



Introduction to Python Programming

Instructors

Can Umay

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Language

Course (Turkish)

Slides (English)

Exercises (Turkish)

Syllable

Stanford University CS41

Course Overview

This "Introduction to Python Programming" course leads the students from the basics of writing and running Python scripts to more advanced features such as file operations, functions, working with iterators, and generators.

Prerequisites

No programming knowledge is required.

Course Materials

- Computer
- Paper, Pen for exams and take note.

About Syllable

Course slides (not edited versions) reachable at <https://stanfordpython.com>

Important note: We have permission to use "Stanford University CS 41" slides from Sam Redmond (Instructor at Stanford)

Course Schedule

Day	Instructor	Sections (provided below)
Day 1	Can Umay	Section 1, Section 2
Day 2	Can Umay	Section 3, Section 4
Day 3	Burak Dönmez	Section 5
Day 4	Burak Dönmez	Section 6

Course Sections

***May vary due to circumstances.*

Section 1

- What is Python?
- Why Python?
- Will Python help me to get a job?
- Brief history of Python
- Who uses Python?
- Python Installation
- Interactive Interpreter
- Comments
- Variables
- Numbers and Math

Section 2

- Booleans
- Strings
- Indexing
- Slicing
- Type conversion
- Basic Lists
- Inspecting List Elements
- Nested Lists

Section 3

- General Queries
- Console I/O
- If Statements
- Elif and else
- For Loops
- Range
- Break and continue
- While loops

Section 4

- Basic Functions
- String Methods
- String Formatting
- File Operations

Section 5

- Advanced Lists
- Dictionaries
- Tuples
- Sets
- Comprehensions

Section 6

- Advanced Functions
- Local Function Scope
- Default Parameters
- Keyword Arguments
- Variadic Positional Arguments
- Lambda Functions
- Iterators
- Generators
- Decorators

Exercises

We will solve exercises during the course to get a better understanding of the topics.

Exam

***May vary due to circumstances.*

At the end of the course, you will take an exam to get a certificate.