Eric Segbor

Completed



Originals





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def collage():
picture = makePicture(getMediaPath("beach.jpg"))
 #picture2 = makePicture(getMediaPath("blueMotorcycle.jpg"))
signing = makePicture(getMediaPath("Esignature.jpg"))
 factor = 0.7
 canvas = makeEmptyPicture(1000,736)
# addText(canvas, 870, 670, "Eric Segbor")
picHold = makeEmptyPicture(int(getWidth(signing) * 0.20), int(getHeight(signing)*
0.20)
pictureH = scale2(signing, picHold, 0.20)
edgedetect(picture)
negative(picture)
mirrorVertical(picture)
mirrorHalf(picture)
 scale (picture, canvas, factor)
copy(picture,0,0,getWidth(picture),getHeight(picture),canvas,0,0)
 #copy(picture2,0,0,getWidth(picture2),getHeight(picture2),canvas,100,0)
 addSignature (canvas, pictureH, 836, 642, black)
 explore (canvas)
 show(canvas)
def addSignature(target, signing, toX, toY, color):
  toYStart = toY
  for x in range(0, getWidth(signing)):
    toY = toYStart
    for y in range(0, getHeight(signing)):
      p = getPixel(signing, x, y)
      if (getRed(p) < 225 and getGreen(p) < 225 and getBlue(p) < 225):
        setColor(getPixel(target, toX, toY), color)
      toY = toY + 1
    toX = toX + 1
  return target
def copy(source, srcX, srcY, srcXb, srcYb, canvas, canXb, canYb):
  targetX = 0
  for x in range (srcX, srcXb):
    targetY = 0
    for y in range (srcY, srcYb):
      px = getPixel(source, x, y)
      targetPx = getPixel(canvas, targetX, targetY)
      setColor(targetPx, getColor(px))
      targetY = targetY + 1
    targetX = targetX + 1
  targetX = 360
  for x in range (srcX, srcXb):
    targetY = 210
    for y in range (srcY, srcYb):
      px = getPixel(source, x, y)
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targetPx = getPixel(canvas, targetX, targetY)
      setRed(targetPx, getRed(px))
      targetY = targetY + 1
    targetX = targetX + 1
  targetX = 180
  for x in range (srcX, srcXb):
    targetY = 110
    for y in range (srcY, srcYb):
      px = getPixel(source, x, y)
      targetPx = getPixel(canvas, targetX, targetY)
      setGreen(targetPx,getGreen(px))
      targetY = targetY + 1
    targetX = targetX + 1
  targetX = 360
  for x in range (srcX, srcXb):
    targetY = 0
    for y in range (srcY, srcYb):
      px = getPixel(source, x, y)
      targetPx = getPixel(canvas, targetX, targetY)
      setBlue(targetPx, getBlue(px))
      targetY = targetY + 1
    targetX = targetX + 1
  targetX = 0
  for x in range (srcX, srcXb):
    targetY = 210
    for y in range (srcY, srcYb):
     px = getPixel(source, x, y)
     targetPx = getPixel(canvas, targetX, targetY)
      setBlue(targetPx, getBlue(px))
     targetY = targetY + 1
    targetX = targetX + 1
def scale(picture in, picture out, factor):
  in x = 0
  for out x in range(0, int(getWidth(picture in) * factor)):
     in y = 0
     for out y in range(0, int(getHeight(picture in) * factor)):
       color = getColor(getPixel(picture in, int(in x), int(in y)))
       setColor(getPixel(picture out, out x, out y), color)
       in y = in y + 1.0 / factor
     in x = in x + 1.0 / factor
def scale2(picture in, picture out, factor):
  in x = 0
  for out x in range(0, int(getWidth(picture in) * factor)):
     in y = 0
     for out y in range(0, int(getHeight(picture in) * factor)):
       color = getColor(getPixel(picture in, int(in x), int(in y)))
       setColor(getPixel(picture out, out x, out y), color)
       in y = in y + 1.0 / factor
     in x = in x + 1.0 / factor
  return picture out
def negative (picture):
  for px in getPixels(picture):
   red = getRed(px)
    green = getGreen(px)
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blue = qetBlue(px)
    negColor = makeColor(255-red, 255-green, 255-blue)
    setColor(px,negColor)
def mirrorVertical(picture):
 mirrorPoint = getWidth(picture)/2
 width = getWidth(picture)
  for y in range(0,getHeight(picture)):
    for x in range(0,mirrorPoint):
      leftPixel = getPixel(picture, x, y)
      rightPixel = getPixel(picture, width - x -1, y)
      color = getColor(leftPixel)
      setColor(rightPixel,color)
def mirrorHalf(picture):
 pixels = getPixels(picture)
  target = len(pixels) - 1
  for index in range (0, len(pixels)/2):
   pixel1 = pixels[index]
   color1 = getColor(pixel1)
   pixel2 = pixels[target]
    setColor(pixel2,color1)
    target = target - 1
def luminance(pixel):
 r = getRed(pixel)
 g = getGreen(pixel)
 b = getBlue(pixel)
 return (r+q+b)/3
def edgedetect(picture):
  for px in getPixels(picture):
   x = getX(px)
    y = getY(px)
    if y < getHeight(picture)-1 and x < getWidth(picture)-1:
      botrt = getPixel(picture, x+1, y+1)
      thislum = luminance(px)
      brlum = luminance(botrt)
      if abs(brlum-thislum) > 20:
       setColor(px,black)
      if abs(brlum-thislum) <= 20:
        setColor(px,white)
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