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# Python Datetime

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### Python Dates

A date in Python is not a data type of its own, but we can import a module named datetime to work with dates as date objects.

#### Example

Get your own Python Server

Import the datetime module and display the current date:

```
import datetime

x = datetime.datetime.now()
print(x)
```

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### **Date Output**

When we execute the code from the example above the result will be:

```
2023-04-12 13:53:22.233438
```

The date contains year, month, day, hour, minute, second, and microsecond

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Here are a few examples, you will learn more about them later in this chapter:

### Example

Return the year and name of weekday:

```
import datetime

x = datetime.datetime.now()

print(x.year)
print(x.strftime("%A"))
```

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## **Creating Date Objects**

To create a date, we can use the datetime() class (constructor) of the datetime
module.

The datetime() class requires three parameters to create a date: year, month, day.

#### Example

Create a date object:

```
import datetime

x = datetime.datetime(2020, 5, 17)

print(x)
```

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for timezone).

### The strftime() Method

The datetime object has a method for formatting date objects into readable strings.

The method is called strftime(), and takes one parameter, format, to specify the format of the returned string:

### Example

Display the name of the month:

```
import datetime

x = datetime.datetime(2018, 6, 1)

print(x.strftime("%B"))
```

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A reference of all the legal format codes:

| Directive | Description                             | Example   | Try it    |
|-----------|---|-----------|-----------|
| %a        | Weekday, short version                  | Wed       | Try it »  |
| %A        | Weekday, full version                   | Wednesday | Try it »  |
| %w        | Weekday as a number 0-6,<br>0 is Sunday | 3         | Try it »  |
| %d        | Day of month 01-31                      | 31        | Try it »  |
| %b        | Month name, short version               | Dec       | Dark mode |





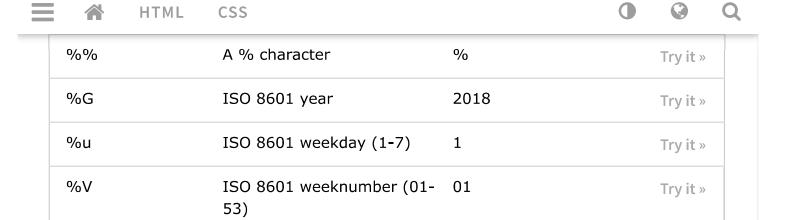
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| %B | Month name, full version  | December                    | Try it » |
|----|---|-----------------------------|----------|
| %m | Month as a number 01-12   | 12                          | Try it » |
| %y | Year, short version, without century                              | 18                          | Try it » |
| %Y | Year, full version  | 2018                        | Try it » |
| %Н | Hour 00-23  | 17                          | Try it » |
| %I | Hour 00-12  | 05                          | Try it » |
| %p | AM/PM   | PM                          | Try it » |
| %M | Minute 00-59  | 41                          | Try it » |
| %S | Second 00-59  | 08                          | Try it » |
| %f | Microsecond 000000-<br>999999                                     | 548513                      | Try it » |
| %z | UTC offset  | +0100                       |          |
| %Z | Timezone  | CST                         |          |
| %j | Day number of year 001-<br>366                                    | 365                         | Try it » |
| %U | Week number of year,<br>Sunday as the first day of<br>week, 00-53 | 52                          | Try it » |
| %W | Week number of year,<br>Monday as the first day of<br>week, 00-53 | 52                          | Try it » |
| %с | Local version of date and time                                    | Mon Dec 31 17:41:00<br>2018 | Try it » |
| %C | Century   | 20                          | Try it » |
| %x | Local version of date   | 12/31/18                    | Dark mod |



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