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### Assignment Lesson 11: Image Segmentation I

#### **Question**

- 1) In your opinion, if we have a black and white image, where are edges of that image?
- 2) If we have a color image, are edges the same as black and white image? Why?

#### **Answers**

- 1). I think if we have a black and white image, edge normally happens defined as the boundaries where there is a significant change for intensity or brightness between adjacent pixels of image. These changes can represent transitions from one object to another object variations in texture, or different regions within the image.
- 2). In color image, edges not necessary the same as in black and white images because color edges can involve variation multiple dimensions color channel for example: RGB represent for Red, Green and Blue in color space). Then, edges detection in color images frequently happens independently in each channel. It also complex than black and white images due to the additional dimension of color.