Jiin Kim

Period 2

1/16/20

Picture Lab Questions

A1. Introduction to digital pictures and color

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

**8 bits**

1. How many bytes does it take to represent a color in the RBG color model?

**3 bytes**

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

**307200 pixels**

A2. Picking a color

1. How can you make pink?

**java.awt.Color[r=255, g=153, b=255]**

1. How can you make yellow?

**java.awt.Color[r=255, g=255, b=0]**

1. How can you make purple?

**java.awt.Color[r=153, g=0, b=255]**

1. How can you make white?

**java.awt.Color[r=255,g=255,b=255]**

A3. Exploring a picture

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

**Row = 0**

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

**Column = 0**

1. The width of this picture is 640. What is the right most column index?

**Column = 639**

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

**Row = 479**

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

**Top to bottom**

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

**Left to right**

1. 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.

**Yes I can see the squares of color**