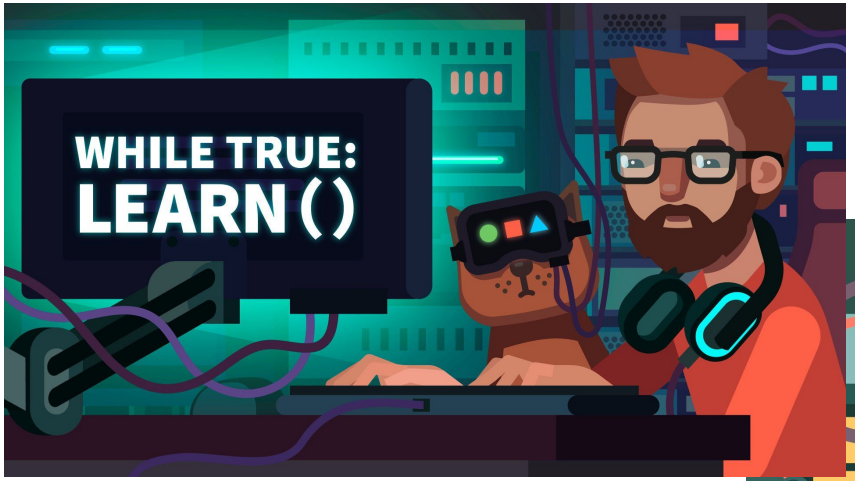
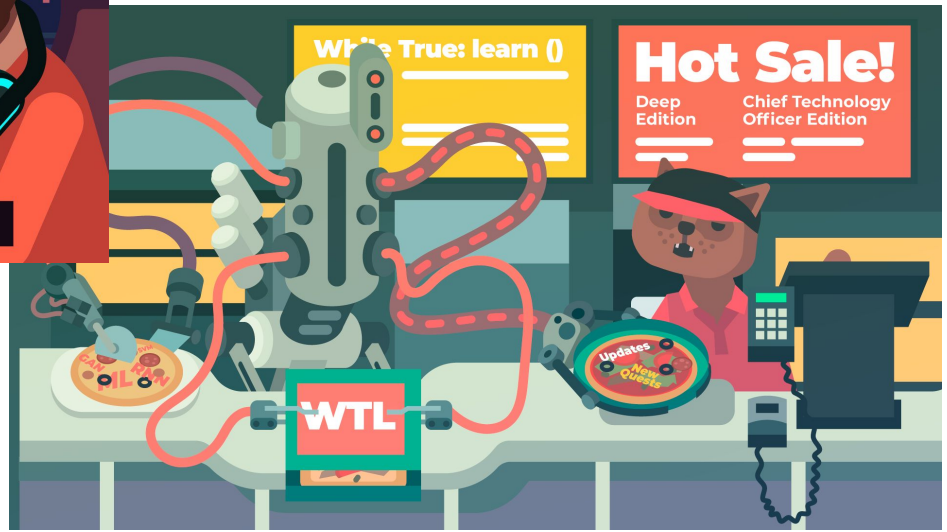
# Pizza Face Detection

60121045-3 Thanapat Chanprasert
60121063-6 Panupong Suksuwan

# Origin and problem





# Tools

## YoloV5

Object Detection
Algorithms

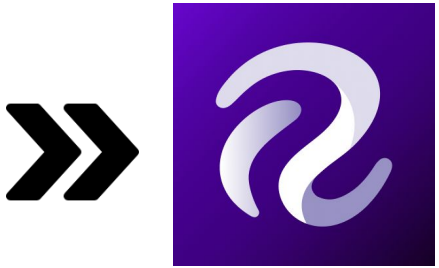
## Google Colab

Free GPU
Training Model

## VSCode

Run Detection with
Video and Real Time

# Various development processes



Automate Get data with Selenium

Labeling with Roboflow

Training

Use Weight and Detection

Real Time or In Video

# Result

Demo Video , Image

# Training

## 3 Classes

Hawaiian , Pepperoni and Double Cheese

## 300 Image Dataset

100 image each Classes

## No Augmentation

Experiment without Augmentation Dataset

## 1000 Epoch Training

Experiment with 500 , 650 and 1,00 Epoch

# Version 500 Epoch

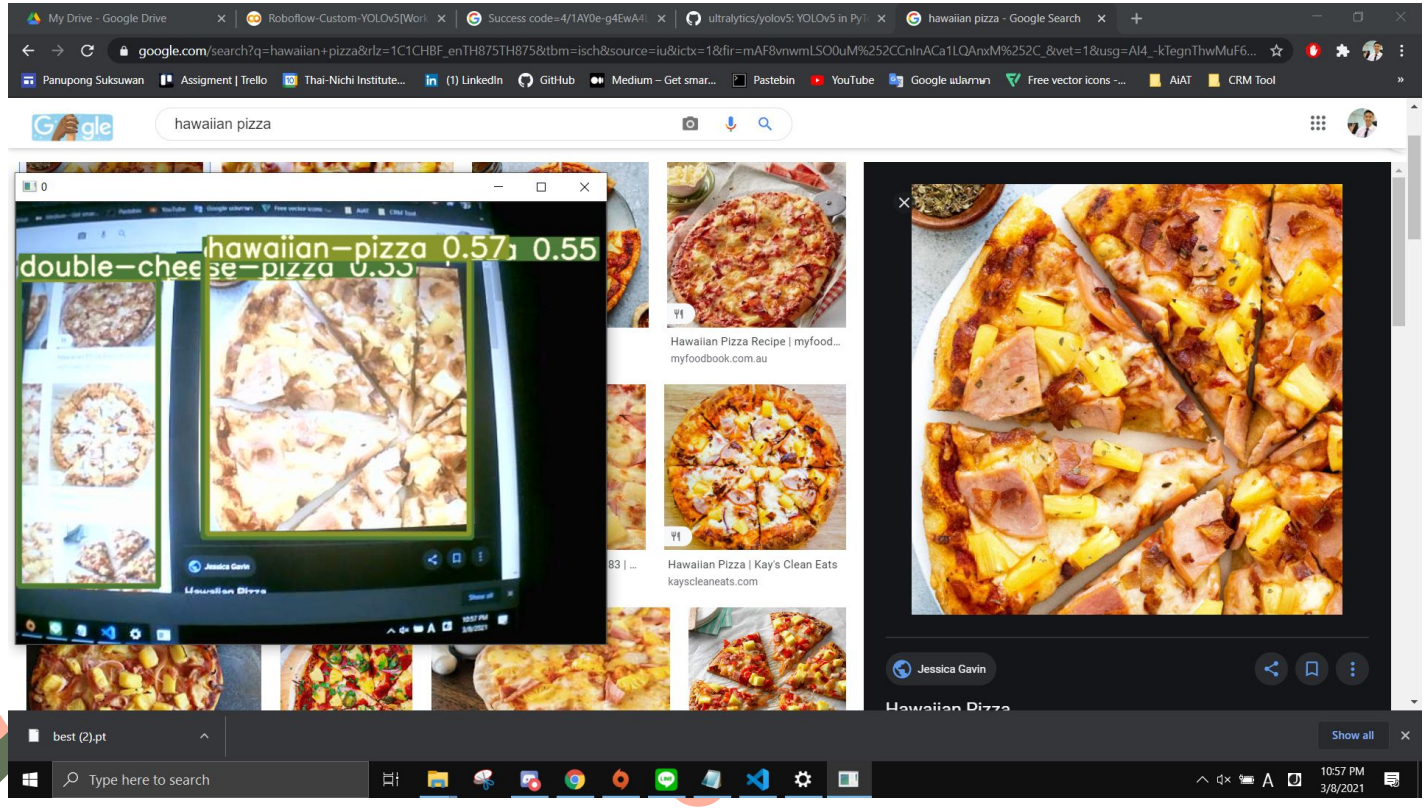
# Version 650 Epoch

# Version 1000 Epoch

# Pepperoni Test

# Double Cheese

# Realtime


My Drive - Google Drive
Roboflow-Custom-YOLOv5[Work
Success code=4/1AY0e-g4EwA4
ultralytics/yolov5: YOLOv5 in PyT
hawaiian pizza - Google Search
google.com/search?q=hawaiian+pizza&rlz=1C1CHBF_enTH875TH875&tbm=isch&source=iu&ictx=1&fir=mAF8vnwmLSO0uM%252CCnInACa1LQAnxM%252C_&vet=1&usg=AI4_-kTegnThwMuF6...
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Assigment | Trello
Thai-Nichi Institute...
(1) LinkedIn
GitHub
Medium – Get smar...
Pastebin
YouTube
Google แปลภาษา
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CRM Tool
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myfoodbook.com.au
Hawaiian Pizza | Kay's Clean Eats
kayscleaneats.com
Jessica Gavin
Hawaiian Pizza
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3/8/2021

# Performance

**91%**

Mean Average Precision

**90%**

Precision

**90%**

Recall

Train with 1,000 Epoch and Yolov5s

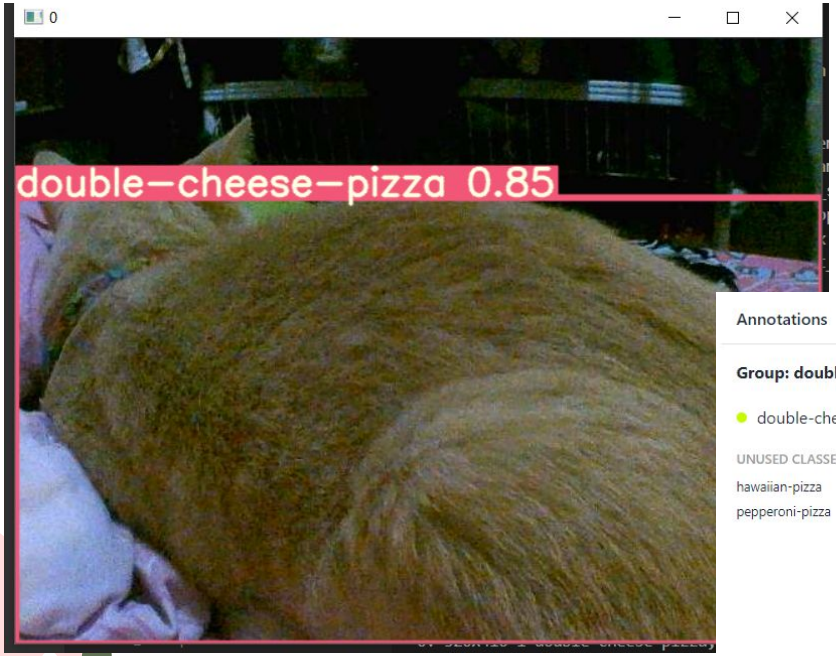
# obstacles

Detect Wrong

Environment Complexity

Garbage in Garbage out

# Obstacles Example




Annotations

**Group: double-cheese-pizza**

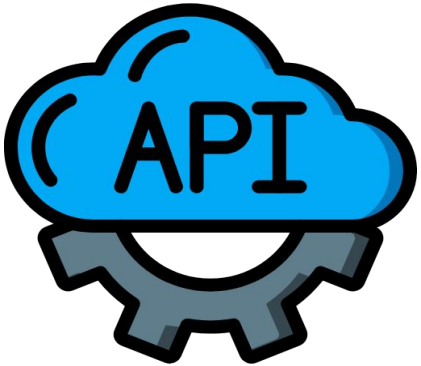
double-cheese-pizza 1

UNUSED CLASSES

hawaiian-pizza

pepperoni-pizza

# Continuity approach and Challenge




Deploy with Cloud API

More Classes

More Correctness

# THANKS!

## DO YOU HAVE ANY QUESTIONS?