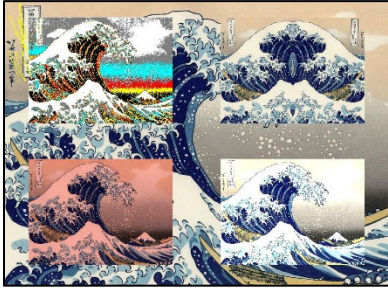


Tisiola Patterson

Completed

Original



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#Tisiola Patterson
#3/6/2022
def mirror(pic):
    mirrorPoint = getWidth(pic) / 2
    width = getWidth(pic)
    for y in range(0,getHeight(pic)):
        for x in range(0,mirrorPoint):
            leftPixel = getPixel(pic,x,y)
            rightPixel = getPixel(pic,width - x - 1,y)
            color = getColor(leftPixel)
            setColor(rightPixel,color)
def sunset(pic):
    for p in getPixels(pic):
        value=getBlue(p)
        setBlue(p,value*0.7)
        value=getGreen(p)
        setGreen(p,value*0.7)
def lighten(pic):
    for x in range(0,getWidth(pic)):
        for y in range(0,getHeight(pic)):
            px = getPixel(pic, x,y)
            color = getColor(px)
            color = makeLighter(color)
            setColor(px,color)
def scale(smollPic,bigPic,num):
    sourceX = 0
    for targetX in range(0,getWidth(bigPic)):
        sourceY = 0
        for targetY in range(0,getHeight(bigPic)):
            color = getColor(getPixel(smollPic,int(sourceX),int(sourceY)))
            setColor(getPixel(bigPic,targetX,targetY), color)
            sourceY = sourceY + 1.0/num
            sourceX = sourceX + 1.0/num
def copy(target, canvas, target_x, target_y):
    targetX = target_x
    for sourceX in range(0, getWidth(target)):
        targetY = target_y
        for sourceY in range(0,getHeight(target)):
            color = getColor(getPixel(target,sourceX,sourceY))
            setColor(getPixel(canvas,targetX,targetY), color)
            targetY = targetY + 1
            targetX = targetX + 1
def chromakey(source, bg):
    for p in getPixels(source):
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    x = getX(p)
    y = getY(p)
    if (getRed(p)<100 and getGreen(p)<100 and getBlue(p)<100):
        bgp = getPixel(bg,x,y)
        setColor(bgp, yellow)
def posterize(pic):
    for p in getPixels(pic):
        r = getRed(p)
        g = getGreen(p)
        b = getBlue(p)
        luminance = (r+b+g)/3
        if luminance < 50:
            setColor(p, black)
        elif luminance >=50 and luminance <=96:
            setColor(p, yellow)
        elif luminance >=97 and luminance <=135:
            setColor(p, red)
        elif luminance >=136 and luminance <=165:
            setColor(p, cyan)
        elif luminance >=166 and luminance <=200:
            setColor(p, gray)
        else:
            setColor(p, white)
def collage():
    canvas = makePicture(getMediaPath("kanagawa1.jpg"))
    pic = makePicture(getMediaPath("kanagawa1.jpg"))
    empty = makeEmptyPicture(int(getWidth(pic)*.375), (int(getHeight(pic)*.375)))
    sig = makePicture(getMediaPath("sig.jpg"))
    scale(pic,empty,3.0/8)
    posterize(empty)
    copy(empty,canvas,62,40)
    pic = makePicture(getMediaPath("kanagawa1.jpg"))
    scale(pic,empty,3.0/8)
    mirror(empty)
    copy(empty,canvas,562,40)
    pic = makePicture(getMediaPath("kanagawa1.jpg"))
    scale(pic,empty,3.0/8)
    sunset(empty)
    copy(empty,canvas,62,408)
    pic = makePicture(getMediaPath("kanagawa1.jpg"))
    scale(pic,empty,3.0/8)
    lighten(empty)
    copy(empty,canvas,562,408)
    empty = makeEmptyPicture(int(getWidth(sig)*.125), (int(getHeight(sig)*.125)))
    scale(sig,empty,1.0/8)
    chromakey(empty, canvas)
    explore(canvas)

```