

You'll investigate the accuracy of the YOLOv4 pre-trained network in this quiz. You'll use a single frame from the MathWorksRt9 video included in with the course files. Open MATLAB and start a new script with the following code:

```
yolo = yolov4ObjectDetector("csp-darknet53-coco");  
  
yoloTiny = yolov4ObjectDetector("tiny-yolov4-coco");  
  
img = imread("Rt9Frame1.png");
```

Then answer the questions in this quiz.

1.

Apply the **yoloTiny** detector to the Rt9Frame1.png image with the default settings. How many objects are detected?

1 / 1 point

- ☐ 2
- ☒ 3
- ☐ 4
- ☐ 5

☒ **Correct**

Yes, three objects are detected.

2.

Look at the labels for the detections from question one. What objects are detected? **Select all that apply.**

1 / 1 point

- ☐ Backpack
- ☐ Truck
- ☒ Train

☒ **Correct**

There is a false detection of a Train with the tiny YOLO detector.

- ☒ Car

☒ **Correct**

The detector is correctly identifying some of the cars in the image.

3.

Apply the full YOLO detector (using csp-darknet53-coco) to the image using the default "Threshold" of 0.5. How many "Car" detections are there?

1 / 1 point

- ☐ 2
- ☐ 3
- ☒ 4
- ☐ 5

☒ **Correct**

The full detector correctly finds all four cars in the image.

4.

Use the tiny YOLO detector, but decrease the detection threshold to 0.25. How many objects are detected?

1 / 1 point

- ☐ 2
- ☐ 3
- ☒ 4
- ☐ 5

☒ **Correct**

The detector successfully finds the black car traveling to the right with the lower detection Threshold.