1.简介

在编写代码时，往往涉及时间、日期、时间戳的相互转换。

2.示例

# 引入模块import time, datetime

2.1 str类型的日期转换为时间戳

[IMG_256](javascript:void(0);)

1 # 字符类型的时间

2 tss1 = '2013-10-10 23:40:00'

3 # 转为时间数组

4 timeArray = time.strptime(tss1, "%Y-%m-%d %H:%M:%S")

5 print timeArray

6 # timeArray可以调用tm\_year等

7 print timeArray.tm\_year # 2013

8 # 转为时间戳

9 timeStamp = int(time.mktime(timeArray))

10 print timeStamp # 1381419600

11

12

13 # 结果如下

14 time.struct\_time(tm\_year=2013, tm\_mon=10, tm\_mday=10, tm\_hour=23, tm\_min=40, tm\_sec=0, tm\_wday=3, tm\_yday=283, tm\_isdst=-1)

15 2013

16 1381419600

[IMG_257](javascript:void(0);)

2.2 更改str类型日期的显示格式

[IMG_258](javascript:void(0);)

1 tss2 = "2013-10-10 23:40:00"

2 # 转为数组

3 timeArray = time.strptime(tss2, "%Y-%m-%d %H:%M:%S")

4 # 转为其它显示格式

5 otherStyleTime = time.strftime("%Y/%m/%d %H:%M:%S", timeArray)

6 print otherStyleTime # 2013/10/10 23:40:00

7

8 tss3 = "2013/10/10 23:40:00"

9 timeArray = time.strptime(tss3, "%Y/%m/%d %H:%M:%S")

10 otherStyleTime = time.strftime("%Y-%m-%d %H:%M:%S", timeArray)

11 print otherStyleTime # 2013-10-10 23:40:00

[IMG_259](javascript:void(0);)

2.3 时间戳转换为指定格式的日期

[IMG_260](javascript:void(0);)

# 使用time

timeStamp = 1381419600

timeArray = time.localtime(timeStamp)

otherStyleTime = time.strftime("%Y--%m--%d %H:%M:%S", timeArray)

print otherStyleTime # 2013--10--10 23:40:00

# 使用datetime

timeStamp = 1381419600

dateArray = datetime.datetime.utcfromtimestamp(timeStamp)

otherStyleTime = dateArray.strftime("%Y--%m--%d %H:%M:%S")

print otherStyleTime # 2013--10--10 15:40:00

[IMG_261](javascript:void(0);)

2.4 获取当前时间并且用指定格式显示

[IMG_262](javascript:void(0);)

1 # time获取当前时间戳

2 now = int(time.time()) # 1533952277

3 timeArray = time.localtime(now)

4 print timeArray

5 otherStyleTime = time.strftime("%Y--%m--%d %H:%M:%S", timeArray)

6 print otherStyleTime

7

8 # 结果如下

9 time.struct\_time(tm\_year=2018, tm\_mon=8, tm\_mday=11, tm\_hour=9, tm\_min=51, tm\_sec=17, tm\_wday=5, tm\_yday=223, tm\_isdst=0)

10 2018--08--11 09:51:17

11

12

13 # datetime获取当前时间，数组格式

14 now = datetime.datetime.now()

15 print now

16 otherStyleTime = now.strftime("%Y--%m--%d %H:%M:%S")

17 print otherStyleTime

18

19 # 结果如下：

20 2018-08-11 09:51:17.36298621 2018--08--11 09:51:17