直線描画

from PIL import Image

from PIL import ImageDraw,ImageColor

img=Image.new('RGB',(300,300),(255,255,255))

draw=ImageDraw.Draw(img)

for n in range(0,10):

draw.line([(50+n\*20,50),(50+n\*20,250)],fill=(255,0,0),width=n)

draw.line([(50,50+n\*20),(250,50+n\*20)],fill=(0,255,255),width=n)

img

四角形

from PIL import Image

from PIL import ImageDraw,ImageColor

img=Image.new('RGB',(300,300),(255,255,255))

draw=ImageDraw.Draw(img)

draw.rectangle([0,0,299,299],outline=(255,0,0))

for n in range(0,10):

draw.rectangle([50+n\*10,50+n\*10,250-n\*10,250-n\*10],fill=(255-n\*25,255-n\*25,255-n\*25))

img

テキスト

from PIL import Image

from PIL import ImageDraw,ImageColor,ImageFont

img=Image.new('RGB',(300,300),(255,255,255))

draw=ImageDraw.Draw(img)

draw.ellipse([50,50,250,250],fill=(255,100,100))

fnt=ImageFont.truetype('arial.ttf',35)

draw.text((10,50),'Hello!',fill=(0,0,255))

draw.text((10,100),'Happy New Year',font=fnt,fill=(0,255,255))

img

ペースト

from PIL import Image

from PIL import ImageDraw,ImageColor,ImageFont

img=Image.open('富士山.jpg')

(w,h)=img.size

img2=img.resize((w//3,h//3))

img.paste(img2,(0,0))

img.paste(img2,(w//3,h//3))

img.paste(img2,(w//3\*2,h//3\*2))

img

カット

from PIL import Image

from PIL import ImageDraw,ImageColor,ImageFont

img=Image.open('富士山.jpg')

(w,h)=img.size

print(w,h)

img2=img.crop([w//5,h//5,w//3,w//3])

img.paste(img2,(1300,50))

img

ブレンド

from PIL import Image

from PIL import ImageDraw,ImageColor,ImageFont

img=Image.open('富士山.jpg')

(w,h)=img.size

img2=Image.new('RGB',(w,h),(255,255,255))

drw=ImageDraw.Draw(img2)

for n in range(0,10):

drw.rectangle([w//10\*n,0,w//10\*(n+1),h],fill=(n\*25,n\*25,n\*25))

bld\_img=Image.blend(img,img2,0.75)

bld\_img

セピア色

import sys

from PIL import Image

img=Image.open('富士山.jpg')

gry=img.convert('L')

r=gry.point(lambda x: x\*1.0)

g=gry.point(lambda x: x\*0.75)

b=gry.point(lambda x: x\*0.5)

img2=Image.merge('RGB',(r,g,b))

img2

オートコントラスト

from PIL import Image

from PIL import ImageOps

img=Image.open('富士山.jpg')

img2=ImageOps.autocontrast(img,cutoff=25)

img2

ポスタリゼーション

from PIL import Image

from PIL import ImageOps

img=Image.open('富士山.jpg')

img2=ImageOps.posterize(img,2)

img2

ソアリゼーション

from PIL import Image

from PIL import ImageOps

img=Image.open('富士山.jpg')

img2=ImageOps.solarize(img,100)

img2

darkerとlighter

from PIL import Image

from PIL import ImageChops

from PIL import ImageDraw,ImageColor

img=Image.open('富士山.jpg')

(w,h)=img.size

img2=Image.new('RGB',(w,h),(255,255,255))

drw=ImageDraw.Draw(img2)

for n in range(0,10):

drw.rectangle([w//10\*n,0,w//10\*(n+1),h],fill=(n\*25,n\*25,n\*25))

#img3=ImageChops.darker(img,img2)

img3=ImageChops.lighter(img,img2)

img3

マスクを用いてはめ込み

from PIL import Image

from PIL import ImageChops

from PIL import ImageDraw,ImageColor

img=Image.open('富士山.jpg')

(w,h)=img.size

img2=Image.new('RGB',(w,h),(255,255,255))

drw=ImageDraw.Draw(img2)

for n in range(0,10):

drw.rectangle([w//10\*n,0,w//10\*(n+1),h],fill=(n\*25,n\*25,n\*25))

msk=Image.new('RGB',(w,h),(255,255,255))

msk\_drw=ImageDraw.Draw(msk)

msk\_drw.ellipse([50,50,w-50,h-50],fill=(0,0,0))

img3=ImageChops.composite(img2,img,msk.convert('L'))

img3