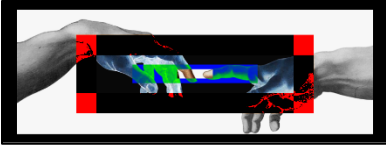
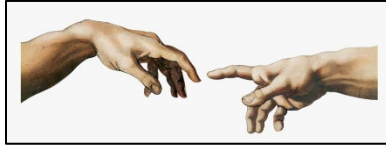


Winston Fultz

Completed



Original



#Winston Fultz 03/24/2021

```
def collage():
    adam= makePicture(getMediaPath("adam.png"))
    blackBox(adam,0,31,0,314)
    blackBox(adam,829,859,0,314)
    blackBox(adam,0,859,0,19)
    blackBox(adam,0,859,295,314)
    grayBox(adam,31,163,19,294)
    grayBox(adam,697,829,19,294)
    grayBox(adam,31,828,250,294)
    grayBox(adam,31,828,19,74)
    blackred(adam,164,209,75,249)
    blackred(adam,651,696,75,249)
    blackred(adam,164,696,204,249)
    blackred(adam,164,696,75,120)
    negative(adam,209,290,120,204)
    negative(adam,570,651,120,204)
    negative(adam,290,570,120,141)
    negative(adam,290,570,182,204)
    bluegreen(adam,290,390,141,182)
    bluegreen(adam,470,570,141,182)
    bluegreen(adam,390,470,141,151)
    bluegreen(adam,390,470,172,182)
    show(adam)
```

```
def blackBox(pic,nx1,nx2,ny1,ny2):
    for x in range(nx1,nx2):
        for y in range(ny1,ny2):
            pix=getPixel(pic,x,y)
            setColor(pix,black)
    return(pic)
```

```
def blackred(picture,xx1,xx2,yy1,yy2):
    for x in range(xx1,xx2):
        for y in range(yy1,yy2):
            px= getPixel(picture,x,y)
            r = getRed(px)
            g = getGreen(px)
            b = getBlue(px)
            px=getPixel(picture,x,y)
            posterize = (r+g+b)/3
            if posterize < 64:
                setColor(px,red)
            if posterize >= 64:
                setColor(px,black)
```

```

def grayBox(pict,x1,x2,y1,y2):
    for x in range(x1,x2):
        for y in range(y1,y2):
            p= getPixel(pict,x,y)
            grey = (getRed(p)+getGreen(p)+getBlue(p))/3
            setColor(p,makeColor(grey,grey,grey))
    return(pict)

def negative(pictures,xn1,xn2,yn1,yn2):
    for x in range(xn1,xn2):
        for y in range(yn1,yn2):
            pixel= getPixel(pictures,x,y)
            red=getRed(pixel)
            green=getGreen(pixel)
            blue=getBlue(pixel)
            negColor=makeColor(255-red, 255-green, 255-blue)
            setColor(pixel,negColor)

def bluegreen(image,nnx,nnx1,nny,nn1):
    for x in range(nnx,nnx1):
        for y in range(nny,nn1):
            pixels= getPixel(image,x,y)
            red=getRed(pixels)
            green=getGreen(pixels)
            blue=getBlue(pixels)
            Color=makeColor(50-red,255-green,blue)
            setColor(pixels,Color)

```

collage()