

Python for Beginners 2 (PYFUN2)

ID PYFUN2 Price CHF 1,490.—(excl. VAT) Duration 2 days

Prerequisites

[Python for Beginners 1 \(PYFUN1\)](#) or equivalent knowledge

- Extracting and cleaning data
- Handling errors and edge cases

6. Final Project

Course Content

1. Advanced Strings & Data Structures

- String formatting: f-strings, .format(), %
- String methods: split, join, replace, find, etc.
- Nested structures: lists of dicts, dicts of lists
- List, dict, and set comprehensions
- Conditional expressions
- Lambda functions with map, filter, reduce

2. File Handling

- Opening and reading files (open, read, readlines)
- Writing to files (write, writelines)
- Using with open(...) and context managers
- Handling encoding and file errors
- Working with JSON: json.load(), json.dump()
- Reading and writing CSV: csv.reader(), csv.DictWriter()
- Real-world examples: config files, data export

3. Iterators & Generators and decorators

- iter() and next()
- Generator functions using yield
- Generator expressions
- Custom iterable objects
- Functions as objects
- Writing decorators
- Use cases: logging, timing, access control

4. Object-Oriented Programming (OOP)

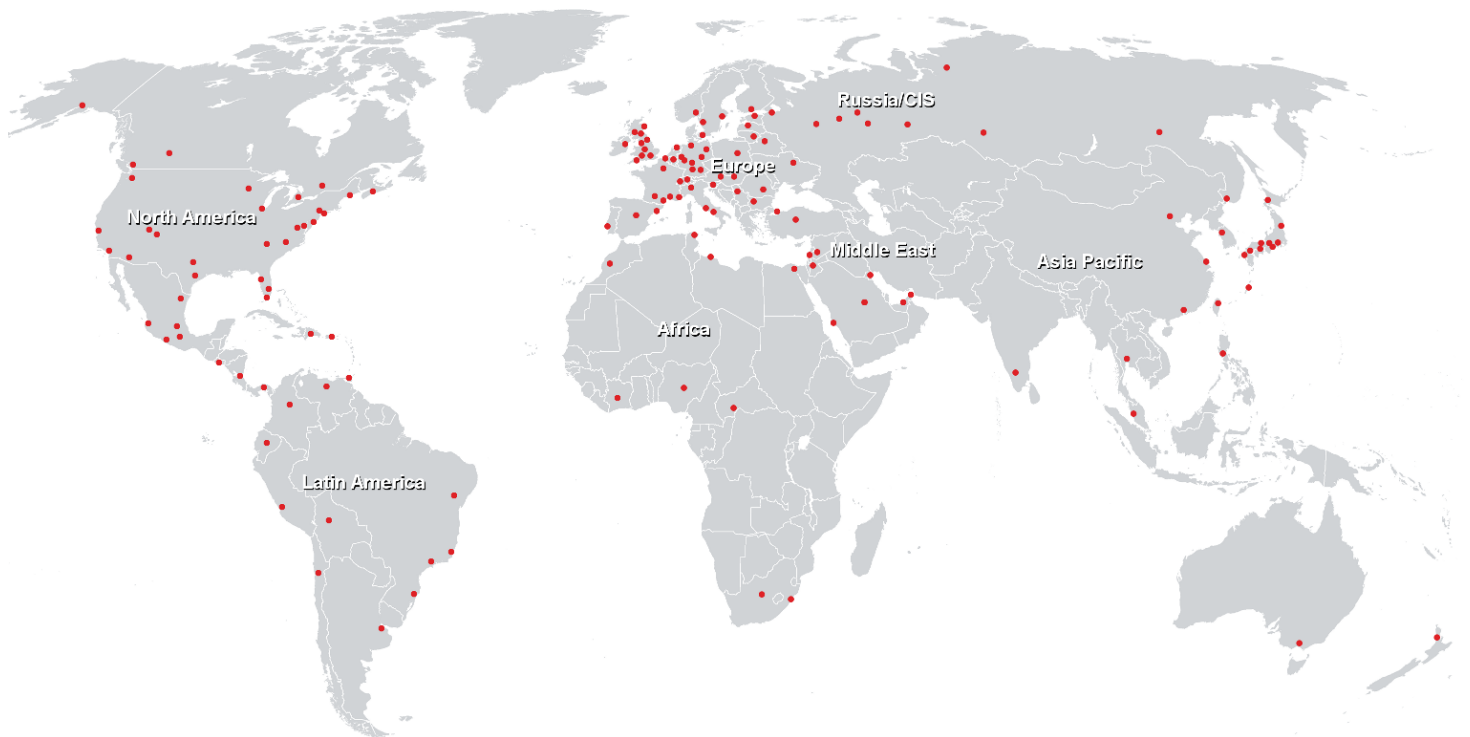
- Classes and objects
- Attributes and methods
- Inheritance and polymorphism
- Magic methods: __init__, __str__, etc.

5. Web Scraping

- Using requests to fetch web pages
- Parsing HTML with BeautifulSoup

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Training Centres worldwide



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