Python 图片尺寸缩放的4种方式

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最近由于网站对图片尺寸的需要，用python写了个小脚本，方便进行图片尺寸的一些调整，特记录如下：

```
# coding=utf-8
import Image
import shutil
import os


class Graphics:
    infile = 'D:\\myimg.jpg'
    outfile = 'D:\\adjust_img.jpg'

    @classmethod
    def fixed_size(cls, width, height):
        """按照固定尺寸处理图片"""
        im = Image.open(cls.infile)
        out = im.resize((width, height),Image.ANTIALIAS)
        out.save(cls.outfile)

    @classmethod
    def resize_by_width(cls, w_divide_h):
        """按照宽度进行所需比例缩放"""
        im = Image.open(cls.infile)
        (x, y) = im.size
        x_s = x
        y_s = x/w_divide_h
        out = im.resize((x_s, y_s), Image.ANTIALIAS)
        out.save(cls.outfile)

    @classmethod
    def resize_by_height(cls, w_divide_h):
```

```
        """按照高度进行所需比例缩放"""
                                        im = Image.open(cls.infile)
        (x, y) = im.size
        x_s = y*w_divide_h
        y_s = y
        out = im.resize((x_s, y_s), Image.ANTIALIAS)
        out.save(cls.outfile)

    @classmethod
    def resize_by_size(cls, size):
        """按照生成图片文件大小进行处理(单位KB)"""
        size *= 1024
        im = Image.open(cls.infile)
        size_tmp = os.path.getsize(cls.infile)
        q = 100
        while size_tmp > size and q > 0:
            print q
            out = im.resize(im.size, Image.ANTIALIAS)
            out.save(cls.outfile, quality=q)
            size_tmp = os.path.getsize(cls.outfile)
            q -= 5
        if q == 100:
            shutil.copy(cls.infile, cls.outfile)

    @classmethod
    def cut_by_ratio(cls, width, height):
        """按照图片长宽比进行分割"""
        im = Image.open(cls.infile)
        width = float(width)
        height = float(height)
        (x, y) = im.size
        if width > height:

         region = (0, int((y-(y * (height / width)))/2), x, int((y+(y * (height / w
        elif width < height:
         region = (int((x-(x * (width / height)))/2), 0, int((x+(x * (width / heigh
        else:                region = (0, 0, x, y)

        #裁切图片
        crop_img = im.crop(region)
        #保存裁切后的图片
        crop_img.save(cls.outfile)
```