

源代码

项目：MAGIC-SCAN 图片编辑系统

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申请分数：92

开发环境：Python3.5

```
# -*- coding: utf-8 -*-
```

```
# Created by: PyQt5 UI code generator 5.6
```

```
#3.17 更新的功能:
```

```
# 修复了打开，保存时候如果没有正确选择文件而导致的异常关闭，增加了退出时候的提醒。
```

```
# 新建了一个默认保存软件图片的文件夹。在C盘下面的Magpic pictures。
```

```
# 全面美化了界面，给背景、按钮都添加了背景图片。
```

```
"""
```

```
注意的地方:
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```
1、图片选择错误的话会自动异常退出
```

```
2、程序报出log4cp1us : ERROR xxx 等等，可以不用理会，不影响运行
```

```
"""
```

```
from PyQt5 import QtCore, QtGui, QtWidgets
```

```
from PyQt5.QtWidgets import *
```

```
from PyQt5.QtCore import QApplication
```

```
# 打开/保存文件的对话框，需要这个包:
```

```
from PyQt5.QtWidgets import QFileDialog
```

```
import PIL
```

```
from PIL import Image, ImageFilter, ImageFont, ImageDraw, ImageEnhance
```

```
from PyQt5 import QtCore, QtGui, QtWidgets
```

```
from PyQt5.QtGui import *
```

```
import sys
```

```
import os
```

```
import argparse
```

```
import cv2
```

```
# 创建默认存放文件的文件夹:
```

```
cur_dir="C:"
```

```
folder_name='Magpic pictures'
```

```
if os.path.isdir("C:/Magpic pictures"):
```

```
    print("Already exist!")
```

```
else: os.mkdir(os.path.join(cur_dir, folder_name))
```

```
# 为了字符画而创建的字符集，共70个字符。
```

```
ascii_char = list("$@B%8&WM#*oahkbdpqwmZO0QLCJUYXzcvunxrjft/\|()1{}[]?-_+~<>i!lI;,:\"`^'.  
")
```

```
class Ui_MainWindow(QMainWindow):
```

```
    def __init__(self):
```

```
        super().__init__()
```

```
        self.setupUi(self)
```

```
        self.retranslateUi(self)
```

```

self.setWindowTitle("MagicPicPS")
self.setWindowIcon(QIcon("icon/logo.ico"))
# 定义了一些图片, filename 存放的是打开图片的文件名, newPic 存放 P 图后的文件,
# origPic 存放一个初始化图片, 这个先忽略吧。
self.filename="pic\\bg.png"
self.newPic="pic\\bg.png"
self.origPic=Image.open("E:\\python_project_space\\APP\\GUI\\pic\\bg.png")
self.origPic.save("E:\\python_project_space\\APP\\GUI\\pic\\tempPic.png")
self.sliderPic=""
self.if_sliderPic=False #是否保存 sliderPic

#-----窗口初始化函数:-----
def setupUi(self, MainWindow):
    MainWindow.setObjectName("MainWindow")
    MainWindow.resize(1280, 700) # 本来是 1440*900 这里换成 1280*800
    MainWindow.setStyleSheet("background")
    self.centralWidget = QtWidgets.QWidget(MainWindow)
    self.centralWidget.setObjectName("centralWidget")
    self.verticalLayout = QtWidgets.QVBoxLayout(self.centralWidget)
    self.verticalLayout.setContentsMargins(11, 11, 11, 11)
    self.verticalLayout.setSpacing(0)
    self.verticalLayout.setObjectName("verticalLayout")
    self.widget = QtWidgets.QWidget(self.centralWidget)
    self.widget.setMinimumSize(QtCore.QSize(500, 500)) # 500, 500
    self.widget.setStyleSheet("background-color:rgb(60, 63, 65);")
    self.widget.setObjectName("widget")
    self.horizontalLayout = QtWidgets.QHBoxLayout(self.widget)
    self.horizontalLayout.setContentsMargins(11, 11, 11, 11)
    self.horizontalLayout.setSpacing(6)
    self.horizontalLayout.setObjectName("horizontalLayout")

# 图片区域:
    self.picArea = QtWidgets.QWidget(self.widget)
    self.picArea.setEnabled(True)
    self.picArea.setMinimumSize(QtCore.QSize(300, 0))
    self.picArea.setStyleSheet("background-color:rgb(43, 43, 43);background-
image:url(pic/bg.png);") ###@@@这里加了:
    self.picArea.setObjectName("picArea")

# 放置图片的标签:
    self.picLabel = QtWidgets.QLabel(self.picArea)
    self.picLabel.setGeometry(QtCore.QRect(0, 0, 1005, 622)) # 这个就是图片的最
大像素。
    self.picLabel.setObjectName("picLabel")
    self.horizontalLayout.addWidget(self.picArea)

```

```

        self.picLabel.setStyleSheet("background-color:red;color:red;vertical-align:super;")
# 工具区域:
        self.toolArea = QtWidgets.QWidget(self.widget)
        self.toolArea.setMinimumSize(QtCore.QSize(250, 600))
        self.toolArea.setMaximumSize(QtCore.QSize(250, 800))
        self.toolArea.setStyleSheet("background-color:rgb(185, 148, 106);background-
image:url(images/wood4.jpg);")
        self.toolArea.setObjectName("toolArea")
# 工具栏:
        self.toolbox = QtWidgets.QToolBox(self.toolArea)
        self.toolbox.setGeometry(QtCore.QRect(0, 0, 251, 600))    # 0, 0, 251, 600
        # ! ! ! ! ! ! ! ! 这里本来是 741, 因为有的屏幕分辨率比较低, 这样下面的一些工具栏就显
        示不出来了。
        self.toolbox.setMinimumSize(QtCore.QSize(0, 0))
        self.toolbox.setObjectName("toolbox")
        self.toolbox.setStyleSheet("font:bold;font-family:微软雅黑;font-size:16px;")
# 工具栏第一页 (菜鸟页):
        self.page1 = QtWidgets.QWidget()
        self.page1.setGeometry(QtCore.QRect(0, 0, 251, 581))
        self.page1.setObjectName("page1")
# 放大按钮:
        self.bigger_Button = QtWidgets.QPushButton(self.page1)
        self.bigger_Button.setGeometry(QtCore.QRect(40, 15, 52, 52))
        self.bigger_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/plus1.png);")
        self.bigger_Button.setObjectName("bigger_Button")
        self.bigger_Button.clicked.connect(self.bigger)    # bigger 的信息槽
# 缩小按钮:
        self.smaller_Button = QtWidgets.QPushButton(self.page1)
        self.smaller_Button.setGeometry(QtCore.QRect(160, 15, 52, 52))
        self.smaller_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/minus1.png);")
        self.smaller_Button.setObjectName("smaller_Button")
        self.smaller_Button.clicked.connect(self.smaller)    # smaller 的信息槽
# 旋转按钮:
        self.rotate_Button = QtWidgets.QPushButton(self.page1)
        self.rotate_Button.setGeometry(QtCore.QRect(60, 95, 141, 51))    # QRect (左
        上角, 宽, 高)
        self.rotate_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/button_01.png);",)    # 添加了背景图片!

```

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self.rotate_Button.setObjectName("rotate_Button")
self.rotate_Button.clicked.connect(self.rotatePic)                ## 信息槽
# 上下翻转: top-bottom
self.TB_Button = QtWidgets.QPushButton(self.page1)
self.TB_Button.setGeometry(QtCore.QRect(60, 150, 141, 51))
self.TB_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/button_02.png)")
self.TB_Button.setObjectName("TB_Button")
self.TB_Button.clicked.connect(self.TBPic)                        ## 信息槽
# 左右翻转: left-right
self.LR_Button = QtWidgets.QPushButton(self.page1)
self.LR_Button.setGeometry(QtCore.QRect(60, 205, 141, 51))
self.LR_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/button_07.png)")
self.LR_Button.setObjectName("LR_Button")
self.LR_Button.clicked.connect(self.LRPic)                        ## 信息槽
# 拼接按钮:
self.together_Button = QtWidgets.QPushButton(self.page1)
self.together_Button.setGeometry(QtCore.QRect(60, 270, 141, 51))
self.together_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/button_04.png)")
self.together_Button.setObjectName("together_Button")
self.together_Button.clicked.connect(self.together)              ## 拼接的信息槽
# 剪切按钮:
self.cut_Button = QtWidgets.QPushButton(self.page1)
self.cut_Button.setGeometry(QtCore.QRect(60, 325, 141, 51))
self.cut_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/button_05.png)")
self.cut_Button.setObjectName("cut_Button")

# 局部消除（去水印）按钮:
self.addSig_Button = QtWidgets.QPushButton(self.page1)
self.addSig_Button.setGeometry(QtCore.QRect(60, 380, 141, 51))
self.addSig_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/button_06.png)")
self.addSig_Button.setObjectName("addSig_Button")
self.addSig_Button.clicked.connect(self.add)                      ## 信息槽
self.toolbox.addItem(self.page1, "")
# 工具栏第二页（进阶页）:

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self.page2 = QtWidgets.QWidget()
self.page2.setGeometry(QtCore.QRect(0, 0, 251, 581))
self.page2.setObjectName("page2")
# 模糊化滑动条:
self.blur_Slider = QtWidgets.QSlider(self.page2)
self.blur_Slider.setGeometry(QtCore.QRect(20, 20, 211, 22))
self.blur_Slider.setOrientation(QtCore.Qt.Horizontal)
self.blur_Slider.setObjectName("blur_Slider")
self.blur_Slider.setMinimum(0)
self.blur_Slider.setMaximum(50)
self.blur_Slider.valueChanged.connect(self.MagicBarPic) # 模糊化的信号-槽

# 锐化滑动条:
self.sharpen_Slider = QtWidgets.QSlider(self.page2)
self.sharpen_Slider.setGeometry(QtCore.QRect(20, 100, 211, 22))
self.sharpen_Slider.setOrientation(QtCore.Qt.Horizontal)
self.sharpen_Slider.setObjectName("sharpen_Slider")
self.sharpen_Slider.valueChanged.connect(self.MagicBarPic) # 锐化的信号-槽

# 油画滑动条:
self.oil_Slider = QtWidgets.QSlider(self.page2)
self.oil_Slider.setGeometry(QtCore.QRect(20, 180, 211, 22))
self.oil_Slider.setOrientation(QtCore.Qt.Horizontal)
self.oil_Slider.setObjectName("oil_Slider")
self.oil_Slider.setMinimum(0)
self.oil_Slider.setMaximum(30)
self.oil_Slider.valueChanged.connect(self.MagicBarPic) # 油画的信号-槽

# 七彩 滑动条:
self.colorful_Slider = QtWidgets.QSlider(self.page2)
self.colorful_Slider.setGeometry(QtCore.QRect(20, 260, 211, 22))
self.colorful_Slider.setOrientation(QtCore.Qt.Horizontal)
self.colorful_Slider.setObjectName("colorful_Slider")
self.colorful_Slider.setMinimum(0)
self.colorful_Slider.setMaximum(44)
self.colorful_Slider.valueChanged.connect(self.MagicBarPic) # 七彩的信号-槽

# 下面这些分别是这些滑动条的标签:
self.blur_label = QtWidgets.QLabel(self.page2)
self.blur_label.setGeometry(QtCore.QRect(50, 35, 151, 31))
self.blur_label.setStyleSheet("margin:0 auto;\n"
"font:bold;\n"
"font-family:微软雅黑;")
self.blur_label.setObjectName("blur_label")
self.sharpen_label = QtWidgets.QLabel(self.page2)
self.sharpen_label.setGeometry(QtCore.QRect(60, 115, 131, 31))
self.sharpen_label.setStyleSheet("margin:0 auto;\n"

```

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"font:bold;\n"
"font-family:微软雅黑;")
    self.sharpen_label.setObjectName("sharpen_label")
    self.oil_label = QtWidgets.QLabel(self.page2)
    self.oil_label.setGeometry(QtCore.QRect(60, 195, 121, 31))
    self.oil_label.setStyleSheet("margin:0 auto;\n"
"font:bold;\n"
"font-family:微软雅黑;")
    self.oil_label.setObjectName("oil_label")
    self.colorful_label = QtWidgets.QLabel(self.page2)
    self.colorful_label.setGeometry(QtCore.QRect(60, 275, 121, 31))
    self.colorful_label.setStyleSheet("margin:0 auto;\n"
"font:bold;\n"
"font-family:微软雅黑;")
    self.colorful_label.setObjectName("colorful_label")
    # 保存模糊、锐化、油画按钮: !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
    self.saveSlider_Button = QtWidgets.QPushButton(self.page2)
    self.saveSlider_Button.setGeometry(QtCore.QRect(60, 310, 141, 51))
    self.saveSlider_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:red;")
    self.saveSlider_Button.setObjectName("saveSlider_Button")
    self.saveSlider_Button.clicked.connect(self.saveSlider) #保存模糊、锐化、油画按钮: !!!!!!!

    self.toolbox.addItem(self.page2, "")
    # 工具栏第三页（我是逗逼页）：
    self.page3 = QtWidgets.QWidget()
    self.page3.setObjectName("page3")

    # 融合按钮：
    self.blend_Button = QtWidgets.QPushButton(self.page3)
    self.blend_Button.setGeometry(QtCore.QRect(30, 15, 191, 51))
    self.blend_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-image:url(images/bigger_button_7.png)")
    self.blend_Button.setObjectName("blend_Button")
    self.blend_Button.clicked.connect(self.blend)
    # 生成字符画按钮：
    self.charPic_Button = QtWidgets.QPushButton(self.page3)
    self.charPic_Button.setGeometry(QtCore.QRect(30, 70, 191, 51))
    self.charPic_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-image:url(images/bigger_button_8.png)")

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self.charPic_Button.setObjectName("charPic_Button")
self.charPic_Button.clicked.connect(self.createCodePic)    # 生成字符画的信息-槽
# 生成表情包按钮:
self.emoji_Button = QtWidgets.QPushButton(self.page3)
self.emoji_Button.setGeometry(QtCore.QRect(30, 125, 191, 51))
self.emoji_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/bigger_button_9.png)")
self.emoji_Button.setObjectName("emoji_Button")
self.emoji_Button.clicked.connect(self.emoji)              ## 信息槽
# 计算脸缘（相似度）按钮:
self.similar_Button = QtWidgets.QPushButton(self.page3)
self.similar_Button.setGeometry(QtCore.QRect(30, 180, 191, 51))    # 191, 51
self.similar_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/bigger_button_1.png)")
self.similar_Button.setObjectName("similar_Button")
self.similar_Button.clicked.connect(self.compare)          ## 信息槽
# 变形按钮:
self.shape_Button = QtWidgets.QPushButton(self.page3)
self.shape_Button.setGeometry(QtCore.QRect(30, 235, 191, 51))
self.shape_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/bigger_button_2.png)")
self.shape_Button.setObjectName("shape_Button")
# self.shape_Button.clicked.connect(self.add)              ## 信息槽
self.toolbox.addItem(self.page3, "")
# 工具栏第四页（滤镜页）:
self.page4 = QtWidgets.QWidget()
self.page4.setObjectName("page4")
# 添加一个说明标签:
self.notice_label = QtWidgets.QLabel(self.page4)
self.notice_label.setGeometry(QtCore.QRect(0, 5, 250, 100))
self.notice_label.setStyleSheet("margin:0 auto;\n"
"font:bold;\n"
"font-family:微软雅黑;\n"
"color:red;\n"
"font-size:14px\n"
)
self.notice_label.setObjectName("blur_label")

# 黑白空间按钮:
self.bnw_Button = QtWidgets.QPushButton(self.page4)
self.bnw_Button.setGeometry(QtCore.QRect(30, 115, 191, 51))

```



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        self.bnw_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/pen.png);border:4px solid black;border-radius:5%")
        self.bnw_Button.setObjectName("bnw_Button")
        self.bnw_Button.clicked.connect(self.bnwPic)                ##黑白照片 的信息-槽
        # 显示轮廓
        self.contour_Button = QtWidgets.QPushButton(self.page4)
        self.contour_Button.setGeometry(QtCore.QRect(30, 170, 191, 51))
        self.contour_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/lunkuo.png);border:4px solid rgb(147,130,114);border-radius:5%")
        self.contour_Button.setObjectName("contour_Button")
        self.contour_Button.clicked.connect(self.contourPic)        ##轮廓 的信息-槽
        # 浮雕:
        self.emboss_Button = QtWidgets.QPushButton(self.page4)
        self.emboss_Button.setGeometry(QtCore.QRect(30, 225, 191, 51))
        self.emboss_Button.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/emboss.png);border:4px solid rgb(32,32,32);border-radius:5%;")
        self.emboss_Button.setObjectName("emboss_Button")
        self.emboss_Button.clicked.connect(self.embossPic)          ## 浮雕 的信息-槽
        # 熔岩魔鬼 按钮:
        self.fireGoast_pushButton = QtWidgets.QPushButton(self.page4)
        self.fireGoast_pushButton.setGeometry(QtCore.QRect(30, 280, 191, 51))
        self.fireGoast_pushButton.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;background-color:transparent;background-
image:url(images/rongyan.png);border:4px solid rgb(146,14,14);border-
radius:5%;color:orange")
        self.fireGoast_pushButton.setObjectName("fireGoast_pushButton")
        self.fireGoast_pushButton.clicked.connect(self.fireGoastPic) ## 熔岩魔鬼 的信息-槽
        self.picArea.raise_()
        self.bnw_Button.raise_()
        self.contour_Button.raise_()
        self.emboss_Button.raise_()
        self.fireGoast_pushButton.raise_()
        self.toolbox.addItem(self.page4, "")
        self.horizontalLayout.addWidget(self.toolArea)
        self.verticalLayout.addWidget(self.widget)

        #窗口底部 footer:
        self.footer = QtWidgets.QWidget(self.centralWidget)
        self.footer.setMaximumSize(QtCore.QSize(1280, 100))
        self.footer.setMinimumSize(QtCore.QSize(200, 32))
        self.footer.setStyleSheet("background-color:transparent;background-
image:url(images/wood4.jpg)") # 底部的样式

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        self.footer.setObjectName("footer")
# 底部有 5 个标签: footerLabel1--footerLabel5,
# 还有三个显示时、分、秒的数字屏 lcdH、lcdM、lcdS:
        self.footerLabel1 = QtWidgets.QLabel(self.footer)
        self.footerLabel1.setGeometry(QtCore.QRect(100, 10, 251, 31))
        self.footerLabel1.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;\n"
"color:darkblue;")
        self.footerLabel1.setObjectName("footerLabel1")
        self.lcdH = QtWidgets.QLCDNumber(self.footer)
        self.lcdH.setGeometry(QtCore.QRect(340, 0, 71, 51))    # 340, 2, 71, 51
        self.lcdH.setObjectName("lcdH")
        self.footerLabel2 = QtWidgets.QLabel(self.footer)
        self.footerLabel2.setGeometry(QtCore.QRect(430, 11, 31, 31))
        self.footerLabel2.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;\n"
"color:darkblue;")
        self.footerLabel2.setObjectName("footerLabel2")
        self.lcdM = QtWidgets.QLCDNumber(self.footer)
        self.lcdM.setGeometry(QtCore.QRect(460, 1, 71, 51))
        self.lcdM.setObjectName("lcdM")
        self.footerLabel3 = QtWidgets.QLabel(self.footer)
        self.footerLabel3.setGeometry(QtCore.QRect(550, 10, 31, 31))
        self.footerLabel3.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;\n"
"color:darkblue;")
        self.footerLabel3.setObjectName("footerLabel3")
        self.lcdS = QtWidgets.QLCDNumber(self.footer)
        self.lcdS.setGeometry(QtCore.QRect(580, 1, 71, 51))
        self.lcdS.setObjectName("lcdS")
        self.footerLabel4 = QtWidgets.QLabel(self.footer)
        self.footerLabel4.setGeometry(QtCore.QRect(670, 10, 31, 31))
        self.footerLabel4.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;\n"
"color:darkblue;")
        self.footerLabel4.setObjectName("footerLabel4")
        self.footerLabel5 = QtWidgets.QLabel(self.footer)
        self.footerLabel5.setGeometry(QtCore.QRect(700, 10, 251, 31))
        self.footerLabel5.setStyleSheet("font:bold;\n"
"font-family:微软雅黑;\n"
"color:darkblue;")
        self.footerLabel5.setObjectName("footerLabel5")
        self.verticalLayout.addWidget(self.footer)
        MainWindow.setCentralWidget(self.centralWidget)

```

```

# 菜单栏:
self.menuBar = QtWidgets.QMenuBar(MainWindow)
self.menuBar.setGeometry(QtCore.QRect(0, 0, 1280, 36))
self.menuBar.setStyleSheet("background-color:rgb(185,148,106);background-
image:url(images/wood4.jpg);font-size:16px;font-family:微软雅黑;")
self.menuBar.setObjectName("menuBar")
# 文件菜单:
self.menuFile = QtWidgets.QMenu(self.menuBar)
self.menuFile.setObjectName("menuFile")
self.menuFile.setStyleSheet("")
# 帮助菜单:
self.menuHelp = QtWidgets.QMenu(self.menuBar)
self.menuHelp.setObjectName("menuHelp")
# 分享菜单:
self.menuShare = QtWidgets.QMenu(self.menuBar)
self.menuShare.setObjectName("menuShare")
MainWindow.setMenuBar(self.menuBar)
# 说明书动作:
self.actionGuide = QtWidgets.QAction(MainWindow)
self.actionGuide.setObjectName("actionGuide")
# 联系我们动作:
self.actionContact = QtWidgets.QAction(MainWindow)
self.actionContact.setObjectName("actionContact")
# 分享到微信和QQ的动作:
self.actionWeChat = QtWidgets.QAction(MainWindow)
self.actionWeChat.setObjectName("actionWeChat")
self.actionQQ = QtWidgets.QAction(MainWindow)
self.actionQQ.setObjectName("actionQQ")
# 打开文件动作:
self.actionOpen = QtWidgets.QAction(MainWindow)
self.actionOpen.setObjectName("actionOpen")
self.actionOpen.triggered.connect(self.openPic) ## 打开图片的信息-槽
# 保存文件动作:
self.actionSave = QtWidgets.QAction(MainWindow)
self.actionSave.setObjectName("actionSave")
self.actionSave.triggered.connect(self.savePic) ## 保存图片的信息-槽
# 退出动作:
self.actionQuit = QtWidgets.QAction(MainWindow)
self.actionQuit.setObjectName("actionQuit")
self.actionQuit.triggered.connect(QCoreApplication.quit)

self.menuFile.addAction(self.actionOpen)

```

```

self.menuFile.addAction(self.actionSave)
self.menuFile.addSeparator()
self.menuFile.addAction(self.actionQuit)
self.menuHelp.addAction(self.actionGuide)
self.menuHelp.addAction(self.actionContact)
self.menuShare.addAction(self.actionWeChat)
self.menuShare.addAction(self.actionQQ)
self.menuBar.addAction(self.menuFile.menuAction())
self.menuBar.addAction(self.menuHelp.menuAction())
self.menuBar.addAction(self.menuShare.menuAction())

self.retranslateUi(MainWindow)
self.toolbox.setCurrentIndex(0) # 设置最开始显示的工具栏
QtCore.QMetaObject.connectSlotsByName(MainWindow)
# -----组件翻译函数: -----
-----

def retranslateUi(self, MainWindow): # 这个函数好像是专门给组件命名的。
    _translate = QtCore.QCoreApplication.translate
    MainWindow.setWindowTitle(_translate("MainWindow", "MainWindow"))
    self.picLabel.setText(_translate("MainWindow", " "))
    # 在这里设置初始的背景图片:
    # 这个如果放在前面(定义标签的时候), 就显示不出来了。
    self.pic=QtGui.QPixmap("pic\\bg.png")
    self.picLabel.setPixmap(self.pic)

    self.bigger_Button.setText(_translate("MainWindow", " ")) #大
    self.smaller_Button.setText(_translate("MainWindow", " ")) #小
    self.rotate_Button.setText(_translate("MainWindow", "旋转吧🔄"))
    self.TB_Button.setText(_translate("MainWindow", "上下倒立🔃"))
    self.LR_Button.setText(_translate("MainWindow", "照镜子🪞"))
    self.together_Button.setText(_translate("MainWindow", "图图拼接"))
    self.cut_Button.setText(_translate("MainWindow", "剪切✂️"))
    self.toolbox.setItemText(self.toolbox.indexOf(self.page1), _translate("MainWindow",
"基本工具"))
    self.blur_label.setText(_translate("MainWindow", "模糊化"))
    self.sharpen_label.setText(_translate("MainWindow", "锐化"))
    self.oil_label.setText(_translate("MainWindow", "油画"))
    self.colorful_label.setText(_translate("MainWindow", "七彩"))
    self.saveSlider_Button.setText(_translate("MainWindow", "保存修改"))
    self.addSig_Button.setText(_translate("MainWindow", "个性签名✍️"))
    self.toolbox.setItemText(self.toolbox.indexOf(self.page2), _translate("MainWindow",
"超级魔法棒"))

    self.blend_Button.setText(_translate("MainWindow", "@@图片融合术"))

```

```

self.charPic_Button.setText(_translate("MainWindow", "->#生成字符画"))
self.emoji_Button.setText(_translate("MainWindow", "😊😊😊制作表情包"))
self.similar_Button.setText(_translate("MainWindow", "❤️o❤️我爱算脸缘"))
self.shape_Button.setText(_translate("MainWindow", ">_<形变。。待定??"))
self.toolbox.setItemText(self.toolbox.indexOf(self.page3), _translate("MainWindow",
"我是逗逼"))

self.notice_label.setText(_translate("MainWindow", "提醒: \n 魔力太强大, 不能恢复!
\n 建议每个效果只使用 1 次"))
self.bnw_Button.setText(_translate("MainWindow", "黑白空间■"))
self.contour_Button.setText(_translate("MainWindow", "轮廓印象▨"))
self.emboss_Button.setText(_translate("MainWindow", "浮雕变化▣"))
self.fireGoast_pushButton.setText(_translate("MainWindow", "熔岩魔鬼😈"))
self.toolbox.setItemText(self.toolbox.indexOf(self.page4), _translate("MainWindow",
"潘多拉魔盒"))

self.footerLabel1.setText(_translate("MainWindow", "您已经在 MagicPicPS 花费了"))
self.footerLabel2.setText(_translate("MainWindow", "时"))
self.footerLabel3.setText(_translate("MainWindow", "分"))
self.footerLabel4.setText(_translate("MainWindow", "秒"))
self.footerLabel5.setText(_translate("MainWindow", "的美好时光~0(∩_∩)0~"))
self.menuFile.setTitle(_translate("MainWindow", "文件"))
self.menuHelp.setTitle(_translate("MainWindow", "帮助"))
self.menuShare.setTitle(_translate("MainWindow", "分享"))
self.actionGuide.setText(_translate("MainWindow", "说明书"))
self.actionContact.setText(_translate("MainWindow", "撩我们"))
self.actionWeChat.setText(_translate("MainWindow", "分享到微信"))
self.actionQQ.setText(_translate("MainWindow", "分享到 QQ"))
self.actionOpen.setText(_translate("MainWindow", "打开"))
self.actionSave.setText(_translate("MainWindow", "保存"))
self.actionQuit.setText(_translate("MainWindow", "强行退出"))

#-----功能函数区:-----
##打开和保存:
def openPic(self):
    #初始化 slider 的值:
    self.blur_Slider.setValue(0)
    self.sharpen_Slider.setValue(0)
    self.colorful_Slider.setValue(0)
    self.oil_Slider.setValue(0)

    address=QFileDialog.getOpenFileName(self,"亲, 选取一张图片哦!", "F:\视频·图片\图
片!!! \上财照片", "Image files (*.png *.jpg *.jpeg *.gif);;all files (*.*)")
    self.filename=address[0]    # 这个 address 是一个列表, 所以需要取第一项

```

```

if self.filename:
    print(self.filename)
    # 把这个图片显示在画面上:
    self.pic=QtGui.QPixmap(self.filename)
    self.picLabel.setPixmap(self.pic)
    self.newPic=Image.open(self.filename)
    ## 要把新打开的图片, 和所有修改过的图片, 都存进 tempPic.jpg 里面, 作为一个中间变
量。

    self.newPic.save("pic\\tempPic.png")
    self.newPic="pic\\tempPic.png"

```

```

def savePic(self):
    print("1")
    saveAddress=QFileDialog.getSaveFileName(self, "保存文件", "C:/Magpic pictures", "Image
files(*.png *.jpg *.jpeg *.gif);;all files(*.*)")
    print("2")
    if saveAddress[0]:
        self.newPic=Image.open("pic\\tempPic.png") # 注意, 每一次 open, 都把 newPic 重
新赋值了。

        self.newPic.save(saveAddress[0]) # 保存新图片 newPic
        self.newPic="pic\\tempPic.png"
        print("3")
        print(saveAddress[0], "已经保存成功!")

```

退出警告:

```

def closeEvent(self, event): # 这个 closeEvent 是父类的方法, 这里把它重写了一下!
    reply = QMessageBox.question(self, "Waring", "<b><font color=red>嘿! 你真的就这么走
了吗? </font></b>",
                                QMessageBox.Yes | QMessageBox.No, QMessageBox.No)

    if reply == QMessageBox.Yes:
        event.accept()
    if reply == QMessageBox.No:
        event.ignore()

```

模糊化:

```

def MagicBarPic(self):
    # 首先获取原始图片:
    # getPic=Image.open(self.filename)
    getPic=Image.open(self.newPic)
    blur_radiusValue=self.blur_Slider.value() # 参数的值

```

```

sharpen_radiusValue=self.sharpen_Slider.value()
oil_sizeValue=self.oil_Slider.value()
alpha=self.colorful_Slider.value()

# 对图片进行处理, 形成新图片:
self.newPic=getPic.filter(ImageFilter.GaussianBlur(radius=blur_radiusValue)) #模糊
化

self.newPic.save("pic\\sliderPic.png") #如果没有这一步, 上面的效果会被下面的直接覆盖
掉。

self.newPic=self.newPic.filter(ImageFilter.UnsharpMask(radius=sharpen_radiusValue, percent=30
0, threshold=3)) # 锐化
self.newPic.save("pic\\sliderPic.png")
self.newPic=self.newPic.filter(ImageFilter.ModeFilter(size=oil_sizeValue)) # 油画
# 处理完之后, 保存为 tempPic.jpg:
self.newPic.save("pic\\sliderPic.png")

# 七彩处理————
size = self.newPic.size
colorfulPic = Image.new('RGB', size)
p_pic = self.newPic.load()
p_colorfulPic = colorfulPic.load()
# —————

# 七彩处理: —————
# alpha = 0 # 0~44
for i in range(size[0]):
    for j in range(size[1]):
        if alpha == 0:
            p_colorfulPic[i, j] = p_pic[i, j]
        elif p_pic[i, j][0] < alpha and p_pic[i, j][1] < alpha and p_pic[i, j][2] <
alpha:
            p_colorfulPic[i, j] = (155, 7, 129)
        elif p_pic[i, j][0] < alpha * 2 and p_pic[i, j][1] < alpha * 2 and p_pic[i,
j][2] < alpha * 2:
            p_colorfulPic[i, j] = (29, 32, 137)
        elif p_pic[i, j][0] < alpha * 3 and p_pic[i, j][1] < alpha * 3 and p_pic[i,
j][2] < alpha * 3:
            p_colorfulPic[i, j] = (0, 142, 216)
        elif p_pic[i, j][0] < alpha * 4 and p_pic[i, j][1] < alpha * 4 and p_pic[i,
j][2] < alpha * 4:
            p_colorfulPic[i, j] = (12, 165, 62)
        elif p_pic[i, j][0] < alpha * 5 and p_pic[i, j][1] < alpha * 5 and p_pic[i,
j][2] < alpha * 5:

```

```

        p_colorfulPic[i, j] = (255, 228, 1)
        elif p_pic[i, j][0] < 225 and p_pic[i, j][1] < (255 - alpha * 5) - 25 and
p_pic[i, j][2] < (
            255 - alpha * 5) - 25:
            p_colorfulPic[i, j] = (242, 146, 0)
        else:
            p_colorfulPic[i, j] = (230, 0, 19)
    colorfulPic.save("pic\\sliderPic.png")

# -----
    self.newPic="pic\\tempPic.png" !!!!!!!不能写 sliderPic, 因为每一次点击, 都会打
开一个新的 newPic, 如果把 newPic 存放成了 sliderPic.png, 那么下次打开的时候效果还是会累加无法
复原。

    # 在画面上展示一下效果:
    self.pic=QtGui.QPixmap("pic\\sliderPic.png")
    self.picLabel.setPixmap(self.pic)

def saveSlider(self):
    sliderPic=Image.open("pic\\sliderPic.png")
    sliderPic.save("pic\\tempPic.png")
    self.newPic="pic\\tempPic.png"

# 各种旋转:
def rotatePic(self):
    print(self.newPic)
    getPic=Image.open(self.newPic)
    self.newPic=getPic.transpose(PIL. Image. ROTATE_90)
    self.newPic.save("pic\\tempPic.png") # !!!!注意, 这里虽然 newPic 保存成 tempPic, 但
是 newPic 的值却不等于这个地址。在上一步的时候, newPic 的值被替换成了一个中间格式。
    # print(self.newPic) # 这里可以看出, 此时 newPic 的值并不是 tempPic.png, 需要下一步:
    self.newPic="pic\\tempPic.png"
    self.pic=QtGui.QPixmap("pic\\tempPic.png")
    self.picLabel.setPixmap(self.pic)

def TBPic(self):
    print(self.newPic)
    getPic=Image.open(self.newPic)
    self.newPic=getPic.transpose(PIL. Image. FLIP_TOP_BOTTOM)
    self.newPic.save("pic\\tempPic.png") # 注意, 这里虽然 newPic 保存成 tempPic, 但是
newPic 的值却不等于这个地址。在上一步的时候, newPic 的值被替换成了一个中间格式。
    # print(self.newPic) # 这里可以看出, 此时 newPic 的值并不是 tempPic.png, 需要下一步:
    self.newPic="pic\\tempPic.png"
    self.pic=QtGui.QPixmap("pic\\tempPic.png")
    self.picLabel.setPixmap(self.pic)

```



```

def LRPic(self):
    print(self.newPic)
    getPic=Image.open(self.newPic)
    self.newPic=getPic.transpose(PIL. Image. FLIP_LEFT_RIGHT)
    self.newPic.save("pic\\tempPic.png") # 注意, 这里虽然 newPic 保存成 tempPic, 但是
newPic 的值却不等于这个地址。在上一步的时候, newPic 的值被替换成了一个中间格式。
    # print(self.newPic) # 这里可以看出, 此时 newPic 的值并不是 tempPic.png, 需要下一步:
    self.newPic="pic\\tempPic.png"
    self.pic=QtGui.QPixmap("pic\\tempPic.png")
    self.picLabel.setPixmap(self.pic)

```

拼接:

```

def together(self):
    address=QFileDialog.getOpenFileNames(self,"请选择要拼接的图片（2 张）
(*^_^*)", "C:/")
    if address[0]:
        num=len(address[0]) #因为这个 address 的第一项才存放的地址。
        print("有", num, "个文件被选出来了：")

        width=350
        height=350
        self.newPic=Image.new('RGB', (width*num, height))
        print("hhhhhhhhhhhhhh")
        for i in range(num):
            print(address[0][i])
            oriPic=Image.open(address[0][i]) # 导入每一张图片
            resizePic=oriPic.resize((width, height))

            self.newPic.paste(resizePic, (i*width, 0))
        print("1111111")
        self.newPic.save("pic\\tempPic.png")
        print("2222222")
        self.pic=QtGui.QPixmap("pic\\tempPic.png")
        print("3333333")
        self.picLabel.setPixmap(self.pic)
        print("4444444")
        self.newPic.resize((width*num, height)).save("pic\\tempPic.png")
        self.newPic="pic\\tempPic.png"

```

图片融合术:

```

def blend(self):
    address=QFileDialog.getOpenFileNames(self,"请选择要拼接的图片（两张哦！）

```

```

(*^__^*)", "C:/")
    if address[0]:
        print("第一个文件是: ", address[0][0])
        print("第二个文件是: ", address[0][1])
        pic1=Image.open(address[0][0])
        pic2=Image.open(address[0][1])
        width=600
        height=600
        pic1=pic1.resize((width,height))

        pic2=pic2.resize((width, height))
        self.newPic=Image.blend(pic1.convert("RGBA"),pic2.convert("RGBA"),alpha=0.5)

        self.newPic.save("pic\\tempPic.png")
        print("2222222")
        self.pic=QtGui.QPixmap("pic\\tempPic.png")
        print("3333333")
        self.picLabel.setPixmap(self.pic)
        print("444444444")
        self.newPic="pic\\tempPic.png"

```

轮廓:

```

def contourPic(self):
    print(self.newPic)
    getPic = Image.open(self.newPic)
    self.newPic = getPic.filter(ImageFilter.CONTOUR)
    self.newPic.save("pic\\tempPic.png") # 注意, 这里虽然 newPic 保存成 tempPic, 但是
newPic 的值却不等于这个地址。在上一步的时候, newPic 的值被替换成了一个中间格式。
    # print(self.newPic) # 这里可以看出, 此时 newPic 的值并不是 tempPic.png, 需要下一步:
    self.newPic = "pic\\tempPic.png"
    self.pic = QtGui.QPixmap("pic\\tempPic.png")
    self.picLabel.setPixmap(self.pic)

```

浮雕:

```

def embossPic(self):
    print(self.newPic)
    getPic = Image.open(self.newPic)
    self.newPic = getPic.filter(ImageFilter.EMBOSS)
    self.newPic.save("pic\\tempPic.png") # 注意, 这里虽然 newPic 保存成 tempPic, 但是
newPic 的值却不等于这个地址。在上一步的时候, newPic 的值被替换成了一个中间格式。
    # print(self.newPic) # 这里可以看出, 此时 newPic 的值并不是 tempPic.png, 需要下一步:
    self.newPic = "pic\\tempPic.png"

```

```

self.pic = QtGui.QPixmap("pic\\tempPic.png")
self.picLabel.setPixmap(self.pic)

## 黑白:
def bnwPic(self):

    self.newPic=Image.open("pic\\tempPic.png")
    size = self.newPic.size
    bnwPic = Image.new('RGB', size)
    p_pic = self.newPic.load()
    p_bnwPic = bnwPic.load()

    for i in range(size[0]):
        for j in range(size[1]):
            # if p_pic[i, j][0] < 80 and p_pic[i, j][1] < 80 and p_pic[i, j][2] < 80:
            #     p_bnwPic[i, j] = (0, 0, 0)
            # elif p_pic[i, j][0] < 160 and p_pic[i, j][1] < 160 and p_pic[i, j][2] <
160:
            #     p_bnwPic[i, j] = (220, 220, 220)
            # else: p_bnwPic[i, j] = (255, 255, 255) # 这种其实也可以, 但是下面这个更加
细致一些。

            alpha=30
            if p_pic[i, j][0] < alpha and p_pic[i, j][1] < alpha and p_pic[i, j][2] <
alpha:
                p_bnwPic[i, j] = (0,0,0)
            elif p_pic[i, j][0] < alpha * 2 and p_pic[i, j][1] < alpha * 2 and p_pic[i,
j][2] < alpha * 2:
                p_bnwPic[i, j] = (10,10,10)
            elif p_pic[i, j][0] < alpha * 3 and p_pic[i, j][1] < alpha * 3 and p_pic[i,
j][2] < alpha * 3:
                p_bnwPic[i, j] = (20,20,20)
            elif p_pic[i, j][0] < alpha * 4 and p_pic[i, j][1] < alpha * 4 and p_pic[i,
j][2] < alpha * 4:
                p_bnwPic[i, j] = (180,180,180)
            elif p_pic[i, j][0] < alpha * 5 and p_pic[i, j][1] < alpha * 5 and p_pic[i,
j][2] < alpha * 5:
                p_bnwPic[i, j] = (200,200,200)
            elif p_pic[i, j][0] < 225 and p_pic[i, j][1] < (255 - alpha * 5) - 25 and
p_pic[i, j][2] < (
                255 - alpha * 5) - 25:
                p_bnwPic[i, j] = (220,220,220)
            else:
                p_bnwPic[i, j] = (255,255,255)
    bnwPic.save("pic\\tempPic.png")

```

```

self.newPic = "pic\\tempPic.png"
self.pic = QtGui.QPixmap("pic\\tempPic.png")
self.picLabel.setPixmap(self.pic)

```

熔岩魔鬼：

```

def fireGoastPic(self):
    self.newPic = Image.open("pic\\tempPic.png")
    size = self.newPic.size
    fireGoastPic = Image.new('RGB', size)
    p_pic = self.newPic.load()
    p_fireGoastPic = fireGoastPic.load()

    for i in range(size[0]):
        for j in range(size[1]):
            p_fireGoastPic[i, j] = p_pic[i, j][2] * 9
    fireGoastPic.save("pic\\tempPic.png")

    self.newPic = "pic\\tempPic.png"
    self.pic = QtGui.QPixmap("pic\\tempPic.png")
    self.picLabel.setPixmap(self.pic)

```

生成字符画：

```

def rgb_to_char(self, r, g, b, alpha=256):
    if alpha == 0:
        return ' '
    length = len(ascii_char)
    gray = int(0.2126 * r + 0.7152 * g + 0.0722 * b)

    unit = (256.0 + 1) / length
    return ascii_char[int(gray / unit)]

def createCodePic(self):
    img = Image.open("pic/tempPic.png")
    img = img.resize((120, 120))
    size = img.size
    width = size[0]
    height = size[1]
    pimg = img.load()

    txt = ""
    for i in range(height):

```

```

        for j in range(width):
            r = pimg[j, i][0]
            g = pimg[j, i][1]
            b = pimg[j, i][2]
            print("1")
            txt = txt + self.rgb_to_char(r, g, b, alpha=256)
            print("1111")
        txt = txt + "\n"
    print("2")
    txtAddress = QFileDialog.getSaveFileName(self, "选择一个路径把你的字符画收好！（以
txt 格式存储）", "C:/Magpic pictures",
                                           "Image files (*.txt);;all files (*.*)")

    if txtAddress[0]:
        print("3")
        txtpic = open(txtAddress[0], "w")
        txtpic.write(txt)
        txtpic.close()

def bigger(self):
    img = cv2.imread(self.newPic)
    res = cv2.resize(img, None, fx=1.5, fy=1.5, interpolation=cv2.INTER_CUBIC)
    cv2.imwrite("pic\\tempPic.png", res)
    # 在画面上展示一下效果:
    self.pic = QtGui.QPixmap("pic\\tempPic.png")
    self.picLabel.setPixmap(self.pic)
    self.newPic = "pic\\tempPic.png"

def smaller(self):
    img = cv2.imread(self.newPic)
    res = cv2.resize(img, None, fx=2/3, fy=2/3, interpolation=cv2.INTER_CUBIC)
    cv2.imwrite("pic\\tempPic.png", res)
    # 在画面上展示一下效果:
    self.pic = QtGui.QPixmap("pic\\tempPic.png")
    self.picLabel.setPixmap(self.pic)
    self.newPic = "pic\\tempPic.png"

def add(self):
    input=QInputDialog.getText(self, "请添加个性化水印！", "水印:", QLineEdit.Normal,
"Magpic")
    print(input[0])
    font = ImageFont.truetype("C:\\Windows\\Fonts\\Arial.ttf", 50)

    def add_text_to_image(image, text, font=font):
        rgba_image = image.convert('RGBA')

```

```

text_overlay = Image.new('RGBA', rgba_image.size, (255, 255, 255, 0))
image_draw = ImageDraw.Draw(text_overlay)

text_size_x, text_size_y = image_draw.textsize(text, font=font)
# 设置文本文字位置
print(rgba_image)
text_xy = (rgba_image.size[0] - text_size_x, rgba_image.size[1] - text_size_y)
# 设置文本颜色和透明度
image_draw.text(text_xy, text, font=font, fill=(185, 148, 106, 800))

image_with_text = Image.alpha_composite(rgba_image, text_overlay)

return image_with_text

im_before = Image.open(self.newPic)
im_after = add_text_to_image(im_before, input[0])
im_after.save("pic\\tempPic.png")
# 在画面上展示一下效果:
self.pic = QtGui.QPixmap("pic\\tempPic.png")
self.picLabel.setPixmap(self.pic)
self.newPic = "pic\\tempPic.png"

def emoji(self):
    print("asdfsdfdfasdfsadfasdfasdfs")
    hhaddress = QFileDialog.getOpenFileName(self, "请选择一个头像(☆▽☆)", "C:/")
    print("13123213231")
    if hhaddress[0]:
        getPic = Image.open(hhaddress[0])
        print("hahahahah")

        getPic2 = Image.open("pic\\k3.png")
        box = (200, 150, 420, 450)
        # mycrop = getPic.crop(box)
        # mycrop = mycrop.transpose(Image.ROTATE_180)
        # getPic.paste(mycrop, box)
        print("11")
        imenhancer_Brightness = ImageEnhance.Brightness(getPic)
        newPic1 = imenhancer_Brightness.enhance(2)
        print("22")
        imenhancer_Contrast = ImageEnhance.Contrast(newPic1)
        newPic1 = imenhancer_Contrast.enhance(6)
        print("33")
        newPic2 = newPic1.convert("L")
        region = newPic2

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print("44")
region = region.resize((box[2] - box[0], box[3] - box[1]))
getPic2.paste(region, box)
# 处理完之后, 保存为 tempPic.png:
getPic2.save("pic\\tempPic.png")
# 在画面上展示一下效果:
self.pic = QtGui.QPixmap("pic\\tempPic.png")
self.picLabel.setPixmap(self.pic)
self.newPic = "pic\\tempPic.png"

def compare(self):
    address = QFileDialog.getOpenFileNames(self, "请选择要比较的图片(*^__^*)(2张)",
"C:/")
    if address[0]:
        num = len(address[0]) # 因为这个 address 的第一项才存放的地址。
        print("有", num, "个文件被选出来了:")
        pic1=address[0][0]
        pic2=address[0][1]
        print(pic1,pic2)

# #-----
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getPic = Image.open(pic1)
getPic2 = Image.open(pic2)

def make_regalur_image(img, size=(256, 256)):
    return img.resize(size).convert('RGB')

def split_image(img, part_size=(64, 64)):
    w, h = img.size
    pw, ph = part_size

    assert w % pw == h % ph == 0
    return [img.crop((i, j, i + pw, j + ph)).copy() \
        for i in range(0, w, pw) \
        for j in range(0, h, ph)]

def hist_similar(lh, rh):
    assert len(lh) == len(rh)
    return sum(1 - (0 if l == r else float(abs(l - r)) / max(l, r)) for l, r in
zip(lh, rh)) / len(lh)

def calc_similar(li, ri):
    return sum(

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        hist_similar(l.histogram(), r.histogram())) for l, r in
zip(split_image(li), split_image(ri))) / 16.0

def calc_similar_by_path(lf, rf):
    li, ri = lf, rf
    return calc_similar(li, ri)

self.com = calc_similar_by_path(make_regalur_image(getPic),
make_regalur_image(getPic2))
# print(self.com)
print("2343321")

#
width = 350
height = 350
self.newPic = Image.new('RGB', (width * num, height))
print("hhhhhhhhhhhh")
for i in range(num):
    print(address[0][i])
    oriPic = Image.open(address[0][i]) # 导入每一张图片
    resizePic = oriPic.resize((width, height))

    self.newPic.paste(resizePic, (i * width, 0))
print("1111111")
self.newPic.resize((1000, 600)).save("pic\\tempPic.png")
print("2222222")
self.pic = QtGui.QPixmap("pic\\tempPic.png")
print("3333333")
self.picLabel.setPixmap(self.pic)
print("44444444")
self.newPic.save("pic\\tempPic.png")
self.newPic = "pic\\tempPic.png"
reply = QMessageBox.information(self, "相似度: ", "<b><font color=red>两张图片的
相似度是</font></b>" + str(' %.2f' % (self.com*100)) + "%",)

# 显示相似度:
def show_similarity(self, event):
    print("1")
    score=self.com
    print("2")
    reply = QMessageBox.question(self, "相似度: ", "<b><font color=red>两张图片的相似度
是</font></b>" + str(score),
                                QMessageBox.Yes | QMessageBox.No, QMessageBox.No)

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        if reply == QMessageBox.Yes:
            event.accept()
        if reply == QMessageBox.No:
            event.ignore()

#-----创建实例，展示窗口：-----
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qapp=QApplication(sys.argv)
app=Ui_MainWindow()
app.setStyleSheet('''
    QPushButton:hover{
        background-color:transparent;
        background-image:url(images/hover.png);}
    QMenu{
        font: bold 16px;
    }
    QPushButton{
        background-color:transparent;
        background-image:url(images/button_11.png);}
    font: bold 16px;

''')

app.show()
sys.exit(qapp.exec_())

# self.rotate_Button.setStyleSheet("QPushButton:hover{background-
color:transparent;background-image:url(images/button_02.png)}")

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