

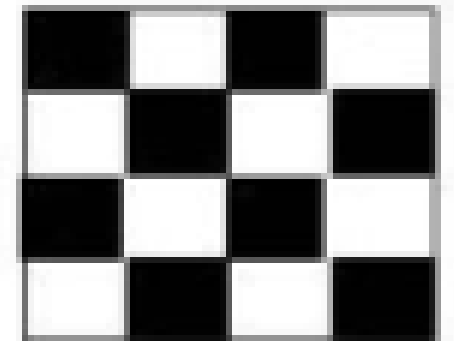
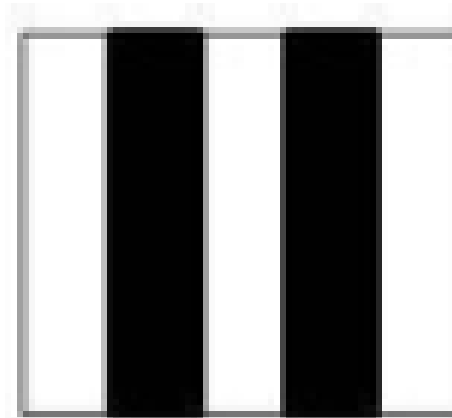
# CS 111 Quiz #4: Instructions

- 10 questions
- Each question displayed for **one minute only**
- Record your responses for each question using your clickers/Reef app
- Record your responses when polling starts for that question
- If you miss a question, you will not receive any credit for it

# Question #1

Consider the two images on the right. Their histograms are:

- A. Identical**
- B. Similar
- C. Different



## Question #2

Global histogram stretching can create which of these artifacts?

- A. Blotchiness
- B. Burn and Dodges**
- C. White Imbalance
- D. All of the above

## Question #3

Consider two spectra that yield the same tristimulus values. Which of the following is true:

- A. The two spectra are identical
- B. The two spectra create the same sensation in the human eye.
- C. There can be other spectra with the same tristimulus values.
- D. Both B and C.**

## Question #4

Consider colors on a ray originating at the origin of the XYZ space. Which of the following is true?

- A. These colors have the same intensity.
- B. These colors have the same hue.
- C. These colors have the same saturation.
- D. Both B and C.**

## Question #5

With 3 bits per pixel, we can accommodate 8 gray levels. If we use 8 bits per pixel, what is the number of gray levels?

- A. 32 gray levels.
- B. 64 gray levels.
- C. 128 gray levels.
- D. 256 gray levels.**

## Question #6

The hue of a color is denoted by its:

- A. Dominant wavelength**
- B. Complementary wavelength
- C. Both A and B
- D. Luminance
- E. Intensity
- F. Both D and E

## Question #7

The weighted mean of the spectra of a color denotes its:

- A. Intensity
- B. Hue**
- C. Saturation



## Question #8

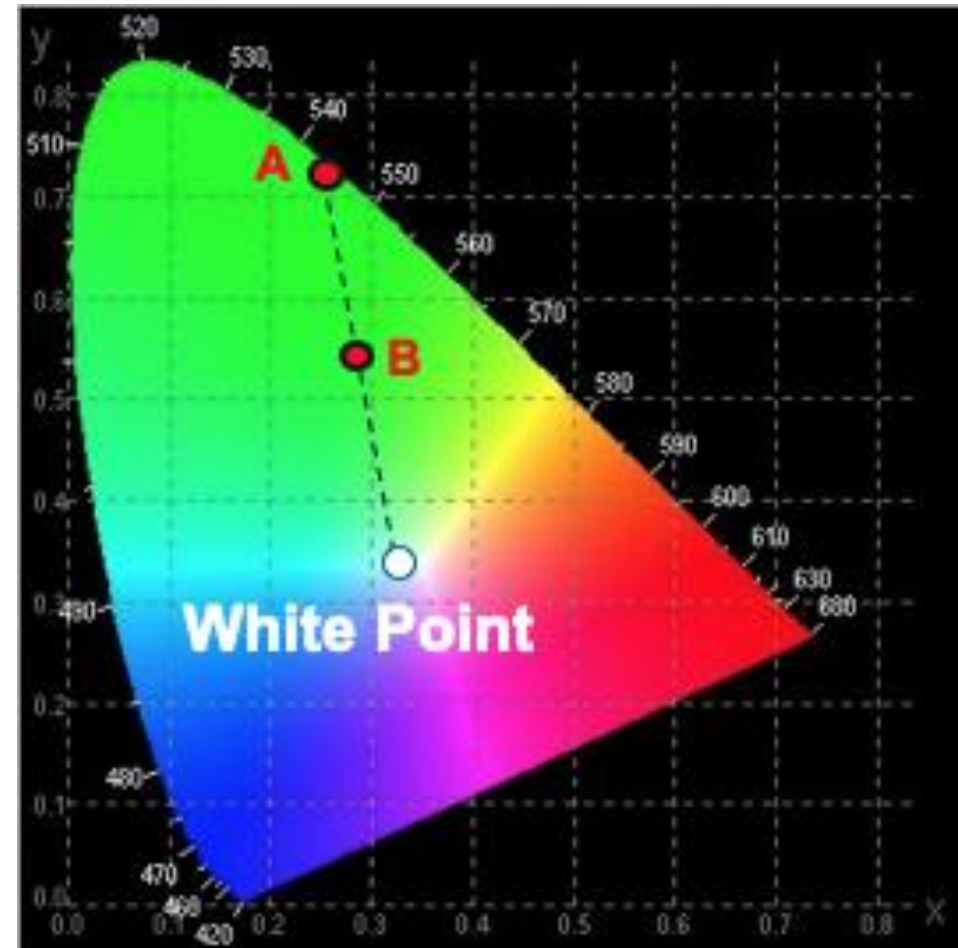
The standard deviation from the weighted mean of the spectra of a color denotes its:

- A. Intensity
- B. Hue
- C. Saturation**

# Question #9

Which of the following statements is true?

- A. A and B have same hue.
- B. A and B have same saturation.
- C. A has higher saturation than B
- D. B has higher saturation than A.
- E. Both A and C.**



# Question #10

Consider blue and green light of same intensity. Which one has greater luminance?

A. Blue

**B. Green**

C. Both have same luminance