

(一) python自动发短信

实战训练项目

项目内容：

用Python发个短信提醒你的女朋友或者老婆，起床啦，或者热恋中的小两口，早上8:00跟她say hello,晚上10:00 跟她say 晚安

2.具体操作

1). 短信代理有很多，比如阿里云，腾讯云等等，但是基本都是0.045左右的价格，而且起步都是1千条开始卖，网上有很多其他free的短信代理，这里我们选择比较火的twilio,注册送15美金，可以发几百条，足够我们玩耍了。

2).登入链接：Twilio Cloud Communications - APIs for Voice, VoIP...输入一个邮箱，然后注册，填一个手机号，输入验证码就可以搞定了！

3).选择一门语言，twilio支持有很多机器人的语言，我们这里当然选择python,然后你会获得一个SID和Token 就是一串码，要验证你的身份

4).安装一个库

链接：GitHub - twilio/twilio-python: A Python module for...

github上有，大家直接安装pip install twilio即可

5).大概10行代码搞定 就可以发信息了

```
from twilio.rest import Client
```

```
account = "ACXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
```

```
token = "YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY"
```

```
client = Client(account, token)
```

```
message = client.messages.create(
```

```
to="+12316851234",
```


```
from_="+15555555555",
```

```
body="Hello there!")
```

6).利用datetime模块，定时发信息给你的老婆，或者gf

整个的代码量不会超过20行，非常有趣的例子，大家操练起来！

← → × <https://www.twilio.com>

 **twilio**

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Test Dashboard

Project Info

We've customized your dashboard based on the products you selected. Use the product getting started guides to get up and running.

We can't wait to see what you build!

PROJECT NAME	Test edit
ACCOUNT SID	AC0c1af9fa52bbc5471d9867431e2e2a
AUTH TOKEN	view
 Owner	 1 manage
	 2FA Disabled edit

步骤：

1.注册twilio帐号

官方地址：

www.twilio.com

python代码模板官方文档：

<https://www.twilio.com/docs/sms/quickstart/python>

2.添加一个号码（网站会自动分配号码）

The screenshot shows the Twilio console interface for managing phone numbers. The left sidebar contains a navigation menu with options: Home, Manage Numbers (selected), Released Numbers, Buy a Number, Verified Caller IDs, Port Requests, Use Your Number (Preview), Addresses, Documents, Tools, and Usage. The main content area is titled 'Active Numbers' and includes a '+ CLICK + TO BUY NEW NUMBER' button. Below this is a search bar with 'Number' and 'Voice URL' dropdowns, and a 'Filter' button. A table lists active numbers with columns: NUMBER, FRIENDLY NAME, CAPABILITIES, and CONFIGURATION. One number is listed: 'Warwick, RI'. The configuration for this number shows: Voice POST: https://demo.twilio.com/welcome/voice/ and Messaging POST: https://demo.twilio.com/welcome/sms/reply/. Below the table, there are several notes: '* Can send/receive calls to domestic numbers only', '† Can send/receive sms to domestic numbers only', '‡ This number does NOT support SIP Trunking', '(national) A non-geographic number', '(beta) This number is new to the Twilio Platform', and '(hosted) This number is hosted on the Twilio Platform'.

3.python环境安装

```
1. pip install twilio
```

4.编写代码

```
1. from twilio.rest import Client
2.
3. # my account sid and auth token
4. account_sid = ''
5. auth_token = ''
6. client = Client(account_sid, auth_token)
7.
8.
9. message = client.messages.create(
```

```
10.     body = "hello,FWJ",
11.     from_='',
12.     to=''
13. )
14.
15. print(message.sid)
```

5.设置定时发送（datetime模块）

官方文档

<https://docs.python.org/3.6/library/datetime.html>

构思：

用户输入定时时间（预约时间）

系统判断时间是否到达

对比

if

无限循环

while

预约时间代码运行成功，不过耗cpu

```
1. def reservetime():
2.     # 预约发送
3.     # days = input('')
4.     while 1:
5.         # 预约时间
6.         dt = datetime.strptime('2018-10-26 16:14:00', '%Y-%m-%d %H:%M:%
7.         S')
8.         # 当前时间
```

```
8.         dtnow = datetime.now()
9.
10.        b = (dt-dtnow).total_seconds()
11.        print(b)
12.        if b < 0:
13.            print('匹配成功')
14.            break
```

定时时间：

获取当前时间

别人代码：

1.函数

先构造一个函数，来发送短信

学习函数的使用

函数接口的设计，什么是关键字参数，默认参数

函数内部异常的处理

2.循环控制/逻辑处理

while ,for的处理

if else的使用

3.数据结构

字典的使用，如何遍历字典，如何读取字典，为啥要用get

4.异常的使用

如何使用异常进行捕获

5.模块的使用

比如time ,datetime日期模块的最简单的使用

```

from twilio.rest import Client
from datetime import datetime
import time

account_sid = 'AC0c1af[REDACTED]9867431e2e2aaa'
auth_token = 'ecd2fc161cbf[REDACTED]103c2f'

def send_sms(to,text,tw_mobile='+[REDACTED]674') :
    client=Client(account_sid, auth_token)
    try:
        message=client.messages.create(
                                body=text,
                                from_=tw_mobile,
                                to=to)
        print ('message status:',message.status)
        return True
    except Exception as e:
        print (e)
        return False

if __name__ == '__main__':
    greetings={'8':'早上好,该起床了','12':'中午好,该吃中饭啦',
              '15':'下午好,可以吃个水果','23':'晚上好,该睡觉啦'}

    print ('Script running!')
    while True:
        now=datetime.now()
        print ('time:',now)
        for key in greetings.keys():
            if now.hour==int(key):
                message=greetings.get(key,'This is a test message')
                res=send_sms(to='+861[REDACTED]62',text=message)
                if res:
                    print ('Message send ok at:',
                            datetime.strftime(now,'%Y-%m-%d %H:%M:%S'))
                    time.sleep(60*60)
                else:
                    print ('Message send failed!')

        time.sleep(5)

```