

# datetime

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1 import time
2 from datetime import timedelta, date, time as t, datetime
3
4 # -----timedelta
5 y = timedelta(days=3)
6 print(f"y={}, {type(y)=}")
7 # y=datetime.timedelta(days=3), type(y)=<class 'datetime.timedelta'>
8 print(y)
9 # 3 days, 0:00:00
10
11 # -----date
12 # 日期对象
13 d1 = date.fromtimestamp(time.time())
14 print(f"d1={}, {type(d1)=}")
15 # d1=datetime.date(2022, 3, 12), type(d1)=<class 'datetime.date'>
16 d = y + d1
17 print(f"d={}, {type(d)=}")
18 d2 = date.today()
19 print(f"d2={}, {type(d2)=}")
20 # print(f"d2.year={}, {type(d2.year)=}")
21 #     f"d2.month={}, {type(d2.month)=}"
22 #     f"d2.day={}, {type(d2.day)=}"
23 # d1=datetime.date(2022, 3, 12), type(d1)=<class 'datetime.date'>
24 d3 = date.fromisoformat("2022-04-12")
25 print(f"d3={}, {type(d3)=}")
26 # d3=datetime.date(2022, 4, 12), type(d3)=<class 'datetime.date'>
27 print(f"{date.min=}, {type(date.min)=}")
28 d7 = date(2022, 5, 16).timetuple()
29 print(f"d7={}, {type(d7)=}")
30 # d7=time.struct_time(tm_year=2022, tm_mon=5, tm_mday=16, tm_hour=0,
    tm_min=0, tm_sec=0, tm_wday=0, tm_yday=136, tm_isdst=-1), type(d7)=<class
    'time.struct_time'>
31 d8 = date(2022, 5, 16).replace(2025)
32 print(f"d8={}, {type(d8)=}")
33 # d8=datetime.date(2025, 5, 16), type(d8)=<class 'datetime.date'>
34
35 # 日期字符串
36 d4 = date(2022, 5, 16).ctime()
37 print(f"d4={}, {type(d4)=}")
38 # d4='Mon May 16 00:00:00 2022', type(d4)=<class 'str'>
39 d5 = date(2022, 5, 16).strftime("%Y,%m,%d")
40 print(f"d5={}, {type(d5)=}")
41 # d5='2022,05,16', type(d5)=<class 'str'>
42 d6 = date(2022, 5, 16).isoformat()
43 print(f"d6={}, {type(d6)=}")
44 # d6='2022-05-16', type(d6)=<class 'str'>
45
46 # -----datetime
47 # 日期时间对象
48 dt1 = datetime.today()
49 print(f"dt1={}, {type(dt1)=}")
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```
50 # dt1=datetime.datetime(2022, 3, 13, 9, 30, 22, 113951), type(dt1)=<class
    'datetime.datetime'>
51 dt2 = datetime.now()
52 print(f"{dt2=}, {type(dt2)=}")
53 # dt2=datetime.datetime(2022, 3, 13, 9, 30, 22, 113951), type(dt1)=<class
    'datetime.datetime'>
54 dt3 = datetime.fromtimestamp(time.time())
55 print(f"{dt3=}, {type(dt3)=}")
56 # dt3=datetime.datetime(2022, 3, 13, 9, 34, 37, 333077), type(dt3)=<class
    'datetime.datetime'>
57 dt4 = datetime.utcfromtimestamp(time.time())
58 print(f"{dt4=}, {type(dt4)=}")
59 # dt4=datetime.datetime(2022, 3, 13, 1, 35, 36, 318019), type(dt4)=<class
    'datetime.datetime'>
60 dt5 = datetime.strptime("2023/02/10", "%Y/%m/%d")
61 print(f"{dt5=}, {type(dt5)=}")
62 # dt5=datetime.datetime(2023, 2, 10, 0, 0), type(dt5)=<class
    'datetime.datetime'>
63
64 # 日期时间字符串
65 dt6 = dt1.strftime("%Y/%m/%d %H:%M:%S")
66 print(f"{dt6=}, {type(dt6)=}")
67 # dt6='2022/03/13 09:43:31', type(dt6)=<class 'str'>
68 dt7 = dt1.strftime("%Y/%m/%d")
69 print(f"{dt7=}, {type(dt7)=}")
70 # dt7='2022/03/13', type(dt7)=<class 'str'>
71
```