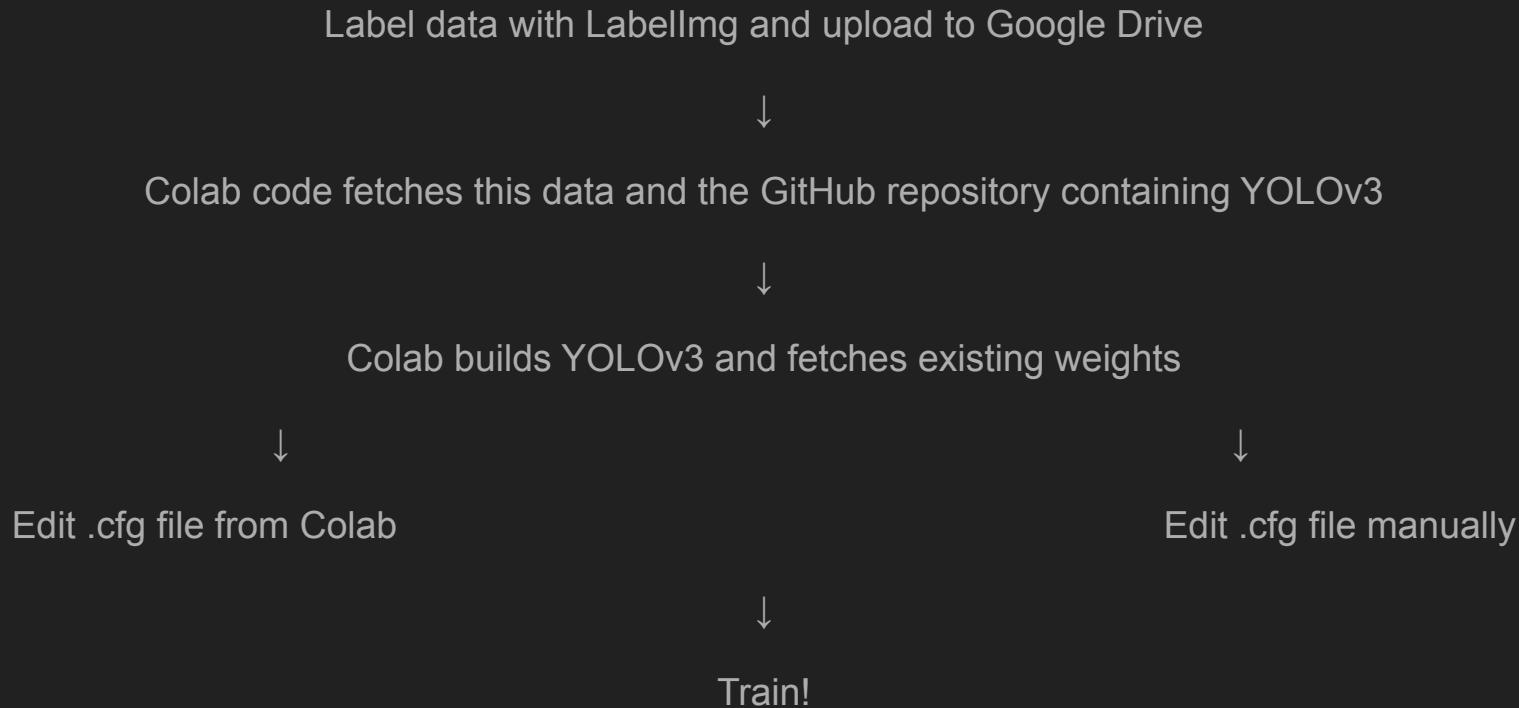


YOLOv3

Satvick and Tanmay

The approaches



master ▾

5 branches

25 tags

Go to file

Add file ▾

Code ▾



PTA00 [tested]Fixed open file dialog cancel error. (#856) ...

0bc7a46 3 days ago

🕒 426 commits



.github

Update no-response.yml

9 months ago



build-tools

Fix typo

3 years ago



data

Modified the default label text box into a drop down (#824)

2 months ago



demo

Screenshot of macOS High Sierra usage added.

4 years ago



libs

Change locale.getlocale() to locale.getdefaultlocale()

5 days ago



readme

update instruction to install with pipenv

5 months ago



requirements

Bump lxml from 4.6.3 to 4.6.5 in /requirements (#830)

3 months ago



resources

update translations for zh-CN

👁



tests

Update unit test to fix error and fix icon issue

About

🔪 Labellmg is a graphical image annotation tool and label object bounding boxes in images

youtu.be/p0nr2yscy_u

recognition

tools

deep-learning

detection

annotations

python3

imagenet

image-classification

python2

📖 Readme

📜 MIT License

☆ 16.8k stars

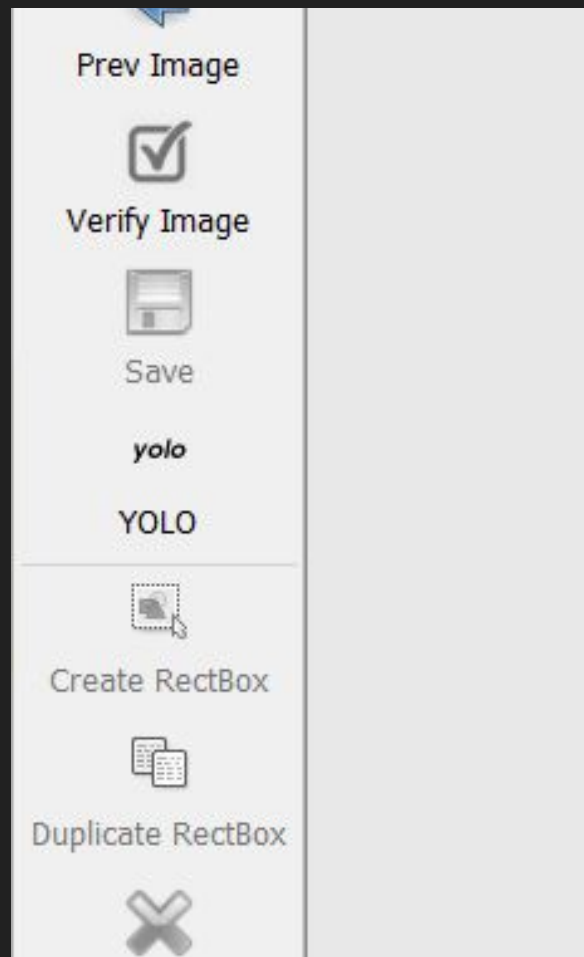
👁 360 ...

Data labelling



Data labelling

Data labelling





New



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Computers



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Storage

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3.txt



me

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4.jpg



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4.txt



me

Jan 29, 2022 me



5.jpg



me

Jan 29, 2022 me



5.txt



me

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6.jpg



me

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Data labelling

The code

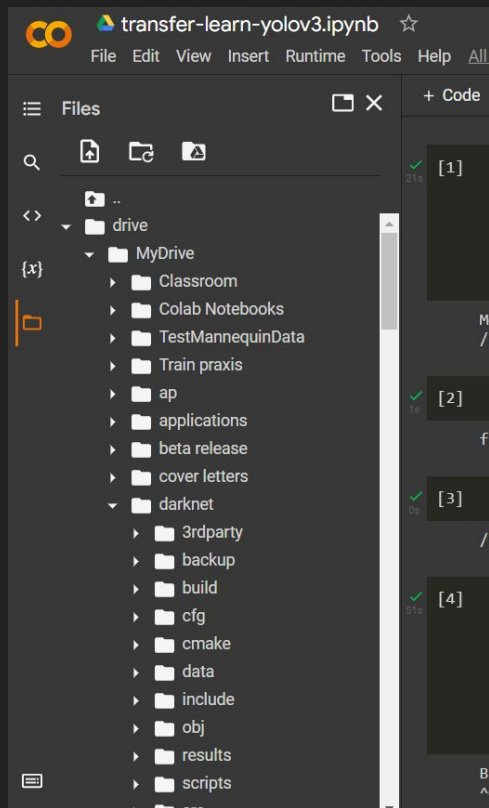
```
1 import cv2
2 import matplotlib.pyplot as plt
3 %matplotlib inline
4 from google.colab import drive
5 drive.mount('/content/drive')
6 %cd /content/drive/My\ Drive
```

```
!git clone https://github.com/AlexeyAB/darknet.git
```

```
1 !wget "https://pjreddie.com/media/files/darknet53.conv.74"
```

```
1 !sed -i 's/OPENCV=0/OPENCV=1/' Makefile
2 !sed -i 's/GPU=0/GPU=1/' Makefile
3 !sed -i 's/CUDNN=0/CUDNN=1/' Makefile
4
5 print("Building. . . It might take 2-3 minutes")
6
7 !make &> build_log.txt
```

Editing the config file



```
1 # Change lines in yolov3.cfg file
2 !sed -i 's/batch=1/batch=64/' cfg/yolov3_training.cfg
3 !sed -i 's/subdivisions=1/subdivisions=16/' cfg/yolov3_training.cfg
4 !sed -i 's/max_batches = 500200/max_batches = 2000/' cfg/yolov3_training.cfg
5 !sed -i '610 s@classes=80@classes=1@' cfg/yolov3_training.cfg
6 !sed -i '696 s@classes=80@classes=1@' cfg/yolov3_training.cfg
7 !sed -i '783 s@classes=80@classes=1@' cfg/yolov3_training.cfg
8 !sed -i '603 s@filters=255@filters=18@' cfg/yolov3_training.cfg
9 !sed -i '689 s@filters=255@filters=18@' cfg/yolov3_training.cfg
10 !sed -i '776 s@filters=255@filters=18@' cfg/yolov3_training.cfg
```

My Drive > darknet		
Name	Owner	Last modified
.circleci	me	Jan 29, 2022 me
.git	me	Jan 29, 2022 me
.github	me	Jan 29, 2022 me
3rdparty	me	Jan 29, 2022 me
backup	me	Jan 29, 2022 me
build	me	Jan 29, 2022 me
cfg	me	Jan 29, 2022 me
cmake	me	Jan 29, 2022 me
data	me	Jan 29, 2022 me
include	me	Jan 29, 2022 me
obj	me	Jan 29, 2022 me

Training!



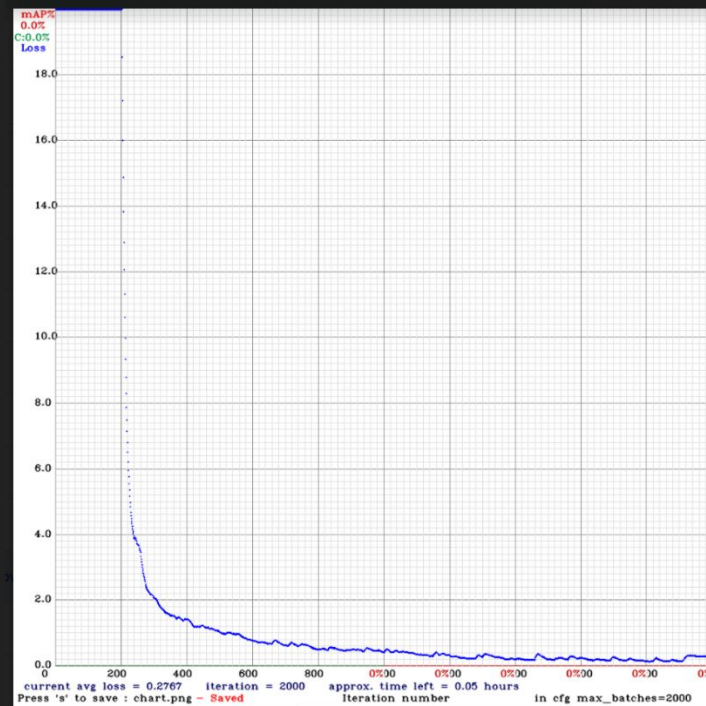
```
1 | ./darknet detector train data/mannequin.data cfg/mannequin-yolov3.cfg backup/mannequin.weights -dont_show -i 0 -map
```



Streaming output truncated to the last 5000 lines.








```
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.882222), count: 4, class_loss = 0.029965, iou_loss = 0.039285, total_loss = 0.069250
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.698238), count: 1, class_loss = 0.058806, iou_loss = 0.037975, total_loss = 0.096781
total_bbox = 137092, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.865038), count: 4, class_loss = 0.007067, iou_loss = 0.092932, total_loss = 0.099999
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.772105), count: 1, class_loss = 0.003791, iou_loss = 0.027093, total_loss = 0.030884
total_bbox = 137097, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.845279), count: 4, class_loss = 0.158490, iou_loss = 0.141817, total_loss = 0.300307
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.000000), count: 1, class_loss = 0.000002, iou_loss = 0.000000, total_loss = 0.000002
total_bbox = 137101, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.851233), count: 4, class_loss = 0.318688, iou_loss = 0.047513, total_loss = 0.366201
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.884151), count: 1, class_loss = 0.000366, iou_loss = 0.024628, total_loss = 0.024994
total_bbox = 137106, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.822259), count: 4, class_loss = 0.218120, iou_loss = 0.154594, total_loss = 0.372714
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.000000), count: 1, class_loss = 0.000001, iou_loss = 0.000000, total_loss = 0.000001
total_bbox = 137110, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.913357), count: 3, class_loss = 0.013633, iou_loss = 0.056007, total_loss = 0.069640
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.830693), count: 1, class_loss = 0.000078, iou_loss = 0.016115, total_loss = 0.016194
total_bbox = 137114, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.822880), count: 3, class_loss = 0.055851, iou_loss = 0.054491, total_loss = 0.110341
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.832725), count: 1, class_loss = 0.010332, iou_loss = 0.012221, total_loss = 0.022553
total_bbox = 137118, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.895673), count: 2, class_loss = 0.000087, iou_loss = 0.047051, total_loss = 0.047138
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.833687), count: 2, class_loss = 0.103334, iou_loss = 0.081124, total_loss = 0.184458
total_bbox = 137122, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.897421), count: 4, class_loss = 0.014300, iou_loss = 0.024970, total_loss = 0.039270
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.840489), count: 1, class_loss = 0.000207, iou_loss = 0.034479, total_loss = 0.034686
total_bbox = 137127, rewritten_bbox = 0.000000 %
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 16 Avg (IOU: 0.841156), count: 4, class_loss = 0.161225, iou_loss = 0.213085, total_loss = 0.374309
v3 (mse loss, Normalizer: (iou: 0.75, obj: 1.00, cls: 1.00) Region 23 Avg (IOU: 0.000000), count: 1, class_loss = 0.000004, iou_loss = 0.000000, total_loss = 0.000004
```

The payoff (kind of)



The weights file(s)

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Name ↑	Owner	Last modified	File size
 .ipynb_checkpoints	me	Jan 29, 2022 me	—
 mannequin-yolov3_1000.weights	me	Feb 22, 2022 me	33.1 MB
 mannequin-yolov3_2000.weights	me	Feb 22, 2022 me	33.1 MB
 mannequin-yolov3_best.weights	me	Feb 22, 2022 me	33.1 MB
 mannequin-yolov3_final.weights	me	Feb 22, 2022 me	33.1 MB
 mannequin-yolov3_last.weights	me	Feb 22, 2022 me	33.1 MB
 mannequin.weights	me	Jan 29, 2022 me	0 bytes



Testing :(