

# Python & pandas

A one day course

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`github.com/UweZiegenhagen/OneDayPythonPandasCourse`

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# Introduction

# Why Python/pandas?

- ▶ You *have* a CSV-file with semicolon as column separator and comma as decimal separator
- ▶ You *need* a CSV-file with comma as column separator and dot as decimal separator

```
1 import pandas as pd
2
3 df = pd.read_csv('myfile.csv', sep=';', decimal = ',')
4 df = pd.to_csv('myfile.csv', sep=',', decimal = '.')
```

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Links

# Python

- ▶ Invented by Guido van Rossum at the „Centrum Wiskunde & Informatica“ in Amsterdam as successor for the teaching language ABC
- ▶ Current version is 3.11
- ▶ For a long time, Python 3.x and Python 2.7 existed together
- ▶ Python 2.7 support expired in 2019:
- ▶ How to spot 2.7 code → `print 'hello'` instead of `print('hello')`

# pandas

- ▶ A Python library for data wrangling and management
- ▶ Invented by Wes McKinney during his time at AQR Capital Management
- ▶ In his own words: „I tell them that it enables people to analyze and work with data who are not expert computer scientists,” he says. „You still have to write code, but it’s making the code intuitive and accessible. It helps people move beyond just using Excel for data analysis.”<sup>1</sup>

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<sup>1</sup>[qz.com/1126615/](http://qz.com/1126615/)

Python





pandas

## Links

## Links

- ▶ [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/10min.html](https://pandas.pydata.org/pandas-docs/stable/user_guide/10min.html)
- ▶ <https://pandas.pydata.org>
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