CTF二维码题（01转二维码）

原创

Hardworking666 于 2021-12-31 23:45:13 发布 356 收藏

分类专栏： CTF 文章标签： CTF 二维码 python misc

版权声明：本文为博主原创文章，遵循 CC 4.0 BY-SA 版权协议，转载请附上原文出处链接和本声明。

本文链接：https://blog.csdn.net/Hardworking666/article/details/122263643

版权

CTF 专栏收录该内容

21 篇文章 2 订阅

订阅专栏

一个二维码转换网站：

https://merricx.github.io/qrazybox/

打印01字符串的长度：

```
print(len(str))
```

CTF python 0 1转化为二维码：

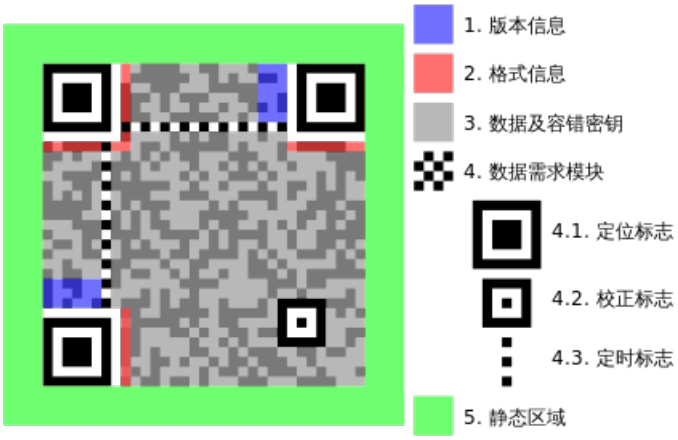
```
from PIL import Image
from zlib import *

MAX = 36 # 数字的长度为一个整数的平方（如36^2=1296）
pic = Image.new("RGB",(MAX,MAX))
str ="111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111000000011110010000000011000000011111011111111100110000100111111111011111010000011111110010010011000001011 1
110101111111010101100000011111010111110101000111010100100111010001010111111010100011011010101011111000101011111101
010001011001011101111100010101111111111111010101010000110111111111111111111111111101010110011000100111111110010 0
111001010011111111011011011111110000010101111010101100011111001111101010111101001000000110000111111111101110010 11
001100110011000000111111111111111111111110011101111110000111111100000000000000000000011011011101011111000101101101 11
101001111000010111111110001010111110100100011001010010111111010101010110010001100011011100011111011110100111101110
100001111000011111001010011110000000100010110100011111001001000011011000010000100111011111000101100011010111101 0
011011100111111100100011101100100010111111111111111111111101000101000001011111111111110101000111000011111111110 0
010101111101010001101111111111111000101011111010100010101001111111110001010111110101111101111111111111111111101
011111010000011010011111111111000001011111011111111111111111111111111111111111011111000000011001111111111111000000111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"

i=0
for y in range(0,MAX):
    for x in range(0,MAX):
        if(str[i] == '1'):
            pic.putpixel([x,y],(0,0,0))
        else:pic.putpixel([x,y],(255,255,255))
        i = i+1
pic.show()
pic.save("flag.png")
```

题目给出了一段全是01的数字串，且数字的长度为一个整数的平方（如25^2=625）时，有可能是以0、1表示黑或者白的一个像素，这样就可以生成一个正方形的像素图:

```
from PIL import Image
MAX = 25
pic = Image.new("RGB",(MAX, MAX))
str = "1111111000100001101111111100000101110010110100000110111010100000000010111011011110100100000000101110110111
0101110110100101110110000010101011101100000111111110101010101011111110000000010111011100000000011010011000001010
0111011011111010101001000011100000000000010100000000010010011010001001110011111011100111100001110111110001100101000 1
1001110000101010001101000111101011000001010001011000001101110110010000111001110010000101111111010000000011010100
1000111101111111011100001101011011100000100001100110001111010111010001101001111100001011101011000111010011100101
110100100111011011000110000010110001101000110001111111011010110111011011"
i=0
for y in range (0,MAX):
    for x in range (0,MAX):
        if(str[i] == '1'):
            pic.putpixel([x,y],(0, 0, 0))
        else:
            pic.putpixel([x,y],(255,255,255))
        i = i+1
pic.show()
pic.save("flag.png")``
```

运行代码后得到图片，因为只有625像素图片比较小。扫描二维码得到Flag

其他知识补充：

MISC多种题总结（上）
MISC多种题型总结（下篇）

记事本打开ctrl+H，0替换□，1替换■