

# MAPPING CLASSES TO LABELS IN YOLO

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**INTRODUCTION TO YOLOV7**

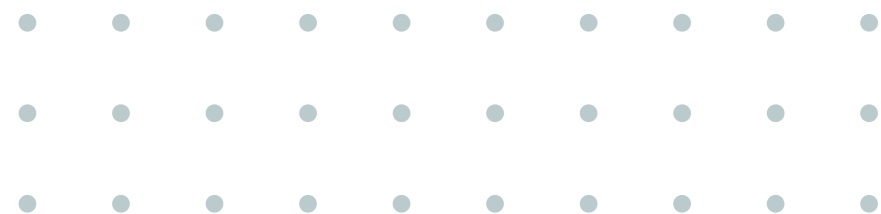
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# INTRODUCTION

- YOLOv7, short for "You Only Look Once version 7," is a state-of-the-art object detection algorithm.
- It is an evolution of the YOLO (You Only Look Once) series, aiming to improve performance and efficiency in real-time object detection tasks.



# MAPPING CLASSES INTO LABELS

- Each class is assigned a numerical label corresponding to its position in the list, starting from 0.
- For example, "Unintended Eccentricities" is assigned the label 0, "Loss of Material" is assigned the label 1, and so on, up to "Reinforcement Spotted" assigned the label 30.

## Mapping Classes to Labels

- **Unintended Eccentricities** – Class label: 0
- **Loss of Material** – Class label: 1
- **Displacement of stones** – Class label: 2
- **Reinforcement Exposed** – Class label: 3
- **Cracks** – Class label: 4
- **Sourcing and Deteriorated Stones** – Class label: 5
- **Loss of Material with reinforcement exposed** – Class label: 6
- **Cavities** – Class label: 7
- **Concrete degradation and exposed reinforcement** – Class label: 8
- **Mild cavities** – Class label: 9
- **Concrete degradation** – Class label: 10
- **Honey Combing** – Class label: 11
- **Deteriorated Stones/bricks** – Class label: 12
- **Deteriorated joint** – Class label: 13
- **Loss of pointing Mortar** – Class label: 14
- **Presence of debris/Rocks/Tree-Trunks** – Class label: 15
- **Minor cavity** – Class label: 16
- **Loss of pointing mortar and deposits of debris** – Class label: 17
- **Distressed Joints** – Class label: 18
- **Unintended Eccentricities P1 Highlight** – Class label: 19
- **Material Deterioration/ Delamination** – Class label: 20
- **Material disintegration** – Class label: 21
- **Spalling of gunniting** – Class label: 23
- **Deposits of debris/Rocks/Tree-Trunks** – Class label: 24
- **Abrasion** – Class label: 25
- **Pipe/debris noted** – Class label: 28
- **Material Loss/Disintegration** – Class label: 29
- **Reinforcement Spotted** – Class label: 30

- By associating specific classes with numerical labels, we enable the model to identify and classify various features within images accurately.

# CONCLUSION



**THANK YOU**