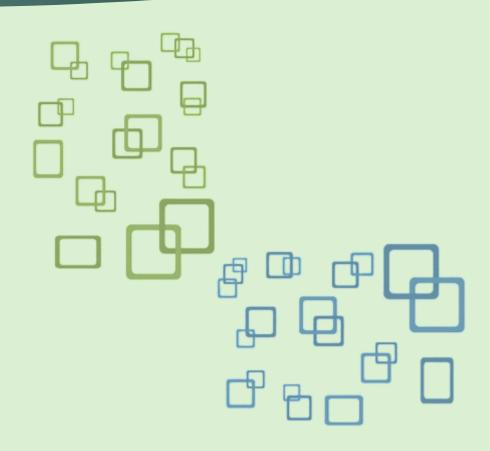
# Labelling

WAY OF HIGHLIGHTING OBJECTS IN PYTHON



### Key Points of Discussion

- What is Labelling
- Why Labelling
- Importance of labelling
- Labelling Tools
- \* Challenges
- Applications



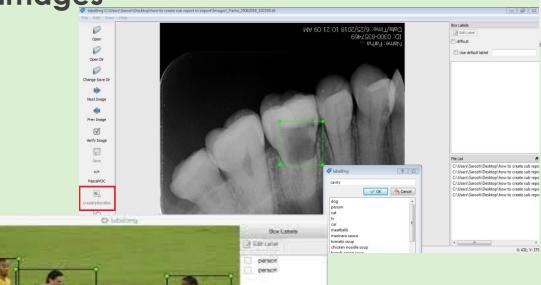
### What is Labelling

Process of Highlighting images

Open Dir

Supervised learning

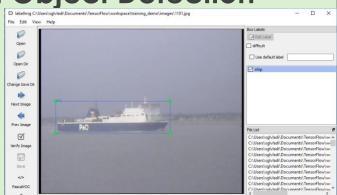
Marking various details



Users/Tynning/adelimg/der

### Why Labelling

- Custom Datasets
- Details highlighted effectively
- Train model on Labelled Co-ordinates
- Detailed Object Detection





```
annotation>
    <folder>collectedImages</folder>
    <filename>hello.264527be-b93b-11ec-9
    <path>D:\RealTimeObjectDetection-max
    <source>
       <database>Unknown</database>
   </source>
    <size>
       <width>640</width>
       <height>480</height>
        <depth>3</depth>
    </size>
    <segmented>0</segmented>
    <object>
        <name>hello</name>
        <pose>Unspecified</pose>
        <truncated>0</truncated>
       <difficult>0</difficult>
       <br/>bndbox>
            <xmin>349
            <ymin>136
            <xmax>568</xmax>
            <ymax>400</ymax>
        </bndbox>
   </object>
</annotation>
```

# Importance of Labelling

- Detailed object detection in harder without Labelling
- Hard to train models as according to requirements
- Image classification is difficult task for custom data
- Can create custom model without tons of dataset

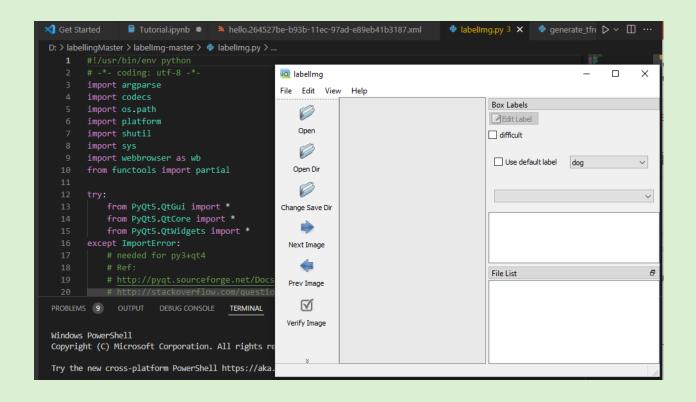


#### Board or ?



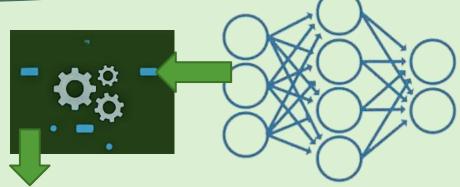
# Labelling Tools

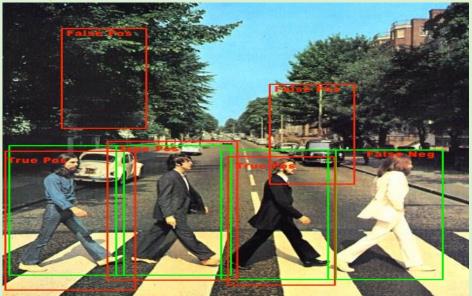
- \* labelme
- labellmg
- CVAT
- hasty.ai
- Labelbox



## Challenges

- Time Taking Approach
- Dataset Image Resolution should be better
- Should need to categorize object for multiple outputs
- Misguiding model will lead to disaster output





# Applications

- Safe City Projects
- Self-Driving Vehicle
- Security Programs
- Medical Industry
- Driver Assist in Vehicles...etc.





