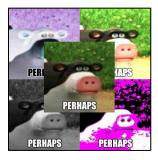
## Mikhayla Palicte

## Completed

## Original





```
# setMediaPath("/Users/mick/cs120")
def collage():
  pic = makePicture("perhaps.jpg")
  pic2 = makePicture("perhaps.jpg")
  pic3 = makePicture("perhaps.jpg")
  pic4 = makePicture("perhaps.jpg")
  pic5 = makePicture("perhaps.jpg")
  sig = makePicture("sign.png")
  sound = makeSound("Boom.wav")
  big picture = makeEmptyPicture(int(getWidth(pic) * 2), int(getHeight(pic) * 2))
  canvas = makeEmptyPicture(getWidth(big picture), getHeight(big picture))
  negative (pic2)
  expose (pic3)
  grayScale(pic4)
  post(pic5)
  copy(pic2, canvas, 0, 0)
  copy(pic3, canvas, getWidth(pic), 0)
  copy(pic4, canvas, 0, getHeight(canvas) -getHeight(pic))
  copy (pic5, canvas, 280, 280)
  copy (pic, canvas, 138, 131)
  add(canvas, sig, 0, 0, black)
  show(canvas)
  play(sound)
def negative (pic2):
  for p in getPixels(pic2):
    r = getRed(p)
    g = getGreen(p)
    b = getBlue(p)
    neg=makeColor(255-r, 255-g, 255-b)
    setColor(p,neg)
def expose(pic3):
  for x in range (0,getWidth(pic3)):
    for y in range (0, getHeight(pic3)):
      p = getPixel(pic3, x, y)
      setColor(p, makeLighter(makeLighter(getColor(p))))
```

```
def grayScale(pic4):
  for p in getPixels(pic4):
    intensity = (getRed(p)+getGreen(p)+getBlue(p))/3
    setColor(p,makeColor(intensity, intensity, intensity))
def post(pic5):
  for p in getPixels(pic5):
    r = getRed(p)
    g = getGreen(p)
    b = getBlue(p)
    lum = (r+g+b)/3
    if lum < 64:
      setColor(p,black)
    elif lum > 120:
      setColor(p, white)
    else:
      setColor(p, magenta)
def copy(source, target, targX, targY):
  targetX = targX
  for sourceX in range(0, getWidth(source)):
    targetY = targY
    for sourceY in range(0, getHeight(source)):
      p = getPixel(source, sourceX, sourceY)
      t = getPixel(target, targetX, targetY)
      setColor(t,getColor(p))
      targetY=targetY +1
    targetX = targetX + 1
def add(target, sig, toX, toY, color):
  toYStart = toY
  for x in range(0, getWidth(sig)):
    toY = toYStart
    for y in range(0,getHeight(sig)):
      p = getPixel(sig, x, y)
      if (getRed(p) < 225 \text{ and } getGreen(p) < 225 \text{ and } getBlue(p) < 225):
        setColor(getPixel(target, toX, toY), color)
      toY = toY + 1
    toX = toX + 1
  return target
```