

# Learn how to code with Python!

## Python is a great first programming language

- Easy to learn, even with no previous programming experience.
- Easy to use. Includes powerful features for performing common tasks.
- Open source and supported on Windows, Mac, Unix, and other computing platforms.
- A large online community with many resources is available in case you need help.



## Major websites and programs use Python

- Python helps power websites like Google, YouTube, Reddit, and Instagram.
- Libraries like NumPy, Biopython and Astropy make it easy to use Python for scientific computing tasks.
- Python is the main programming language for Raspberry Pi computing devices.



## Python is in-demand

- Ranked as the #1 programming language to learn in 2018 by *TechRepublic*, a publication for IT professionals.
- In 2016, half of all jobs paying over \$57,000 required basic coding skills like being able to program in Python.



## Learn Python with Computer Science 293B

- CS293B is a 3-credit course offered most semesters.
- The course teaches what you need to know to code with Python. No previous programming experience is required.

Learn more at [cs101.wvu.edu/python](https://cs101.wvu.edu/python)

## **About Computer Science 293B**

3 credits

No prerequisites

## **What you'll learn in CS293B**

Python is an easy-to-use general purpose programming language. In CS293B, you'll learn how to:

- Use decision structures like If statements
- Write For and While loops
- Organize data with lists and tuples
- Create and use functions
- Read and write files
- Manage exceptions
- Manipulate strings
- Use modules and external libraries
- Perform regression analysis
- Incorporate object-oriented programming techniques

## **Who should take CS293B**

Python programming skills can benefit many students. Consider taking CS293B if you:

- Want to learn how to program
- Have large datasets to analyze for your research or work
- Wish to learn valuable skills that employers want
- Are interested in Computer Science as a major or minor

## **What other students say about the course**

“It’s a straightforward but challenging course for people who want to improve their programming skills in a short time.” —Chemistry graduate student

“The course is special because it is always based on real data and events, which makes me feel like I’m doing something that is meaningful and real.” —Global Initiative freshman student