

## CS116 – Activity 2A

You read about how pictures are made up of a matrix (or grid) of pixels. Each pixel has a color value which is made up of component values of red, green, and blue. You can explore this by typing the commands. Be sure to select a couple of different pixels in the **explore** window to see the red, green, and blue values of the pixel.

```
>>> p = makePicture(pickAFile())
>>> show(p)
>>> explore(p)
```

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Take a look at the following function which prints the red component value for all the pixels in a picture. Who know why anyone would actually want to do that!!

```
def printRed(picture):
    for pixel in getPixels(picture):
        print getRed(pixel)
```

If you try this out with a picture you will probably want to use the Stop button so you don't have to watch a gazillion numbers print in the command window.

Write a new version for this function that does exactly the same thing but uses indices to access the pixels.