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## Lesson Quiz

Answer the following questions to test your knowledge of the concepts and techniques taught in this lesson.

### Question 1

1/1 point (graded)

Which of the following best describes the goal of object detection

- ☐ To classify the type of an image
- ☐ To perform dense labelling of all the pixels in an image
- ☒ To identify the class and position of objects in an image ✓
- ☐ To recognize basic features in an image related to visual cues

### Explanation

Object detection is about identifying the class and position of objects within an image.

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You have used 1 of 1 attempt

**i** Answers are displayed within the problem

### Question 2

1/1 point (graded)

Which of the following best describes Instance Segmentation?

- ☐ Instance segmentation is another name for semantic segmentation
- ☒ Instance segmentation labels individual pixels in an image according to the instance of their class. ✓
- ☐ Instance segmentation is concerned with low-level image processing techniques for segmentation (region growing, watershed, superpixels)
- ☐ Instance segmentation labels individual pixels in an image according to their class

### Explanation

Image segmentation, or semantic segmentation, is concerned with labelling individual pixels in an image according to their class. Instance segmentation is concerned with labelling individual pixels in an image according to the particular instance of their class, i.e. separating out the individual objects.

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### Question 3

1/1 point (graded)

Which of the following are ideal candidates for image features? (Choose all that apply)

- ☒ Invariance to Location or Scale ✓
- ☒ Invariance to Rotation ✓
- ☒ Invariance to changes in illumination ✓

☐ Relatively scarce to find in the image☐ Specific to a particular situation[Submit](#)

You have used 1 of 1 attempt

**i** Answers are displayed within the problem

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