# Pandas

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| Pandas is a powerful and flexible Python package that allows you to work with labeled and time series data. It also provides statistics methods, enables plotting, and more. One crucial feature of Pandas is its ability to write and read Excel, CSV, and many other types of files. | functions like the Pandas read\_csv() method enable you to work with files effectively. You can use them to save the data and labels from Pandas objects to a file and load them later as Pandas Series or DataFrame instances. |
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## **Reading and Writing Files with Pandas**

4 Lessons 10m

[1. Reading and Writing Files With Pandas (Overview)](https://realpython.com/lessons/read-write-files-pandas-overview/) 01:01

[2. Installing Pandas and Preparing Data](https://realpython.com/lessons/install-pandas-prep-data/) 04:00

[3. Reading and Writing CSV Files](https://realpython.com/lessons/read-write-csv-files/) 02:21

[4. Reading and Writing Excel Files](https://realpython.com/lessons/read-write-excel-files/) 02:59

## **Working With Different File Types**

8 Lessons 26m

[1. Working With Different File Types Introduction](https://realpython.com/lessons/work-different-file-types-intro/) 00:32

[2. Understanding the Pandas IO API](https://realpython.com/lessons/understand-pandas-io-api/) 02:09

[3. Working With CSV Files](https://realpython.com/lessons/working-with-csv-files/) 06:42

[4. Working With JSON Files](https://realpython.com/lessons/working-with-json-files/) 05:35

[5. Working With HTML Files](https://realpython.com/lessons/working-with-html-files/) 02:40

[6. Working With Excel Files](https://realpython.com/lessons/working-with-excel-files/) 02:32

[7. Working With SQL](https://realpython.com/lessons/working-with-sql/) 04:38

[8. Working With Pickle Files](https://realpython.com/lessons/working-with-pickle-files/) 01:42

## **Working With Big Data**

7 Lessons 12m

[1. Working With Big Data Introduction](https://realpython.com/lessons/work-with-big-data-intro/) 00:33

[2. Using Compression](https://realpython.com/lessons/using-compression/) 02:00

[3. Choosing Columns](https://realpython.com/lessons/choosing-columns/) 01:47

[4. Omitting Rows](https://realpython.com/lessons/omitting-rows/) 01:54

[5. Forcing Lower Precision](https://realpython.com/lessons/forcing-lower-precission/) 03:13

[6. Using Chunks](https://realpython.com/lessons/using-chunks/) 02:02

[7. Reading and Writing Files With Pandas (Summary)](https://realpython.com/lessons/read-write-files-pandas-summary/) 01:16

# References

[Combining Data in Pandas With merge(), .join(), and concat()](https://realpython.com/pandas-merge-join-and-concat/?utm_source=notification_summary&utm_medium=email&utm_campaign=2022-04-26)