

Python Walkthrough

# Using Datetimes in Python3

with Mike Dane



`code`cademy

## Key Concepts

This video will cover the following key concepts:

- Datetime module
- `strptime()`
- `strftime()`

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```
code.py  Untitled-1  ...  TERMINAL  ...  1: Python  +  -  x

1 - Importing the `datetime` module
2
3 - Creating a date using
4   year, month, day as arguments.
5
6 - Creating a date using
7   datetime.now()
8
9 - Parsing a date using.strptime
10
11 - Rendering a date as a string
12   using strftime

>>> from datetime import datetime
>>>
>>> birthday = datetime(1994, 2, 15, 4, 25, 12)
>>>
>>> birthday.year
1994
>>> birthday.month
2
>>> birthday.dat
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'datetime.datetime' object has no attribute 'dat'
>>> birthday.day
15
>>> birthday.hour
4
>>> birthday.weekday()
1
>>> 
```

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>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 40, 332982)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 45, 672004)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 46, 290918)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 48, 92246)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 48, 823863)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 49, 561686)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 50, 215015)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 10, 50, 901754)
>>> datetime.now()
datetime.datetime(2018, 11, 15, 19, 11, 0, 277342)
>>> 
```

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>>> datetime(2018, 1, 1) - datetime(2017, 1, 1)
datetime.timedelta(days=365)
>>> 
```

TO PARSE A DATE OUT OF A STRING:

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>>> parsed_date = datetime.strptime('Jan 15, 2018', '%b %d, %Y')
>>> parsed_date.month
1
>>> parsed_date.year
2018
>>> parsed_date = datetime.strptime('Jul 04, 2011', '%b %d, %Y')
>>> parsed_date.year
2011
>>> parsed_date.month
7
>>>
```

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>>> date_string = datetime.strftime(datetime.now(), '%b %d, %Y')
>>> date_string
'Nov 15, 2018'
>>>
```