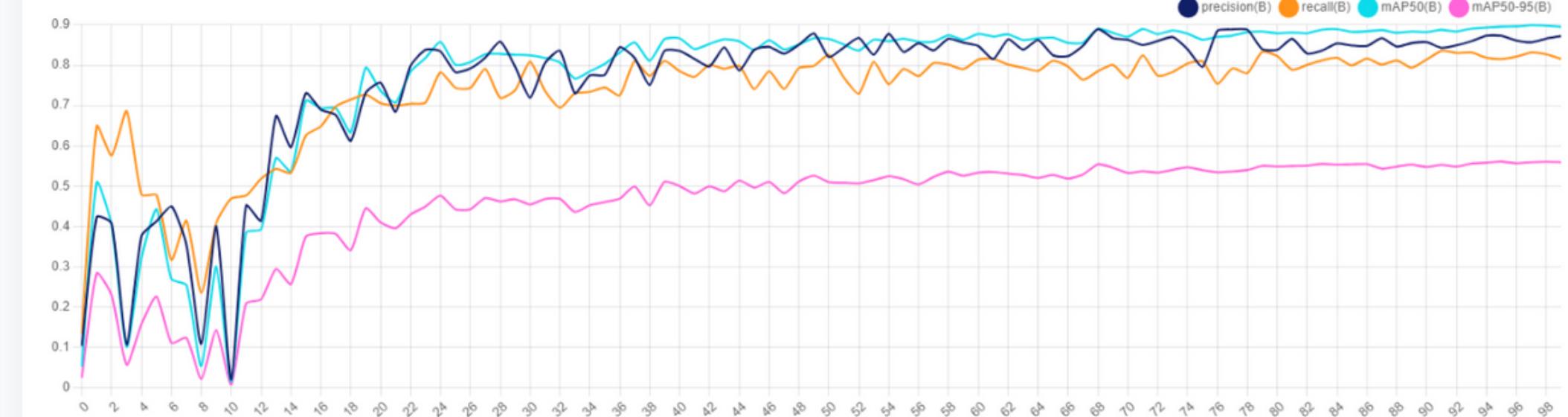
17m 55s completed at 12:42 PM

เมื่อการ Train เสร็จสิ้น (สามารถดูได้ใน Hub ส่วน Progress)



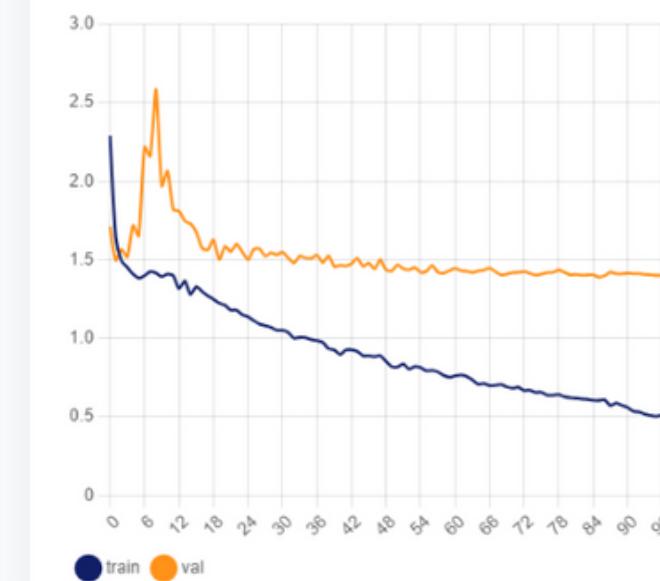
Metrics

Model accuracy measured on validation set



Box Loss

Difference between predicted and true boxes





Last updated in a few seconds



YOLOv8s Pretrained Yes Epochs 100 Image Size 416

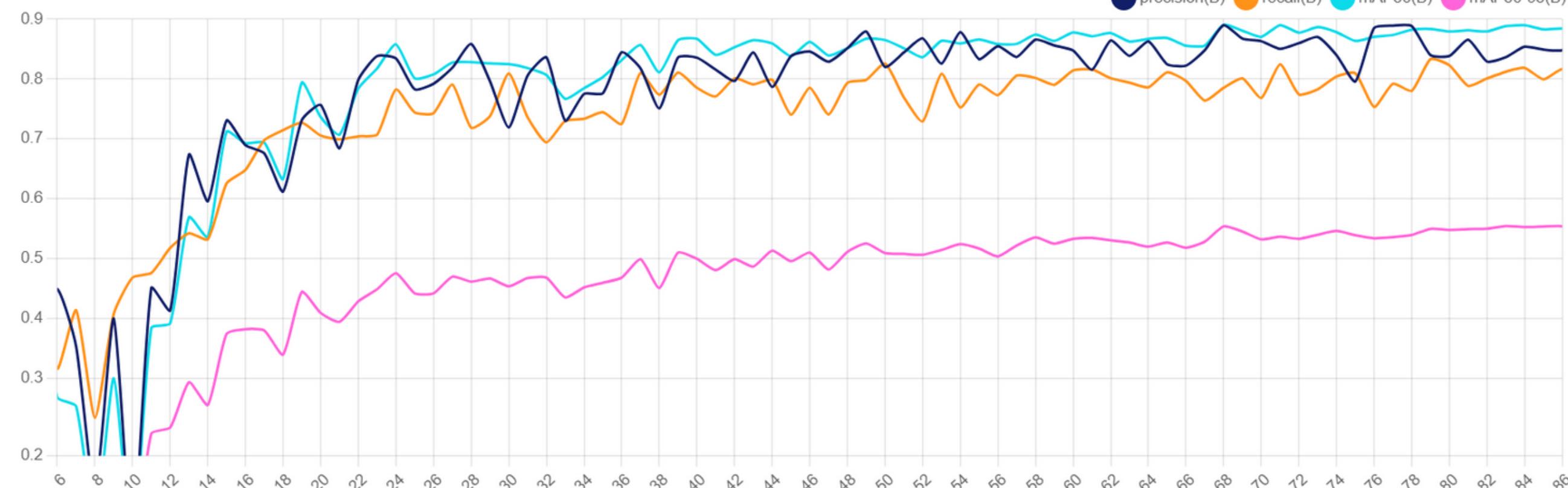


Train Charts Preview Deploy



Metrics

Model accuracy measured on validation set



Feedback

v0.1.36

ໃປຕໍ່ Deploy ເພື່ອດາວໂຫລດ Model ມາໃຫ້ງານ



Convert your model for cross platform inference



PyTorch
21.5 MB

Download



TorchScript



ONNX



OpenVINO



TensorRT

Coming Soon



CoreML



TensorFlow SavedModel



TensorFlow GraphDef



TensorFlow Lite



TensorFlow Edge TPU



TensorFlowJS



PaddlePaddle



NCNN

License

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Current License

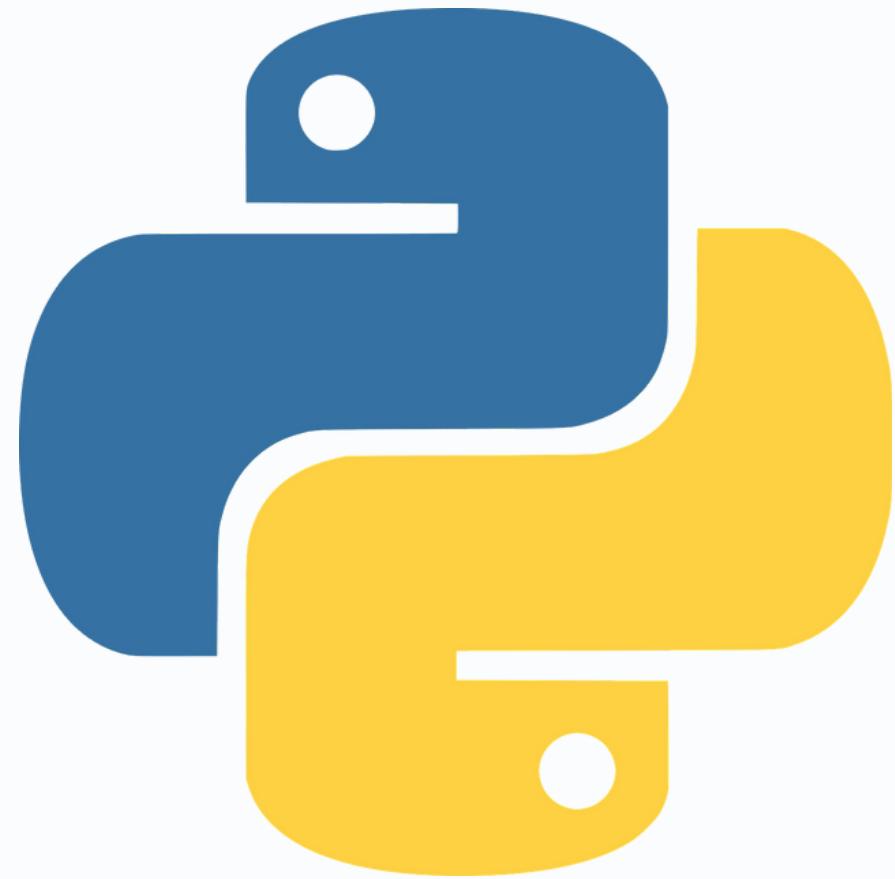
Feedback

v0.1.36

ເລືອກ platform ທີ່ໃຊ້ໃນທີ່ນີ້ຄວ້າ Pytorch (Default)



DEPLOY



Inference

Dependency ที่จำเป็นพร้อม Version
(ติดตั้งตาม Version)

ultralytics

version 8.0.196

supervision

version 0.15.0

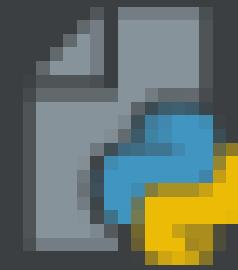
opencv-contrib-python

Argument	Type	Default	Description
source	str	'ultralytics/assets'	Specifies the data source for inference. Can be an image path, video file, directory, URL, or device ID for live feeds. Supports a wide range of formats and sources, enabling flexible application across different types of input.
conf	float	0.25	Sets the minimum confidence threshold for detections. Objects detected with confidence below this threshold will be disregarded. Adjusting this value can help reduce false positives.
iou	float	0.7	Intersection Over Union (IoU) threshold for Non-Maximum Suppression (NMS). Higher values result in fewer detections by eliminating overlapping boxes, useful for reducing duplicates.
imgsz	int or tuple	640	Defines the image size for inference. Can be a single integer 640 for square resizing or a (height, width) tuple. Proper sizing can improve detection accuracy and processing speed.
half	bool	False	Enables half-precision (FP16) inference, which can speed up model inference on supported GPUs with minimal impact on accuracy.
device	str	None	Specifies the device for inference (e.g., cpu, cuda:0 or 0). Allows users to select between CPU, a specific GPU, or other compute devices for model execution.
max_det	int	300	Maximum number of detections allowed per image. Limits the total number of objects the model can detect in a single inference, preventing excessive outputs in dense scenes.
vid_stride	int	1	Frame stride for video inputs. Allows skipping frames in videos to speed up processing at the cost of temporal resolution. A value of 1 processes every frame, higher values skip frames.
stream_buffer	bool	False	Determines if all frames should be buffered when processing video streams (True), or if the model should return the most recent frame (False). Useful for real-time applications.

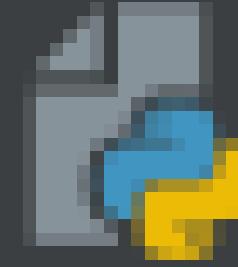
Inference Arguments

Argument	Type	Default	Description
show	bool	False	If <code>True</code> , displays the annotated images or videos in a window. Useful for immediate visual feedback during development or testing.
save	bool	False	Enables saving of the annotated images or videos to file. Useful for documentation, further analysis, or sharing results.
save_frames	bool	False	When processing videos, saves individual frames as images. Useful for extracting specific frames or for detailed frame-by-frame analysis.
save_txt	bool	False	Saves detection results in a text file, following the format <code>[class] [x_center] [y_center] [width] [height] [confidence]</code> . Useful for integration with other analysis tools.
save_conf	bool	False	Includes confidence scores in the saved text files. Enhances the detail available for post-processing and analysis.
save_crop	bool	False	Saves cropped images of detections. Useful for dataset augmentation, analysis, or creating focused datasets for specific objects.
show_labels	bool	True	Displays labels for each detection in the visual output. Provides immediate understanding of detected objects.
show_conf	bool	True	Displays the confidence score for each detection alongside the label. Gives insight into the model's certainty for each detection.
show_boxes	bool	True	Draws bounding boxes around detected objects. Essential for visual identification and location of objects in images or video frames.
line_width	None or int	None	Specifies the line width of bounding boxes. If <code>None</code> , the line width is automatically adjusted based on the image size. Provides visual customization for clarity.

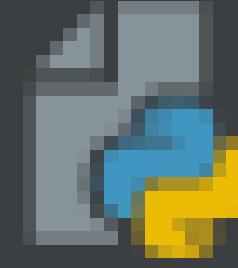
Virtualize Arguments



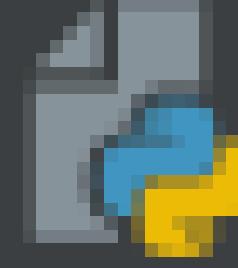
`basicInference.py`



`exportModel.py`



`inferenceUI.py`



`intermediateInference.py`

Inference Contents

Thank you
for your attention