



# How to convert datetime to date in Python

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In this article, we are going to see how to convert DateTime to date in Python. For this, we will use the `strptime()` method and Pandas module. This method is used to create a DateTime object from a string. Then we will extract the date from the DateTime object using the **`date()` function** and **`dt.date from Pandas`** in [Python](#).

## Method 1: Convert DateTime to date in Python using DateTime

Classes for working with date and time are provided by the [Python Datetime](#) module. Numerous capabilities to deal with dates, times, and time intervals are provided by these classes. Python treats date and DateTime as objects, so when you work with them, you're really working with objects rather than strings or timestamps.

### Syntax of `strptime()`

**Syntax:** [`datetime.strptime\(\)`](#)

**Parameters:**

- **arg:** It can be integer, float, tuple, Series, Dataframe to convert into datetime as its datatype
- **format:** This will be str, but the default is None. The strftime to parse time, eg "%d/%m/%Y", note that "%f" will parse all the way up to nanoseconds.

## Example 1: Convert DateTime to date

In this example, We have created a datetime\_str which is **"24AUG2001101010"**, and its format is **"%d%b%Y%H%M%S"**.

## Python3

```
# import important module
import datetime
from datetime import datetime

# Create datetime string
datetime_str = "24AUG2001101010"
print("datetime string : {}".format(datetime_str))

# call datetime.strptime to convert
# it into datetime datatype
datetime_obj = datetime.strptime(datetime_str,
                                "%d%b%Y%H%M%S")

# It will print the datetime object
print(datetime_obj)

# extract the time from datetime_obj
date = datetime_obj.date()
print(date)
```

## Output:

```
datetime string : 24AUG2001101010
```

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## Example 2: Convert DateTime with a numeric date.

In this example, We have created a datetime\_str which is **"100201095407"**, and its format is **"%d%m%y%H%M%S"**.

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### Python3

```
# import important module
import datetime
from datetime import datetime

# Create datetime string
datetime_str = "100201095407"
print("datetime string : {}".format(datetime_str))

# call datetime.strptime to convert
# it into datetime datatype
datetime_obj = datetime.strptime(datetime_str,
                                  "%d%m%y%H%M%S")

# It will print the datetime object
print(datetime_obj)

# extract the time from datetime_obj
date = datetime_obj.date()

# it will print date that we have
# extracted from datetime obj
print(date)
```

### Output:

```
datetime string : 100201095407
2001-02-10 09:54:07
2001-02-10
```

## Example 3: Convert DateTime with the current date.

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## Python3

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```
from datetime import datetime

# call datetime.strptime to
# convert it into datetime datatype
datetime_obj = datetime.now()

# It will print the datetime object
print(datetime_obj)

# extract the time from datetime_obj
date = datetime_obj.date()
print(date)
```

### Output:

```
2021-08-07 06:30:20.227879
2021-08-07
```

## Method 2: Convert DateTime to date in Python using Pandas

Pandas provide a different set of tools using which we can perform all the necessary tasks on date-time data. Let's try to understand with the examples discussed below.

### Example:

The date value and the DateTime value are both displayed in the output using the print command. The DateTime values are first added to a column of a [Pandas DataFrame](#). The DateTime value is then converted to a date value using the [dt.date\(\) function](#).

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## Python3

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```
df['time'] = pd.to_datetime(df['time']).dt.date  
print(df)
```

## Output:

```
           time  
0  2022-7-16 11:05:00  
1  2025-7-18 12:00:30
```

```
           time  
0  2022-07-16  
1  2025-07-18
```

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