Corinne Wenzel

Completed

Original





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# Corinne Wenzel, 3-15-21
def copy(pic,canvas,startX,endX,targetX):
  for sourceX in range(startX,endX) :
    targetY = 0
    for sourceY in range(0,getHeight(pic)):
      color = getColor(getPixel(pic, sourceX, sourceY))
      setColor(getPixel(canvas, targetX, targetY), color)
      targetY = targetY + 1
    targetX = targetX + 1
def grayScale(picture) :
  for p in getPixels(picture) :
    intensity = (getRed(p)+getGreen(p)+getBlue(p))/3
    setColor(p, makeColor(intensity, intensity, intensity))
def lighten(picture) :
  for x in range(0,getWidth(picture)) :
    for y in range(0,getHeight(picture)) :
      px = getPixel(picture, x, y)
      color = getColor(px)
      color = makeLighter(color)
      color = makeLighter(color)
      setColor(px,color)
def darken(picture) :
  for x in range(0, getWidth(picture)) :
    for y in range(0,getHeight(picture)) :
      px = getPixel(picture, x, y)
      color = getColor(px)
      color = makeDarker(color)
      color = makeDarker(color)
      setColor(px,color)
def collage():
  picture = makePicture(getMediaPath("butterfly2.jpg"))
  width = getWidth(picture)
  canvas = makeEmptyPicture(width*2,736)
  width2 = getWidth(canvas)
  copy(picture, canvas, 0, width, 0)
  grayScale (picture)
  copy(picture, canvas, 0, width, width2/2)
  darken (picture)
  copy(picture, canvas, 0, width/2, 0)
  lighten(picture)
```

lighten(picture)
copy(picture,canvas,0,width/2,width)
show(canvas)