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1  # 验证码生成库
2  from captcha.image import ImageCaptcha # pip install captcha
3  import numpy as np
4  from PIL import Image
5  import random
6  import sys
7
8  number = ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9']
9  alphabet =
    ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's'
    , 't', 'u', 'v', 'w', 'x', 'y', 'z']
10 ALPHABET = ['A', 'B', 'C', 'D']
11 captcha_dir = './captcha/'
12
13 def random_captcha_text(char_set=number+alphabet+ALPHABET, captcha_size=4):
14     # 验证码列表
15     captcha_text = []
16     for i in range(captcha_size):
17         # 随机选择
18         c = random.choice(char_set)
19         # 加入验证码列表
20         captcha_text.append(c)
21     return captcha_text
22
23
24 # 生成字符对应的验证码
25 def gen_captcha_text_and_image():
26     image = ImageCaptcha(
27         # 获得随机生成的验证码
28         captcha_text = random_captcha_text()
29         # 把验证码列表转为字符串
30         captcha_text = ''.join(captcha_text)
31         # 生成验证码
32         captcha = image.generate(captcha_text)
33         image.write(captcha_text, captcha_dir + captcha_text + '.jpg') # 写到文
    件
34
35
36 # 数量少于10000，因为重名
37 num = 10000
38 if __name__ == '__main__':
39     for i in range(num):
40         gen_captcha_text_and_image()
41         sys.stdout.write('\r>> Creating image %d/%d' % (i + 1, num))
42         sys.stdout.flush()
43     sys.stdout.write('\n')
44     sys.stdout.flush()
45
46     print("生成完毕")
47

```

