Untitled4

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```python
In [19]: import PIL
         from PIL import Image, ImageDraw, ImageEnhance, ImageFont
         from IPython.display import display

         # import image and convert into RGB
         file="readonly/msi_recruitment.gif"
         image=Image.open(file).convert('RGB')

         range_counter=0
         images=[]

         # Create new images and Pixel Map
         for i in range(9):
             width, height = image.size
             new = image.copy()
             pixels = new.load()
             for i in range(width):
                 for j in range(height):
           # Get Pixel
                     pixel = image.getpixel((i,j))
           # Get R, G, B values (This are int from 0 to 255)
                     red =   pixel[0]
                     green = pixel[1]
                     blue =  pixel[2]
           # Set Pixel in new image every range_counter
                     # red channel changes
                     if range_counter==0:
                         red=red*0.1
                     elif range_counter==1:
                         red=red*0.5
                     elif range_counter==2:
                         red=red*0.9
                     # green channel changes
                     elif range_counter==3:
                         green=green*0.1
                     elif range_counter==4:
                         green=green*0.5
                     elif range_counter==5:
```

```python
                green=green*0.9
            # blue channel changes
            elif range_counter==6:
                blue=blue*0.1
            elif range_counter==7:
                blue=blue*0.5
            elif range_counter==8:
                blue=blue*0.9

            pixels[i, j] = (int(red), int(green), int(blue))

    images.append(new)
    range_counter+=1


# create a contact sheet from different RGB channel
first_image=images[0]
contact_sheet=PIL.Image.new(first_image.mode, (first_image.width*3,first_image.height
x=0
y=0


for img in images:
    # Lets paste the current image into the contact sheet
    contact_sheet.paste(img, (x, y) )
    # Now we update our X position. If it is going to be the width of the image, then
    # and update Y as well to point to the next "line" of the contact sheet.
    if x+first_image.width == contact_sheet.width:
        x=0
        y=y+first_image.height
    else:
        x=x+first_image.width

# resize and display the contact sheet
contact_sheet = contact_sheet.resize((int(contact_sheet.width/2),int(contact_sheet.he
display(contact_sheet)
```

In [ ]: