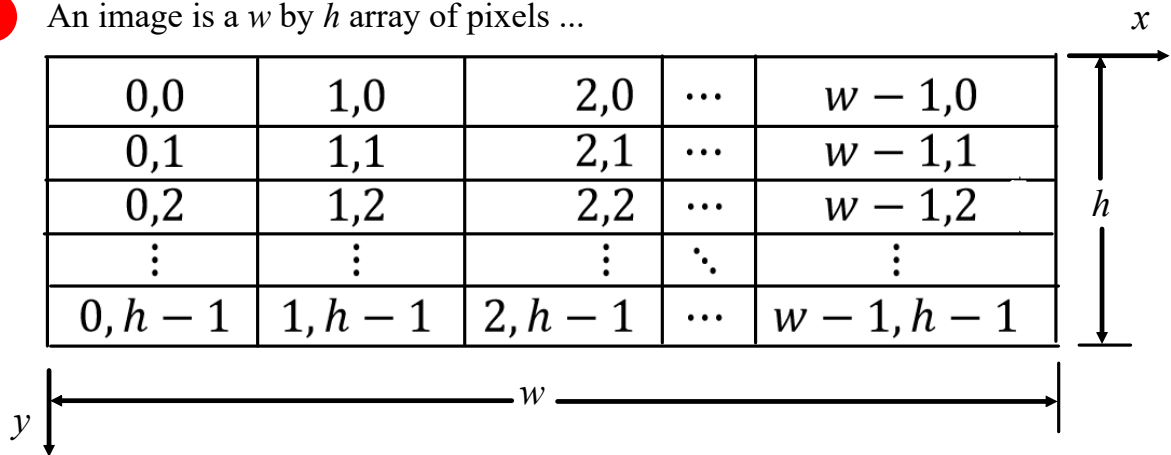


Images

```
import java.awt.image.BufferedImage;
...
BufferedImage bi=new BufferedImage(w,h,BufferedImage.TYPE_INT_RGB);
```

An image is a w by h array of pixels ...



Light Addition of Colors

The primary colors are red, green and blue.

The color of each pixel is specified by a hexadecimal integer $0xrrggbb$. Each intensity, *i.e.*, rr , gg and bb , ranges from

$0x00 = 0$ to $0xff = 255$. So, there are
 $256^3 = 16,777,216$ different colors.

↑
red

↑
green

↑
blue

red = 0xff0000	red + green = yellow	= 0xffff00
green = 0x00ff00	green + blue = cyan	= 0x00ffff
blue = 0x0000ff	blue + red = magenta	= 0xff00ff

white = red + green + blue = 0xffffffff (*all colors*)
 black = 0x000000 (*no color*)

Pigment Addition of Colors

The primary colors are cyan, magenta and yellow. For example, an ink-jet printer has three ink cartridges, *i.e.*, cyan, magenta and yellow.

cyan + magenta = blue
magenta + yellow = red
yellow + cyan = green

black = cyan + magenta + yellow (*all pigments*)
white = *no pigment*