Michael Andres

Completed   Originals


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#Michael Andres
#Project 2
#3/15/23

def collage():
  copyPic(pic, 0, 0)
  grayscale(pic2)
  copyPic(pic2, 500, 0)
  invert(pic3)
  copyPic(pic3, 0, 333)
  redden(pic4)
  copyPic(pic4, 500, 333)
  greenify(pic5)
  copyPic(pic5, 250, 166)

def grayscale(picture1):
  for p in getPixels(picture1):
    intensity = (getRed(p)+getGreen(p)+getBlue(p))/3
    setColor(p,makeColor(intensity,intensity,intensity))

  repaint(picture1)

def invert(picture2):
  for p in getPixels(picture2):
    red=getRed(p)
    green=getGreen(p)
    blue=getBlue(p)
    invColor=makeColor(255-red, 255-green, 255-blue)
    setColor(p,invColor)
  repaint(picture2)

def redden(picture3):
  for p in getPixels(picture3):
    bValue = getBlue(p)
    setBlue(p, bValue * 0.7)
    gValue = getGreen(p)
    setGreen(p, gValue * 0.7)
  repaint(picture3)

def greenify(picture4):
  for p in getPixels(picture4):
    bValue = getBlue(p)
    setBlue(p, bValue * 0.7)
    rValue = getRed(p)
    setRed(p, rValue * 0.7)
  repaint(picture4)
```

```python
def copyPic(source, startX, startY):
  targX = startX
  for x in range(0, getWidth(source)):
    targY = startY
    for y in range(0, getHeight(source)):
      color = getColor(getPixel(source,x,y))
      setColor(getPixel(canvas,targX,targY), color)

      targY = targY + 1

    targX = targX + 1

  repaint(canvas)

pic = makePicture(getMediaPath("jordan1.jpg"))
pic2 = makePicture(getMediaPath("jordan1.jpg"))
pic3 = makePicture(getMediaPath("jordan1.jpg"))
pic4 = makePicture(getMediaPath("jordan1.jpg"))
pic5 = makePicture(getMediaPath("jordan1.jpg"))
canvas = makeEmptyPicture(1000, 666, white)
```