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A1 Questions

**1. How many bits does it take to represent the values from 0 to 255?**

8 bits are needs to represents the values of 0 to 255, because in binary 255 is 11111111.

**2. How many bytes does it take to represent a color in the RGB color model?**

Three byte are needed to represent a color. This is because each individual color takes 1 byte, and there are three colors.

**3. How many pixels are in a picture that is 640 pixels wide and 480 pixels high?**

There are 307200 pixels in a picture that is 640x480.

A2 Questions

**1. How can you make pink?**

(255,0,255)

**2. How can you make yellow?**

(255, 255,0)

**3. How can you make purple?**

(168, 0, 153)

**4. How can you make white?**

(255,255,255)

**5. How can you make dark gray?**

(102,102,102)

A3 Questions

**1. What is the row index for the top left corner of the picture?**

The row index is 0.

**2. What is the column index for the top left corner of the picture?**

The column index is 0.

**3. The width of this picture is 640. What is the rightmost column index?**

The rightmost column index is 640.

**4. The height of this picture is 480. What is the bottom most row index?**

The bottom most row index is 480

**5. Does the row index increase from left to right or top to bottom?**

The row index increases from top to bottom

**6. Does the column index increase from left to right or top to bottom?**

The column index increases from left to right.

**7. Set the zoom to 500%. Can you see squares of color? This is called pixelation. Pixelation means displaying a picture so magnified that the individual pixels look like small squares.**

I can see squares of color.