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PAID COURSE

# Importing Data in Python (Part 2)

Replay Course

2 hours | 7 Videos | 29 Exercises | 8,200 Participants | 2400 XP

STATEMENT OF ACCOMPLISHMENT

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This course is part of these tracks:

**Data Analyst with Python**

**Data Scientist with Python**

**Importing & Cleaning Data with Python**

**Python Developer**

**Hugo Bowne-Anderson**
Data Scientist at DataCamp

Hugo hearts all things Pythonic and is charged with building out DataCamp's Python curriculum. He can be found at hackathons, meetups & code sprints, primarily in NYC. Before joining the ranks of

DataCamp, he worked in applied mathematics (biology) research at Yale University.

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**COLLABORATOR(S)**

**Francisco Castro**

**PREREQUISITES**

- Intro to Python for Data Science
- Intermediate Python for Data Science
- Importing Data in Python (Part 1)

**DATASETS**

- Latitudes (XLS)
- Tweets
- Red wine quality

## Course Description

As a Data Scientist, on a daily basis you will need to clean data, wrangle and munge it, visualize it, build predictive models and interpret these models. Before doing any of these, however, you will need to know how to get data into Python. In the prequel to this course, you have already learnt many ways to import data into Python: (i) from flat files such as .txts and .csvs; (ii) from files native to other software such as Excel spreadsheets, Stata, SAS and MATLAB files; (iii) from relational databases such as SQLite & PostgreSQL. In this course, you'll extend this knowledge base by learning to import data (i) from the web and (ii) a special and essential case of this: pulling data from Application Programming Interfaces, also known as APIs, such as the Twitter streaming API, which allows us to stream real-time tweets.

### 1 Importing data from the Internet FREE 100%

The web is a rich source of data from which you can extract various types of insights and findings. In this chapter, you will learn how to get data from the web, whether it be stored in files or in HTML. You'll also learn the basics of scraping and parsing web data.

**Importing flat files from the web** 50 xp

| | |
|---|---|
| Importing flat files from the web: your turn! | 100 xp |
| Opening and reading flat files from the web | 100 xp |
| Importing non-flat files from the web | 100 xp |
| HTTP requests to import files from the web | 50 xp |
| Performing HTTP requests in Python using urllib | 100 xp |
| Printing HTTP request results in Python using urllib | 100 xp |
| Performing HTTP requests in Python using requests | 100 xp |
| Scraping the web in Python | 50 xp |
| Parsing HTML with BeautifulSoup | 100 xp |
| Turning a webpage into data using BeautifulSoup: getting the text | 100 xp |
| Turning a webpage into data using BeautifulSoup: getting the hyperlinks | 100 xp |

HIDE CHAPTER DETAILS Completed

## 2 Interacting with APIs to import data from the web 100%

In this chapter, you will push further on your knowledge of importing data from the web. You will learn the basics of extracting data from APIs, gain insight on the importance of APIs and practice getting data from them with dives into the OMDB and Library of Congress APIs.

| | |
|---|---|
| Introduction to APIs and JSONs | 50 xp |
| Pop quiz: What exactly is a JSON? | 50 xp |
| Loading and exploring a JSON | 100 xp |
| Pop quiz: Exploring your JSON | 50 xp |
| APIs and interacting with the world wide web | 50 xp |
| Pop quiz: What's an API? | 50 xp |

| | |
|---|---|
| API requests | 100 xp |
| JSON–from the web to Python | 100 xp |
| Checking out the Wikipedia API | 100 xp |

HIDE CHAPTER DETAILS Completed

## 3 Diving deep into the Twitter API 100%

In this chapter, you will consolidate your knowledge of interacting with APIs in a deep dive into the Twitter streaming API. You'll learn how to stream real-time Twitter data and to analyze and visualize it!

| | |
|---|---|
| The Twitter API and Authentication | 50 xp |
| API Authentication | 100 xp |
| Streaming tweets | 100 xp |
| Load and explore your Twitter data | 100 xp |
| Twitter data to DataFrame | 100 xp |
| A little bit of Twitter text analysis | 100 xp |
| Plotting your Twitter data | 100 xp |
| Final Thoughts | 50 xp |

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