

Usage of the Annotation File

Dataset

Everyone must create a Folder on there Google Drive named “**Dataset**” hence the path to the folder must be as follows; **MyDrive/Dataset** and if the Google Drive has been mounted in colab the path must reflect **/content/gdrive/MyDrive/Dataset**.

Naming Convention of the images;

The names of the individuals used are those attached to their GitHub accounts.

Name	Range
Shawn Mels	Car1-Car100
MkBenjie	Car101-Car200
Semeon Fortune	Car201-Car300
Ace Priority	Car301-Car400

Running the Cells of Notebook

You are to run cells 1 and 2 without altering anything as these will mount your Drive in Collab and also add the necessary imports into your environment.

Before running cell 3, on line 2, that's spec_img has to correspond to the image you are going to annotate, therefore change it according to the name convention assigned to you.

```
In [3]: folder_dir = '/content/gdrive/MyDrive/Dataset'
spec_img = folder_dir + '/Car2.png'
image = mpimg.imread(spec_img)

img_width = image.shape[1]
img_height = image.shape[0]
print(f"Image Width: {img_width} pixels")
print(f"Image Height: {img_height} pixels")
plt.imshow(image)
plt.show()
```

```
Image Width: 590 pixels
Image Height: 350 pixels
```

Use the image displayed by cell 3 to determine the dimensions of the bounding box to use and the change the values in the class BoundingBox()

```
#we display only 1 box for now
gt_boxes = [
    BoundingBox(x_min=220, y_min=170, x_max=360, y_max=204),
]
make_image_figure_with_bboxes(np_image, gt_boxes)
```

Please use a meaningful bounding box, mind while creating one.



Before running cell 5, make sure that you are satisfied with the bounding box created by cell 4. Change the **filename** to match **spec_img** and lastly change the name in the xml writing function to match the **filename**

```
# Write the formatted XML to a file
"""please mind the filename"""
with open(folder_dir + '/Car2.xml', "w") as xml_file:
    xml_file.write(formatted_xml)
print("XML file 'annotation.xml' has been created.")

filename = 'Car2.png'
width = img_width
height = img_height
class_name = "license"
for bbox in gt_boxes:
    xmin = bbox.x_min
    ymin = bbox.y_min
    xmax = bbox.x_max
    ymax = bbox.y_max

create_annotation_xml(filename, width, height, class_name, xmin, ymin, xmax, ymax)
```

XML file 'annotation.xml' has been created.