Why Yolo?

The purpose of this competition is 'object detection'. Generally, object detection algorithms with deep learning take a long time to train model and require a lot of ## gpu resources. Most individual participants use one or two gpu (... or zero). Therefore, there is a need for algorithms that works quickly with less gpu resources.

Note: BEFORE RUNNING THIS NOTEBOOK, CHANGE THE NOTEBOOK SETTINGS TO "GPU" BY DEFAULT ITS CPU

Installing and Loading libraries. Following is a brief description of some important libraries used in this code

1. pydicom is a pure python package for working with DICOM files

2. tqdm is used to a Instantly make loops show a smart progress meter

3. A library for image augmentation in machine learning experiments, particularly convolutional neural networks

```
!pip3 install -q pydicom
!pip3 install -q tqdm
```

```
import math
import os
import shutil
import sys

import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import glob
import pydicom
import cv2
from sklearn.model_selection import train_test_split
```

```
##Set the environment variables

os.environ['KAGGLE_USERNAME']="chaitanya21796"
```

A mapping object representing the string