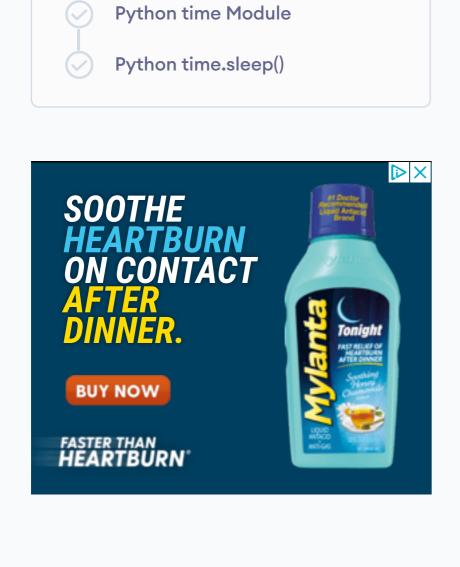
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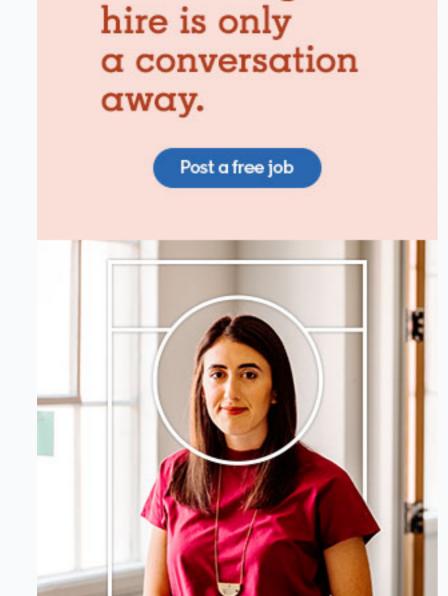


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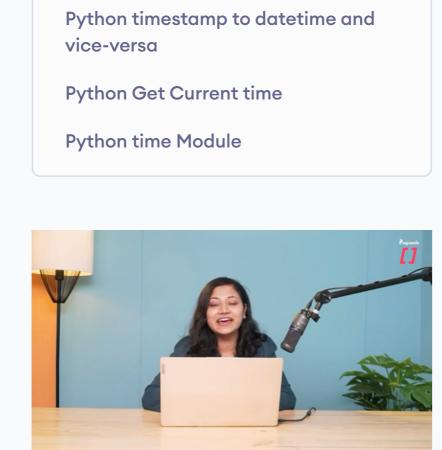


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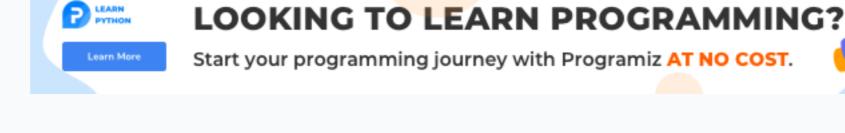
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How to get current date and time in





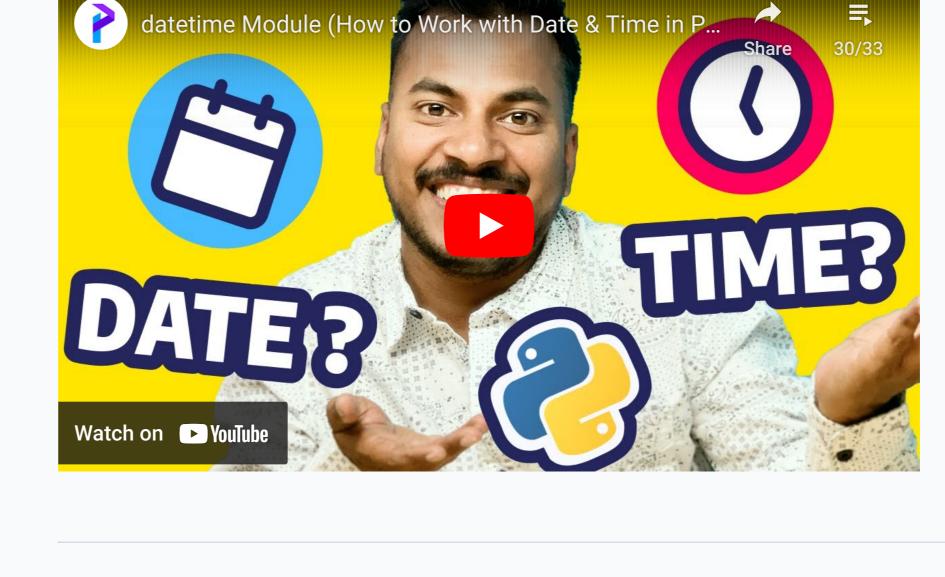
Python strftime()

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In this article, you will learn to convert date, time and datetime objects to its equivalent string (with the help of examples)

Video: Dates and Times in Python

datetime object.



Example 1: datetime to string using strftime()

The program below converts a datetime object containing current date and time to

The strftime() method returns a string representing date and time using date, time or

different string formats.

now = datetime.now() # current date and time

from datetime import datetime

```
year = now.strftime("%Y")
 print("year:", year)
 month = now.strftime("%m")
 print("month:", month)
 day = now.strftime("%d")
 print("day:", day)
 time = now.strftime("%H:%M:%S")
 print("time:", time)
 date_time = now.strftime("%m/%d/%Y, %H:%M:%S")
 print("date and time:",date_time)
When you run the program, the output will something like be:
```

```
year: 2018
 month: 12
 day: 24
 time: 04:59:31
 date and time: 12/24/2018, 04:59:31
Here, year, day, time and date_time are strings, whereas now is a datetime object.
```

In the above program, [%Y], [%m], [%d] etc. are format codes. The [strftime()] method takes one or more format codes as an argument and returns a formatted string based on it.

1. We imported datetime class from the datetime module. It's because the object of

datetime class can access strftime() method.

codes.

timestamp = 1528797322

Output 3: 12 Jun, 2018 Output 4: 12 June, 2018

Format Code List

Directive

%A

%w

Output 5: 09AM

How strftime() works?

Importing datetime class

from datetime module.

Datetime object containing

Contains formatted string.

Format code. %Y formats

12/24/2018, 04:59:31

to year.

current date and time.

from datetime import datetime

2. The datetime object containing current date and time is stored in now variable.

now = datetime.now() 3. The strftime() method can be used to create formatted strings.

date_time = now.strftime("%m/%d/%Y, %H:%M:%S")

4. The string you pass to the strftime() method may contain more than one format

year = now.strftime("%Y")

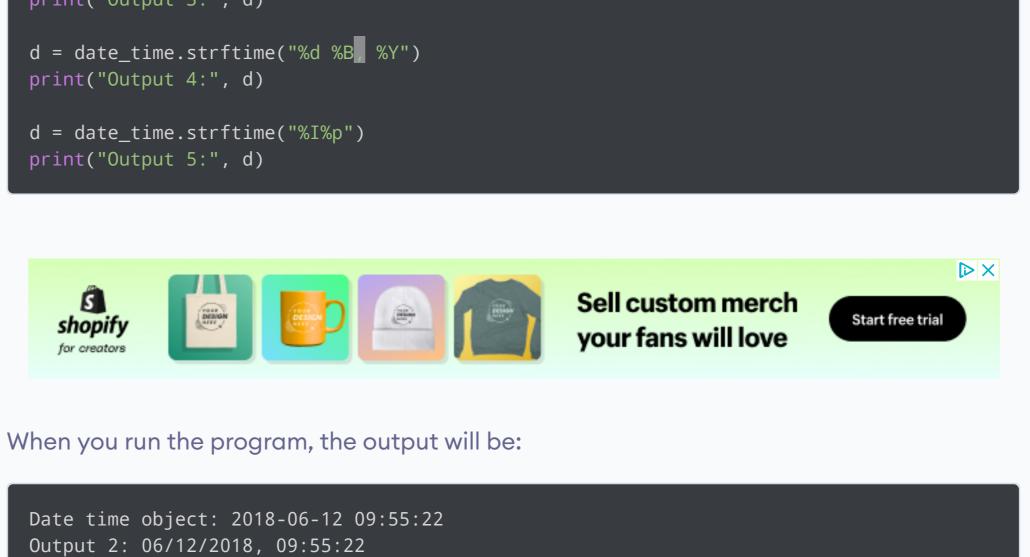
Example 2: Creating string from a timestamp from datetime import datetime

print("Output 2:", d) d = date_time.strftime("%d %b, %Y") print("Output 3:", d)

date_time = datetime.fromtimestamp(timestamp)

d = date_time.strftime("%m/%d/%Y, %H:%M:%S")

print("Date time object:", date_time)



%a Abbreviated weekday name.

Full weekday name.

Weekday as a decimal number.

Meaning

01, 02, ..., Day of the month as a zero-padded decimal. %d 31 %-d Day of the month as a decimal number. 1, 2, ..., 30

The table below shows all the codes that you can pass to the strftime() method.

Example

Sun,

Mon, ...

Sunday,

Monday,

0, 1, ..., 6

Jan, Feb,

| %b | Abbreviated month name. | Jan, Feb, , Dec |
|------------|--|-----------------------------------|
| %B | Full month name. | January, February, |
| %m | Month as a zero-padded decimal number. | 01, 02,, 12 |
| %-m | Month as a decimal number. | 1, 2,, 12 |
| %y | Year without century as a zero-padded decimal number. | 00, 01,, 99 |
| %-y | Year without century as a decimal number. | 0, 1,, 99 |
| %Y | Year with century as a decimal number. | 2013, 2019 etc. |
| %H | Hour (24-hour clock) as a zero-padded decimal number. | 00, 01,, 23 |
| %-H | Hour (24-hour clock) as a decimal number. | 0, 1,, 23 |
| %I | Hour (12-hour clock) as a zero-padded decimal number. | 01, 02,, 12 |
| %-I | Hour (12-hour clock) as a decimal number. | 1, 2, 12 |
| %p | Locale's AM or PM. | AM, PM |
| %M | Minute as a zero-padded decimal number. | 00, 01,, 59 |
| %-M | Minute as a decimal number. | 0, 1,, 59 |
| %S | Second as a zero-padded decimal number. | 00, 01,, 59 |
| %-S | Second as a decimal number. | 0, 1,, 59 |
| %f | Microsecond as a decimal number, zero-padded on the left. | 000000 - 999999 |
| %z | UTC offset in the form +HHMM or -HHMM. | |
| %Z | Time zone name. | |
| % j | Day of the year as a zero-padded decimal number. | 001, 002, , 366 |
| %-j | Day of the year as a decimal number. | 1, 2,, 366 |
| %U | Week number of the year (Sunday as the first day of the week). All days in a new year preceding the first Sunday are considered to be in week 0. | 00, 01,, 53 |
| %W | Week number of the year (Monday as the first day of the week). All days in a new year preceding the first Monday are considered to be in week 0. | 00, 01,, 53 |
| %C | Locale's appropriate date and time representation. | Mon Sep 30 07:06:05 2013 |
| %x | Locale's appropriate date representation. | 09/30/13 |
| %X | Locale's appropriate time representation. | 07:06:05 |
| | A literal '%' character. | % |

Output 2: 06/12/18 Output 3: 09:55:22 Format codes %c, %x and %X are used for locale's appropriate date and time

When you run the program, the output will be:

Output 1: Tue Jun 12 09:55:22 2018

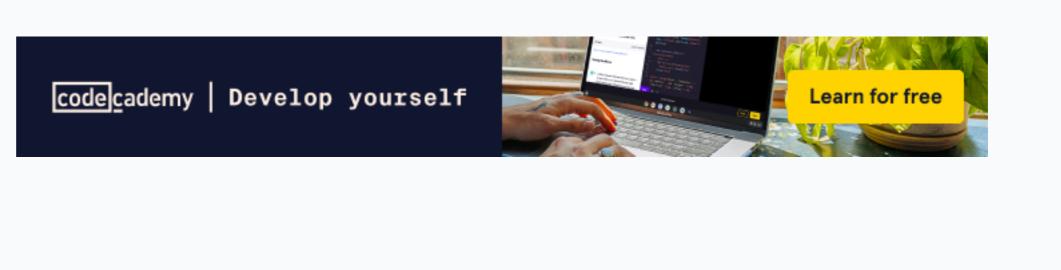
datetime object from a string.

representation.

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We also recommend you to check Python strptime(). The strptime() method creates a





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