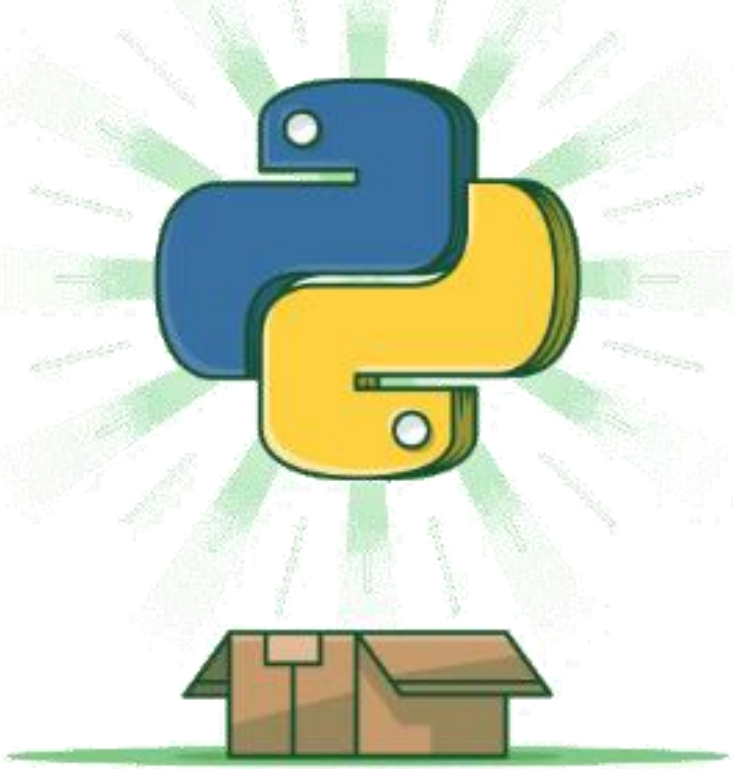
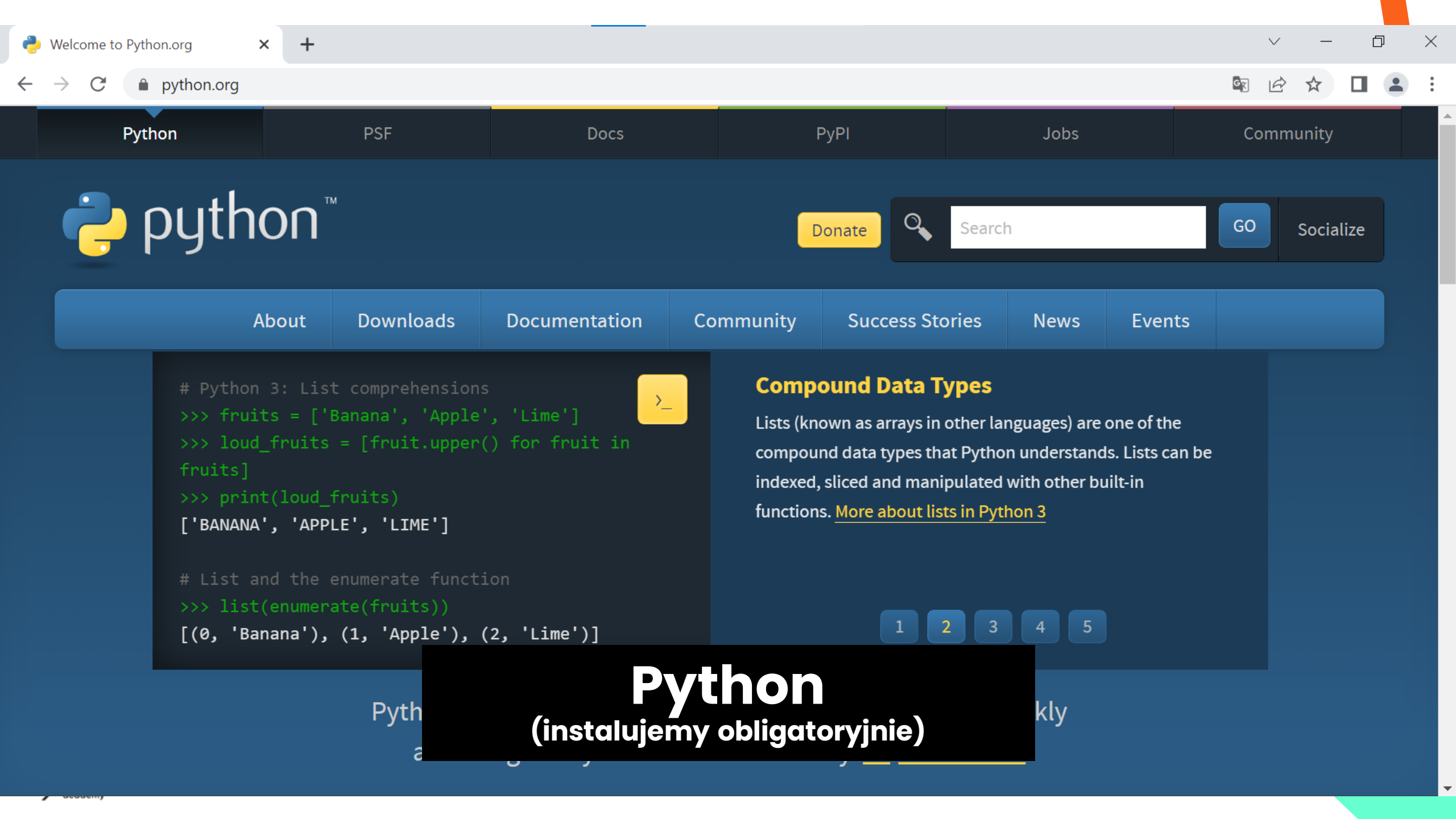
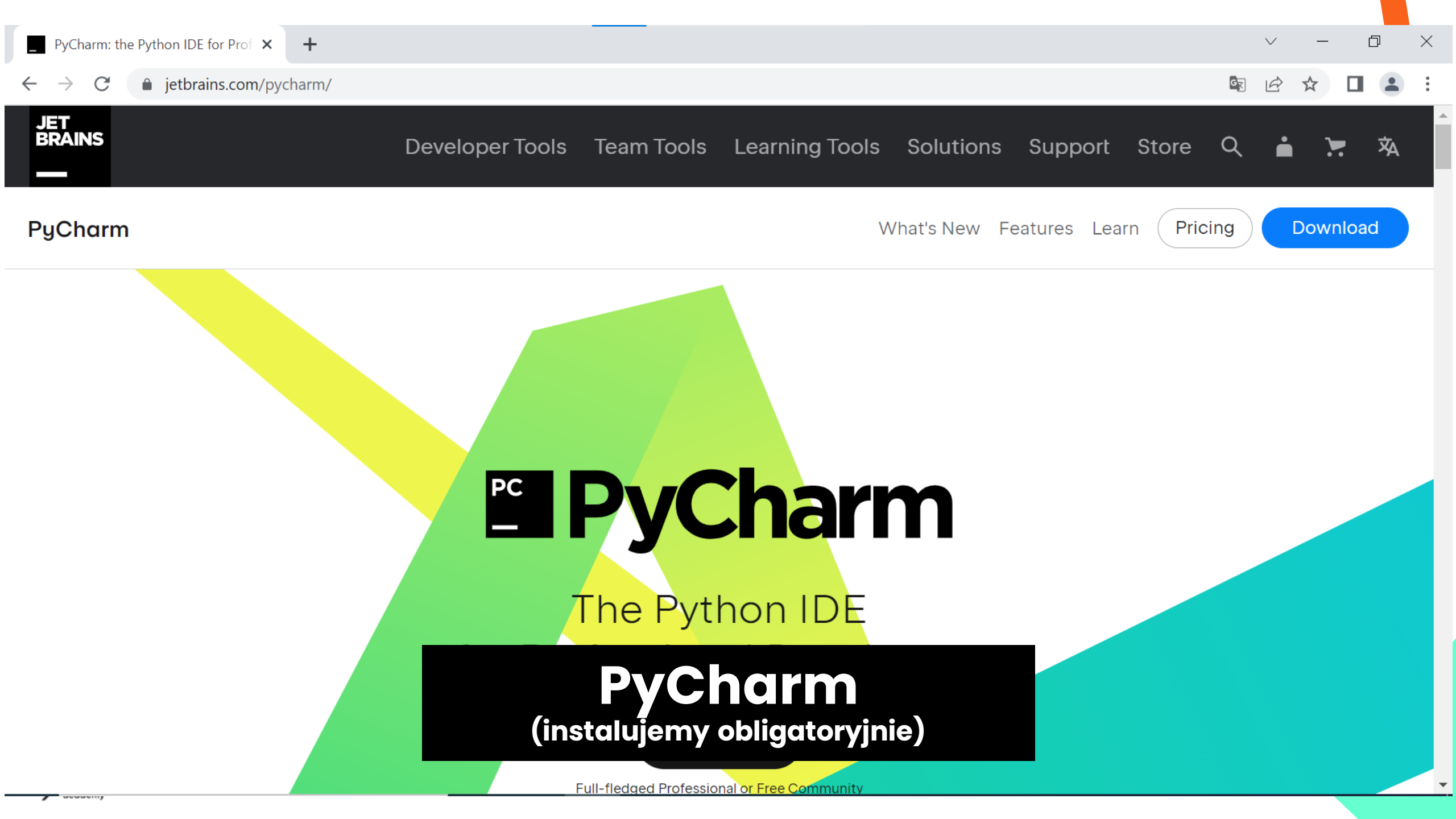
Wstęp do programowania w języku Python



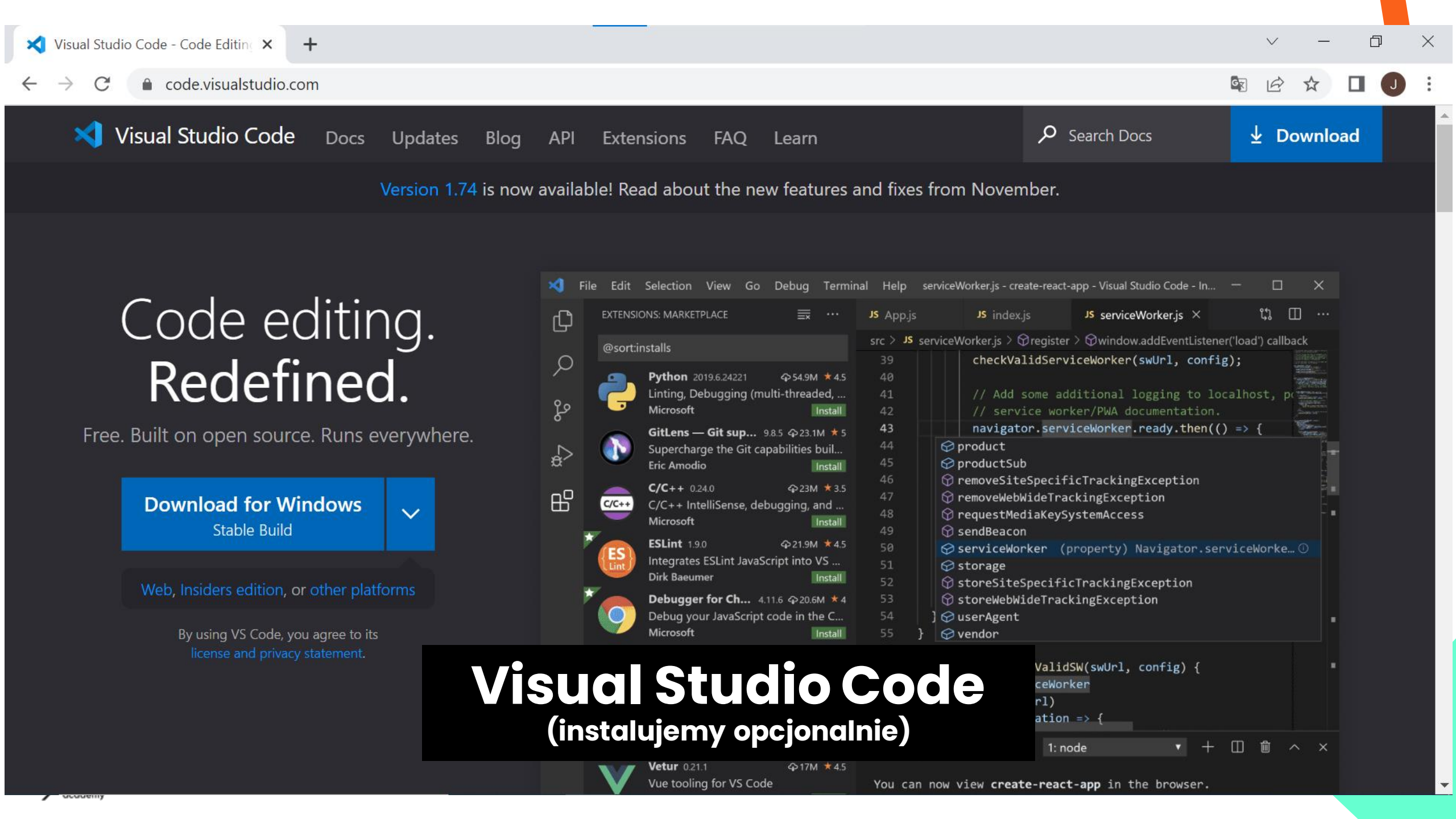
Real Python

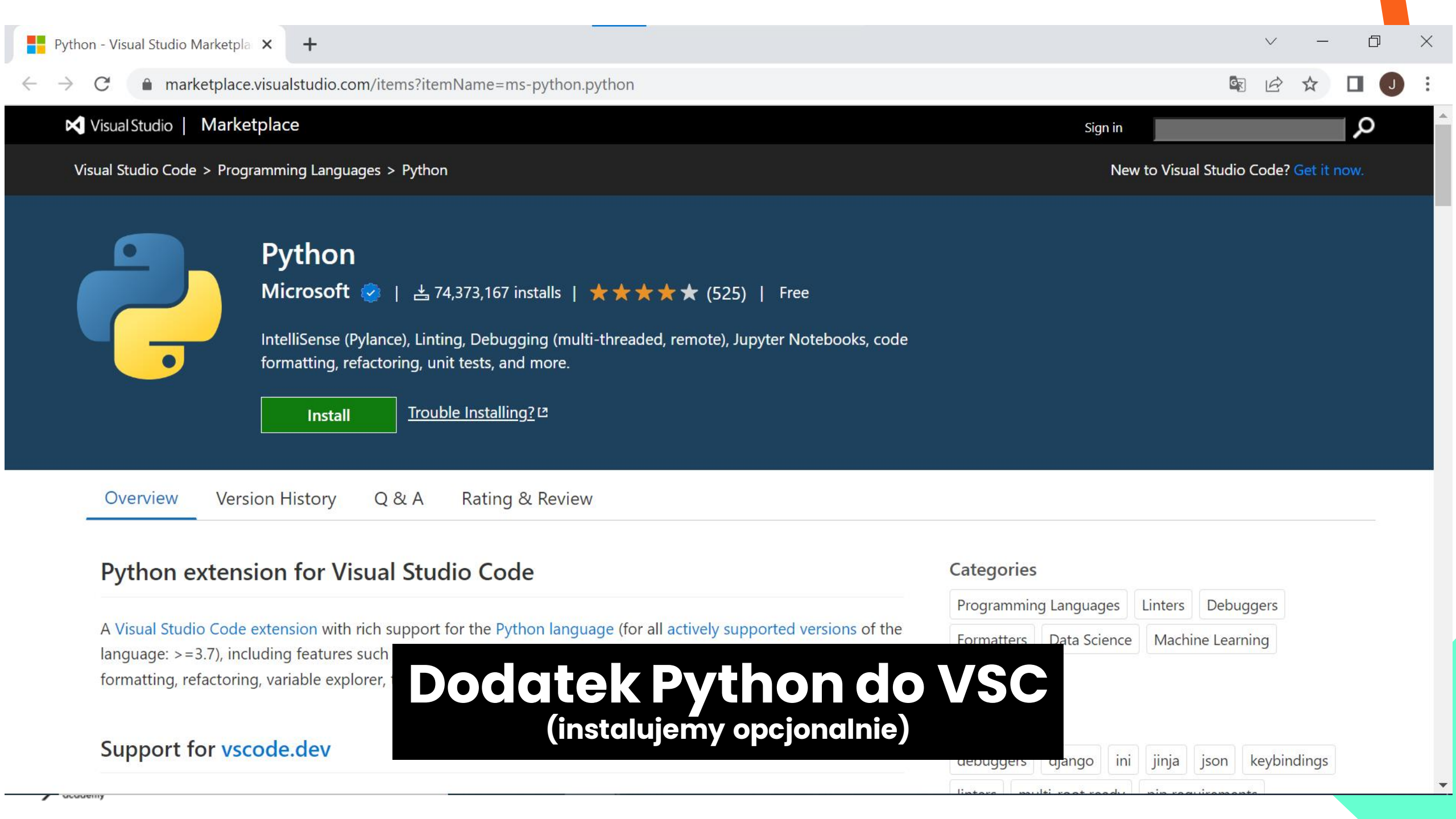
Co nam będzie potrzebne?


Welcome to Python.org
python.org
Python
PSF
Docs
PyPI
Jobs
Community
python™
Donate
Search
GO
Socialize
About
Downloads
Documentation
Community
Success Stories
News
Events
# Python 3: List comprehensions
>>> fruits = ['Banana', 'Apple', 'Lime']
>>> loud_fruits = [fruit.upper() for fruit in fruits]
>>> print(loud_fruits)
['BANANA', 'APPLE', 'LIME']
# List and the enumerate function
>>> list(enumerate(fruits))
[(0, 'Banana'), (1, 'Apple'), (2, 'Lime')]
Compound Data Types
Lists (known as arrays in other languages) are one of the compound data types that Python understands. Lists can be indexed, sliced and manipulated with other built-in functions. More about lists in Python 3
1
2
3
4
5
Python
(instalujemy obligatoryjnie)


PyCharm: the Python IDE for Prof
jetbrains.com/pycharm/
JET BRAINS
Developer Tools
Team Tools
Learning Tools
Solutions
Support
Store
PyCharm
What's New
Features
Learn
Pricing
Download
PC
PyCharm
The Python IDE
PyCharm
(instalujemy obligatoryjnie)
Full-fledged Professional or Free Community

O czym będziemy wspominali?


Visual Studio Code - Code Editing
code.visualstudio.com
Visual Studio Code
Docs
Updates
Blog
API
Extensions
FAQ
Learn
Search Docs
Download
Version 1.74 is now available! Read about the new features and fixes from November.
Code editing.
Redefined.
Free. Built on open source. Runs everywhere.
Download for Windows
Stable Build
Web, Insiders edition, or other platforms
By using VS Code, you agree to its
license and privacy statement.
File Edit Selection View Go Debug Terminal Help serviceWorker.js - create-react-app - Visual Studio Code - In...
EXTENSIONS: MARKETPLACE
@sort:installs
Python 2019.6.24221 54.9M 4.5
Linting, Debugging (multi-threaded, ...
Microsoft
Install
GitLens — Git sup... 9.8.5 23.1M 5
Supercharge the Git capabilities buil...
Eric Amodio
Install
C/C++ 0.24.0 23M 3.5
C/C++ IntelliSense, debugging, and ...
Microsoft
Install
ESLint 1.9.0 21.9M 4.5
Integrates ESLint JavaScript into VS ...
Dirk Baeumer
Install
Debugger for Ch... 4.11.6 20.6M 4
Debug your JavaScript code in the C...
Microsoft
Install
Vetur 0.21.1 17M 4.5
Vue tooling for VS Code
App.js
index.js
serviceWorker.js
src > serviceWorker.js > register > window.addEventListener('load') callback
checkValidServiceWorker(swUrl, config);
// Add some additional logging to localhost, p
// service worker/PWA documentation.
navigator.serviceWorker.ready.then(() => {
product
productSub
removeSiteSpecificTrackingException
removeWebWideTrackingException
requestMediaKeySystemAccess
sendBeacon
serviceWorker (property) Navigator.serviceWorke...
storage
storeSiteSpecificTrackingException
storeWebWideTrackingException
userAgent
vendor
ValidSW(swUrl, config) {
ceWorker
rl)
ation => {
1: node
You can now view create-react-app in the browser.
Visual Studio Code
(instalujemy opcjonalnie)


Python - Visual Studio Marketpla
marketplace.visualstudio.com/items?itemName=ms-python.python
Visual Studio | Marketplace
Sign in
Visual Studio Code > Programming Languages > Python
New to Visual Studio Code? Get it now.
Python
Microsoft | 74,373,167 installs | (525) | Free
IntelliSense (Pylance), Linting, Debugging (multi-threaded, remote), Jupyter Notebooks, code formatting, refactoring, unit tests, and more.
Install
Trouble Installing?
Overview
Version History
Q & A
Rating & Review
Python extension for Visual Studio Code
A Visual Studio Code extension with rich support for the Python language (for all actively supported versions of the language: >=3.7), including features such
formatting, refactoring, variable explorer,
Support for vscode.dev
Categories
Programming Languages
Linters
Debuggers
Formatters
Data Science
Machine Learning
debuggers
django
ini
jinja
json
keybindings
Dodatek Python do VSC
(instalujemy opcjonalnie)

Git - Downloading Package

git-scm.com/download/win

git --distributed-is-the-new-centralized

Search entire site...

- About
- Documentation
- Downloads
  - GUI Clients
  - Logos
- Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.

Download for Windows

Click here to download the latest (**2.39.0**) **64-bit** version of **Git for Windows**. This is the most recent maintained build. It was released **25 days ago**, on 2022-12-21.

Other Git for Windows downloads

Standalone Installer

32-bit Git for Windows Setup.

64-bit Git for Windows Setup.

Portable ("thumbdrive edition")

32-bit Git for Windows Portable.

64-bit Git for Windows Portable.

Using winget tool

Install winget tool if you don't already have it, then type this command in command prompt or

n, you can build it from the

GIT

(instalujemy opcjonalnie)

github.com/git-for-windows/git/releases/download/.../Git-2.39.0.2-64-bit.exe

Wstęp

```
110011100111000001111100000000100001111100001111110000000000100000110011111100001
1000100000100111111000100000000000000100111111000000111111000100000000000000000001000
111110010000000110000111110001100000000010011111001110011100011100000100011000
00111111000000111110010000001111100011001111111000011110000011110000011100111111100
001111000110011100000011100010001111100000011111001000000100000000111000000111000 1
1111000111110001110000001000000100001100011111000100000010000000011100000011100 1000
111110001111000000111100000111111000011111100000011110000000000000000000111100000011
100111000001111001111100011111000111111000000100000000000000000000000011111000 1110
000000111000000111000111001111100010001000000000001110000111110011000000000100111 11
000111100000011110011110001001110000001111100000111110011001111000100011110000000
0000010001111100100000010011110011001110001000111110001100000010001111110000011110
0111001111110001111000000111100011111000000001111000000111001000001111000100011111
0011000111110001111000000111001110001100111100100000000000000000011111000000111110 0
0100100000011100001111100100000100011100000011100011001111000100111111000110 0000
111100011111000111100000011100100000111100010011111000000111110000000001111000000 11
110000000000000000011100000011100000011000000100000011100011100000011001111100000111
111001001110000001111100000110001100000010011111110000001110011001111100000000111
0000011100000111100001100
```

Język maszynowy

software
development
academy

```
org  0x100

mov  dx, msg
mov  ah, 9
int  0x21

mov  ah, 0x4c
int  0x21

msg  db 'Hello, World!', 0x0d, 0x0a, '$'
```

Assembler dla 64-bitowych procesorów Intela

(we współpracy z Johnem von Neumannem, 1947)

```c
#include <stdio.h>

int main() {
   printf("Hello, World!");
   return 0;
}
```

Język C

(Dennis Richie, lata 70)

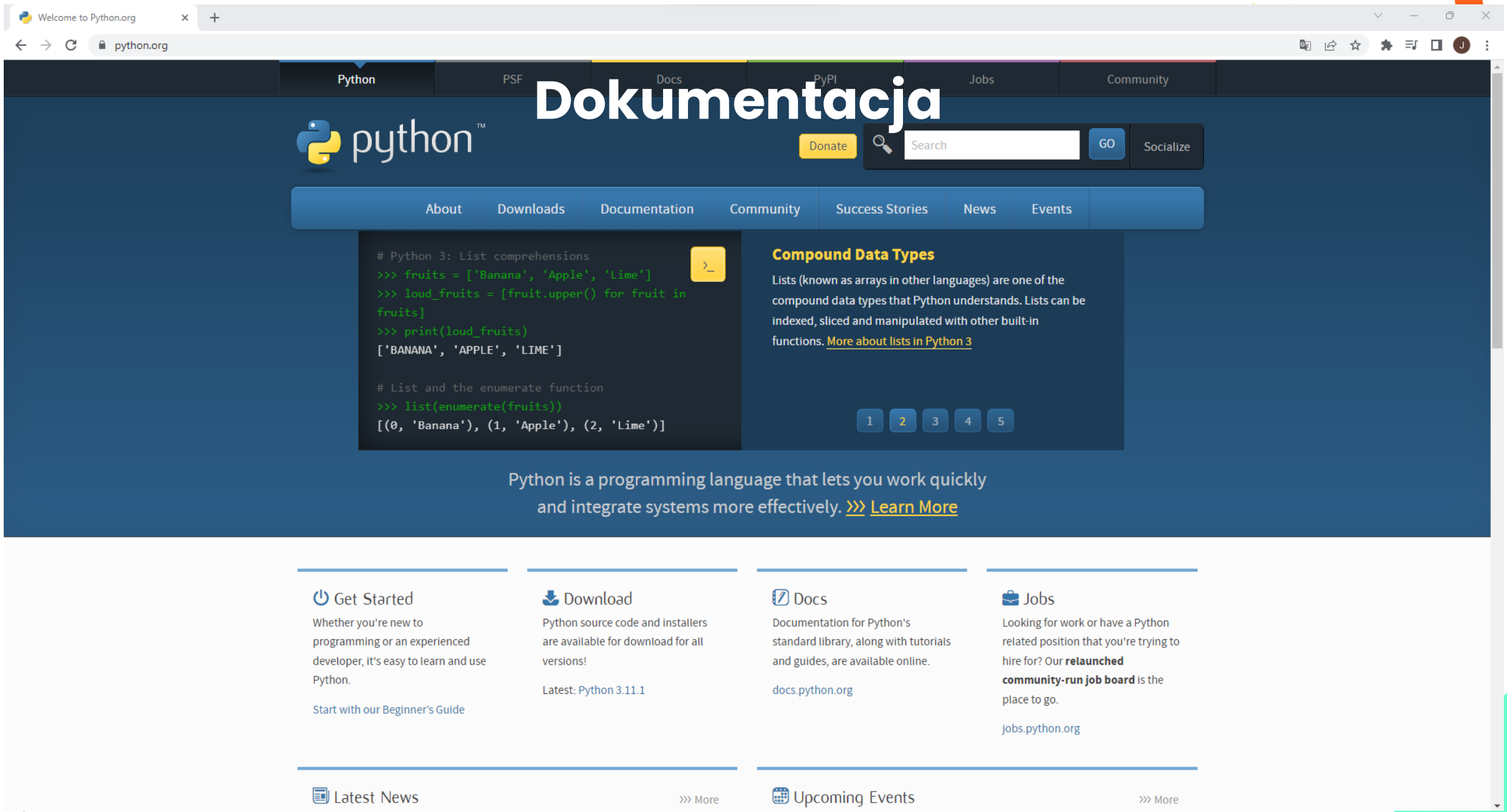
```python
print("Hello, world!")
```

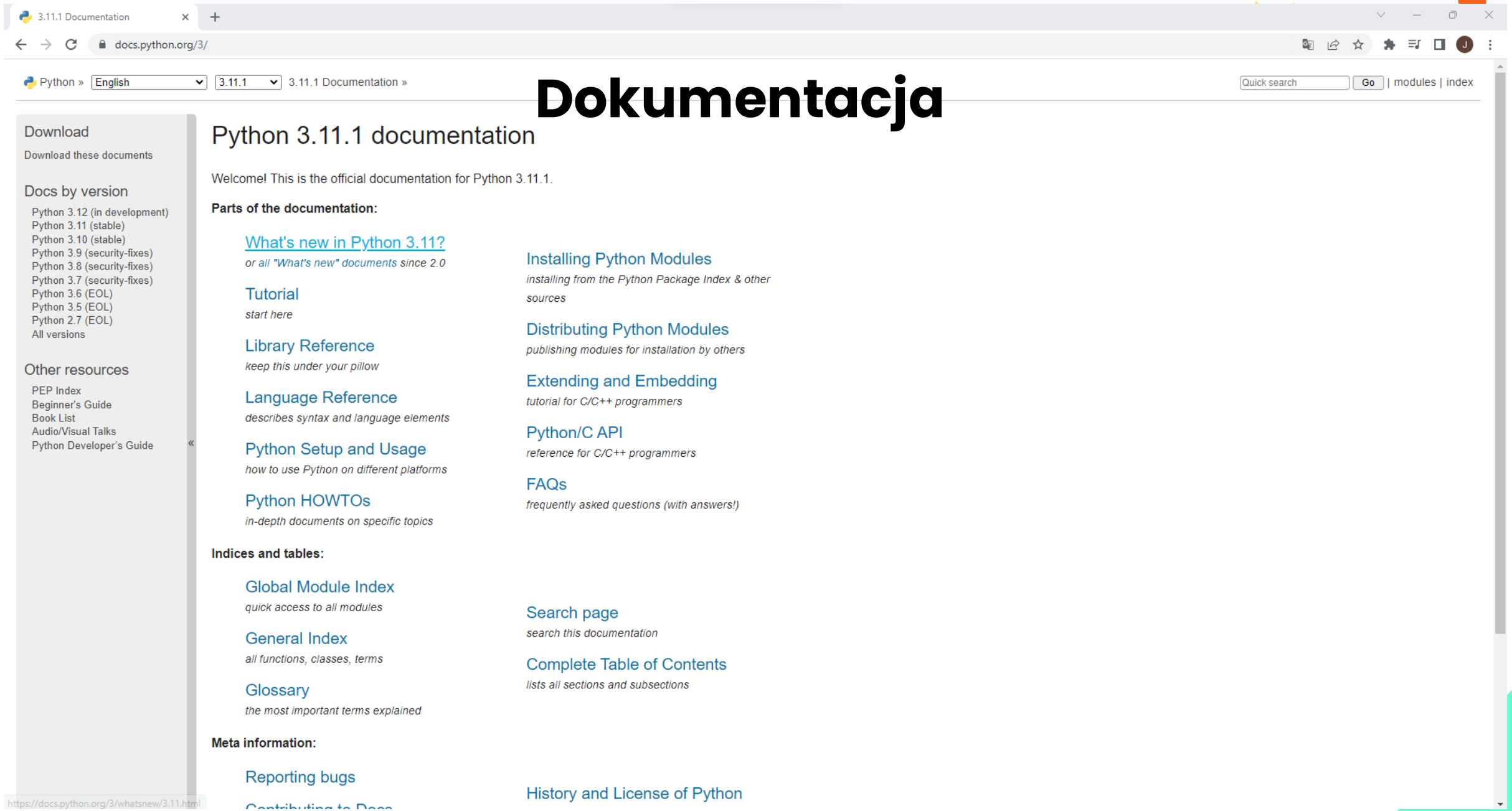
Python

(Guido van Rossum, 1991)

Materiały

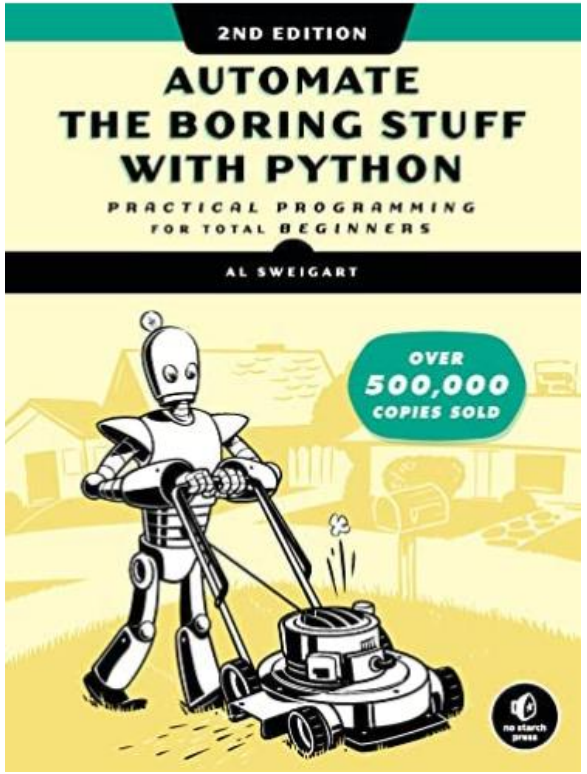
Dokumentacja

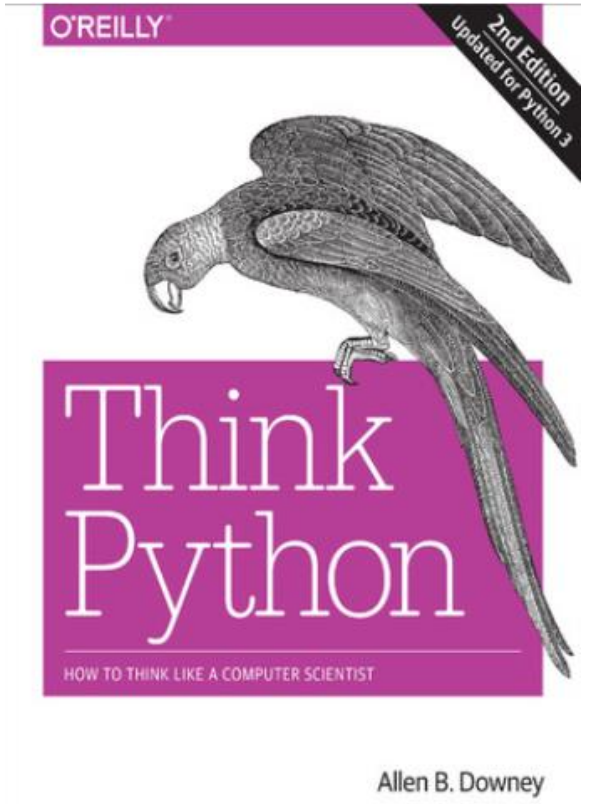




Dokumentacja

Książki


2ND EDITION
AUTOMATE
THE BORING STUFF
WITH PYTHON
PRACTICAL PROGRAMMING
FOR TOTAL BEGINNERS
AL SWEIGART
OVER
500,000
COPIES SOLD
no starch press


O'REILLY
2nd Edition
Updated for Python 3
Think
Python
HOW TO THINK LIKE A COMPUTER SCIENTIST
Allen B. Downey

Tutoriale

Python Tutorials – Real Python

realpython.com

Real Python | Start Here | Learn Python | More | Search | Join | Sign-In

Real Python Tutorials

Python Folium: Create Web Maps From Your Data

You'll learn how to create web maps from data using folium. The package combines Python's data wrangling strengths with the data visualization power of the JavaScript library Leaflet. In this tutorial, you'll create and style a choropleth world map that shows the ecological footprint per country.

Jan 11, 2023 data-science intermediate python

— FREE Email Series —

Python Tricks

```
# How to merge two dicts
# in Python 3.5+

>>> x = {'a': 1, 'b': 2}
>>> y = {'b': 3, 'c': 4}

>>> z = {**x, **y}

>>> z
{'c': 4, 'a': 1, 'b': 3}
```

Email...

Get Python Tricks »

No spam. Unsubscribe any time.

All Tutorial Topics

advanced api basics best-practices community databases data-science devops django docker flask front-end gamedev gui intermediate machine-learning projects python testing tools web-dev web-scraping

Explore Real Python

Learning Paths
Guided study plans for

Python Tutorials
In-depth articles and step-

Quizzes
Check your learning

Brows
Focus on a sp

Improve Your Python

software development academy

Kursy

CS50's Introduction to Programm

cs50.harvard.edu/python/2022/

Interested in a verified certificate or a professional certificate?

CS50's Introduction to Programming with Python

OpenCourseWare

Donate

David J. Malan
malan@harvard.edu

Welcome

An introduction to programming using a language called Python. Learn how to read and write code as well as how to test and "debug" it. Designed for students with or without prior programming experience who'd like to learn Python specifically. Learn about functions, arguments, and return values (oh my!); variables and types; conditionals and Boolean expressions; and loops. Learn how to handle exceptions, find and fix bugs, and write unit tests; use third-party libraries; validate and extract data with regular expressions; model real-world entities with classes, objects, methods, and properties; and read and write files. Hands-on opportunities for lots of practice. Exercises inspired by real-world programming problems. No software required except for a web browser, or you can write code on your own PC or Mac.

Whereas CS50x itself focuses on computer science more generally as well as programming with C, Python, SQL, and JavaScript, this course, aka CS50P, is entirely focused on programming with Python. You can take CS50P before CS50x, during CS50x, or after CS50x. But for an introduction to computer science itself, you should still take CS50x!

▶ **Watch an introduction**

How to Take this Course

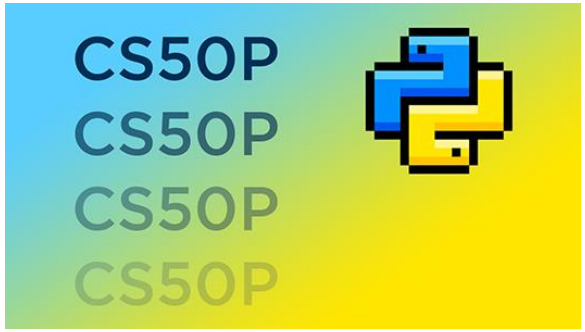
Even if you are not a student at Harvard, you are welcome to "take" this course for free via this OpenCourseWare by working your way through the course's ten weeks of material. If you'd like to submit the course's problem sets and final project for feedback, be sure to create an edX account, if you haven't already. Ask questions along the way via any of the course's communities!

- If interested in a verified certificate from edX, enroll at cs50.edx.org/python instead.
- If interested in a professional certificate from edX, enroll at cs50.edx.org/programs/python (for Python) or cs50.edx.org/programs/data (for Data Science) instead.

How to Teach this Course

If you are a teacher, you are welcome to adopt or adapt these materials for your own course, per the license.


CS50W
CS50W
CS50W
CS50W


CS50P
CS50P
CS50P
CS50P


CS50AI
CS50AI
CS50AI
CS50AI

This is CS50.


CS50M
CS50M
CS50M
CS50M


CS50x
CS50x
CS50x
CS50x


CS50G
CS50G
CS50G
CS50G

Dziękujemy!

software
development
academy