

# Mordekai Bricker

Completed



Original



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#name: mordekai courtney bricker
#date: October 13th, 2023
ori = makePicture(getMediaPath("greekRuins.jpg"))

def collage():
    #main
    collage = makeEmptyPicture(1000, 730)
    originPic = duplicatePicture(ori)
    originPic2 = duplicatePicture(ori)
    originPic3 = duplicatePicture(ori)
    originPic4 = duplicatePicture(ori)
    originPic5 = duplicatePicture(ori)
    originPic6 = duplicatePicture(ori)

    #negative pic
    negPic = negative(originPic6)
    largeNegPic = scale(negPic, 2.03)
    copyInto(largeNegPic, collage, 0, 0)

    #greyscale pic
    greyPic = greyscale(originPic5)
    largeGreyPic = scale(greyPic, 1.755)
    #mirror Greyscale
    mirrorGrey = mirror(largeGreyPic)
    copyInto(mirrorGrey, collage, 0, 0)

    #color swapped pic
    colorSwapPic = colorSwap(originPic)
    largeColorSwap = scale(colorSwapPic, 1.5)
    copyInto(largeColorSwap, collage, 0, 90)

    #RGB monochrome photos part one
        #red
    redMono = monoRed(originPic2)
    smallRedMono = scale(redMono, .788)
    copyInto(smallRedMono, collage, 622, 0)
        #green
    greenMono = monoGreen(originPic4)
    smallGreenMono = scale(greenMono, .788)
    copyInto(smallGreenMono, collage, 622, 168)
        #blue
    blueMono = monoBlue(originPic3)
    smallBlueMono = scale(blueMono, .788)
    copyInto(smallBlueMono, collage, 622, 350)

    #original form
    copyInto(ori, collage, 30, 250)

    #signature
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name = "M"
name2 = "o"
name3 = "r"
name4 = "d"
name5 = "e"
name6 = "k"
name7 = "a"
name8 = "i"
name9 = "C.B."
myFont = makeStyle(mono, bold, 14)
addTextWithStyle(collage, 977, 646, name, myFont, red)
addTextWithStyle(collage, 977, 656, name2, myFont, red)
addTextWithStyle(collage, 977, 666, name3, myFont, red)
addTextWithStyle(collage, 977, 676, name4, myFont, red)
addTextWithStyle(collage, 977, 686, name5, myFont, red)
addTextWithStyle(collage, 977, 696, name6, myFont, red)
addTextWithStyle(collage, 977, 706, name7, myFont, red)
addTextWithStyle(collage, 977, 716, name8, myFont, red)
addTextWithStyle(collage, 977, 726, name9, myFont, red)

#show collage
explore(collage)

#size programs - accepts a picture and scale
def scale(pictureIn, factor):
    picOut = makeEmptyPicture(int(getWidth(pictureIn) * factor),
int getHeight(pictureIn) * factor))
    inX = 0
    for outX in range(0, int(getWidth(pictureIn) * factor)):
        inY = 0
        for outY in range(0, intgetHeight(pictureIn) * factor)):
            color = getColor(getPixel(pictureIn, int(inX), int(inY)))
            setColor(getPixel(picOut, outX, outY), color)
            inY = inY + 1.0 / factor
        inX = inX + 1.0 / factor
    return picOut

#mirrors the photo
def mirror(largeGreyPic):
    allPixels = getAllPixels(largeGreyPic)
    target = len(allPixels) - 1
    for index in range (0,len(allPixels)/ 2):
        topPixel = allPixels[target]
        bottomColor = getColor(topPixel)
        bottomPixel = allPixels[index]
        setColor(bottomPixel, bottomColor)
        target = target - 1
    return(largeGreyPic)

#color programs
def colorSwap(originPic):
    for p in getPixels(originPic):
        r = getRed(p)
        b = getBlue(p)
        g = getGreen(p)

        setRed(p, b)
        setBlue(p, g)
        setGreen(p, r)
    return(originPic)

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def monoRed(originPic2):
    for p in getPixels(originPic2):
        r = getRed(p)
        b = getBlue(p)
        g = getGreen(p)

        setRed(p, 255)
    return(originPic2)

def monoBlue(originPic3):
    for p in getPixels(originPic3):
        r = getRed(p)
        b = getBlue(p)
        g = getGreen(p)

        setBlue(p, 255)
    return(originPic3)

def monoGreen(originPic4):
    for p in getPixels(originPic4):
        r = getRed(p)
        b = getBlue(p)
        g = getGreen(p)

        setGreen(p, 255)
    return(originPic4)

#greyscales photo and returns it
def greyscale(originPic5):
    for p in getPixels(originPic5):
        r = getRed(p)
        g = getGreen(p)
        b = getBlue(p)
        greyValue =(r + g + b)/3.0
        greyColor =makeColor(greyValue, greyValue, greyValue)
        setColor(p,greyColor)
    return(originPic5)

#makes the colors in the photo negative
def negative(originPic6):
    for p in getPixels(originPic6):
        r = getRed(p)
        g = getGreen(p)
        b = getBlue(p)
        negColor = makeColor(255 - r,255 - g, 255 - b)
        setColor(p, negColor)
    return(originPic6)

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