

# Learn To Program With Python 3


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## Introduction

# What is Python?



- Python is an:
  - Compiled/Interpreted
  - High-level
  - General-Purpose programming language
- Python emphasizes code readability
- Released in 1991
  - Python 2 & Python 3
- Python has many uses:
  - Scripting
  - Web Development
  - Data Analytics
  - Machine Learning

 Use Python for... [>>> More](#)

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**Web Development:** [Django](#) , [Pyramid](#) , [Bottle](#) , [Tornado](#) , [Flask](#) , [web2py](#)

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**GUI Development:** [tkInter](#) , [PyGObject](#) , [PyQt](#) , [PySide](#) , [Kivy](#) , [wxPython](#)

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**Scientific and Numeric:** [SciPy](#) , [Pandas](#) , [IPython](#)

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**Software Development:** [Buildbot](#) , [Trac](#) , [Roundup](#)

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**System Administration:** [Ansible](#) , [Salt](#) , [OpenStack](#)

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# Why Python?

- Python is well documented
- Python has a thriving community

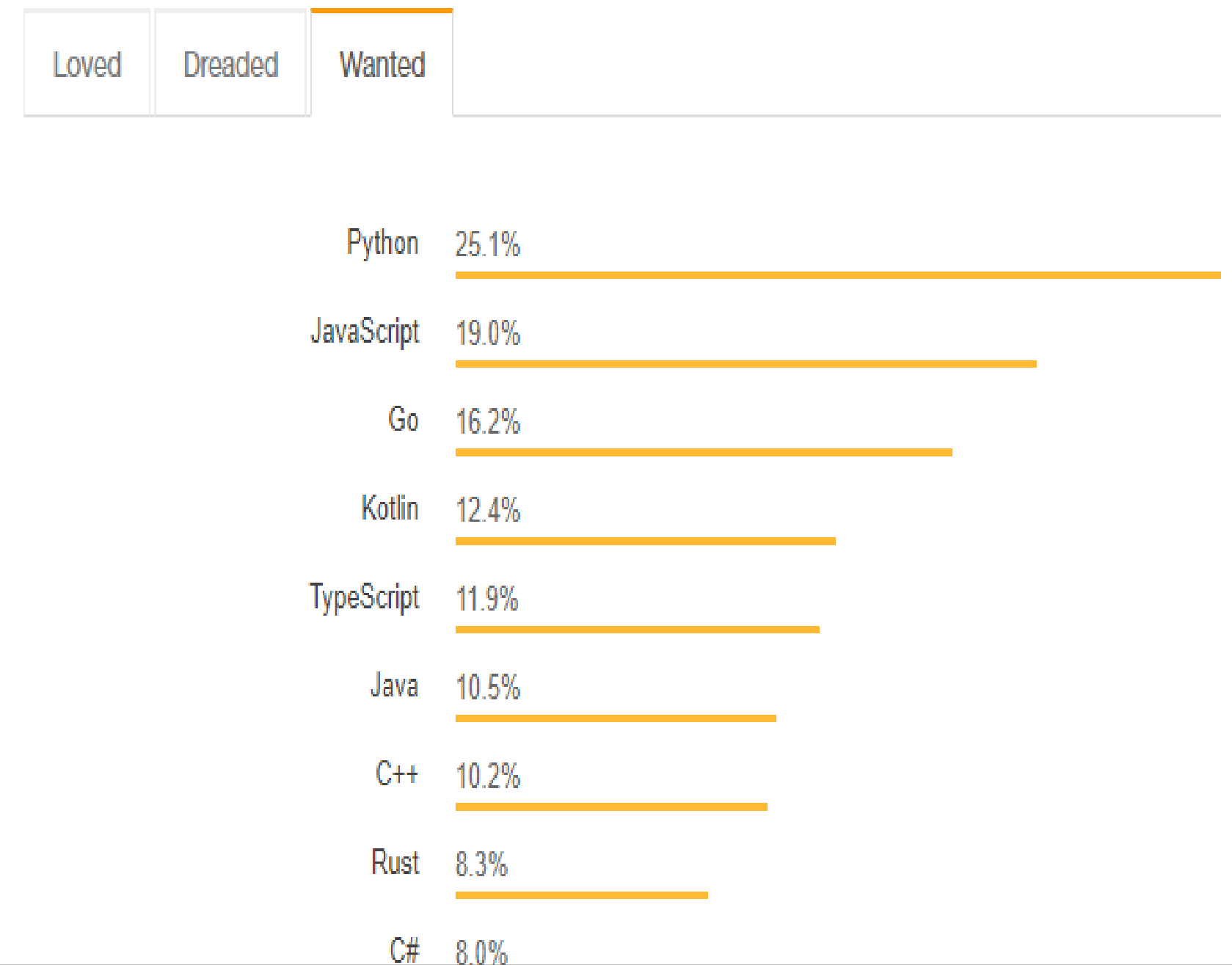
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an object-oriented, strongly typed, multipurpose programming language, designed to be quick (to learn, to use, and to

867 asked today, 5024 this week

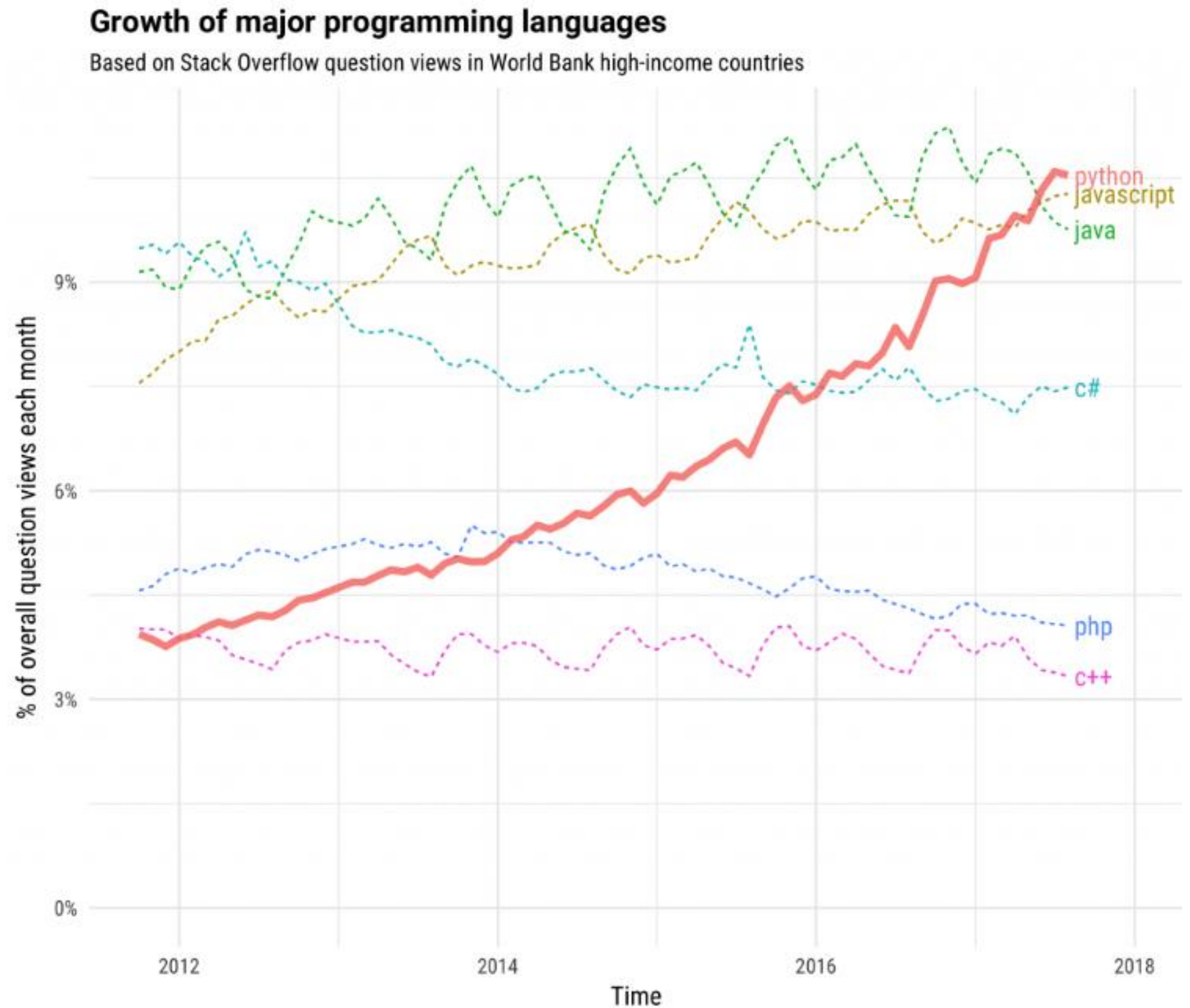
- Python is the **#1 most wanted language**
  - And the #3 most loved language
  - <https://insights.stackoverflow.com/survey/2018/#technology>

## Most Loved, Dreaded, and Wanted Languages



# Why Python?

- Python popularity is growing!



# Why Python?

- Python is **beginner friendly!**
- Which of the below code samples makes more sense?

## JAVA 'Hello World' Program

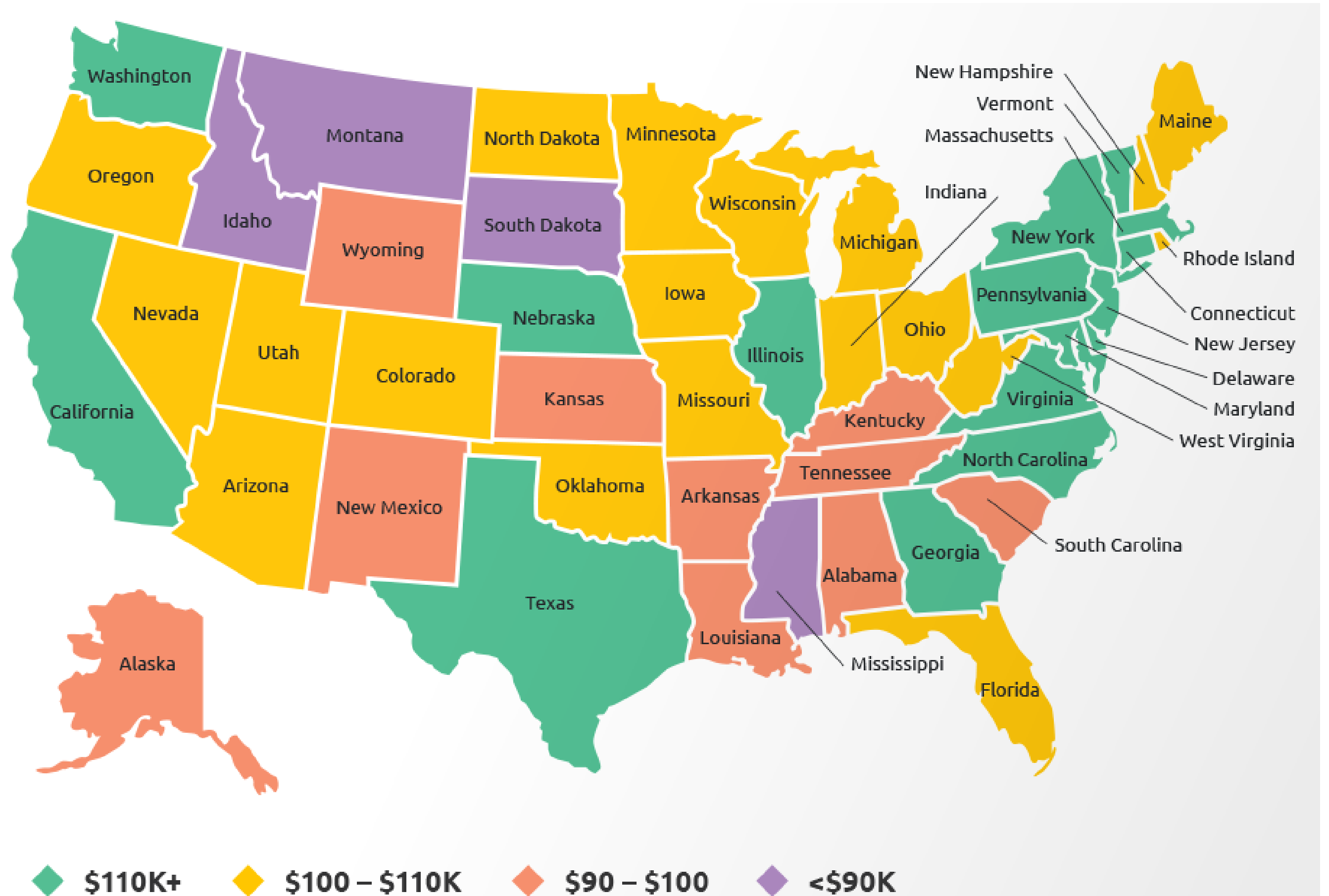
```
public class Hello
{
    public static void main(String[] args)
    {
        System.out.println("Hello World!");
    }
}
```

## Python 'Hello World' Program

```
print("Hello World")
```

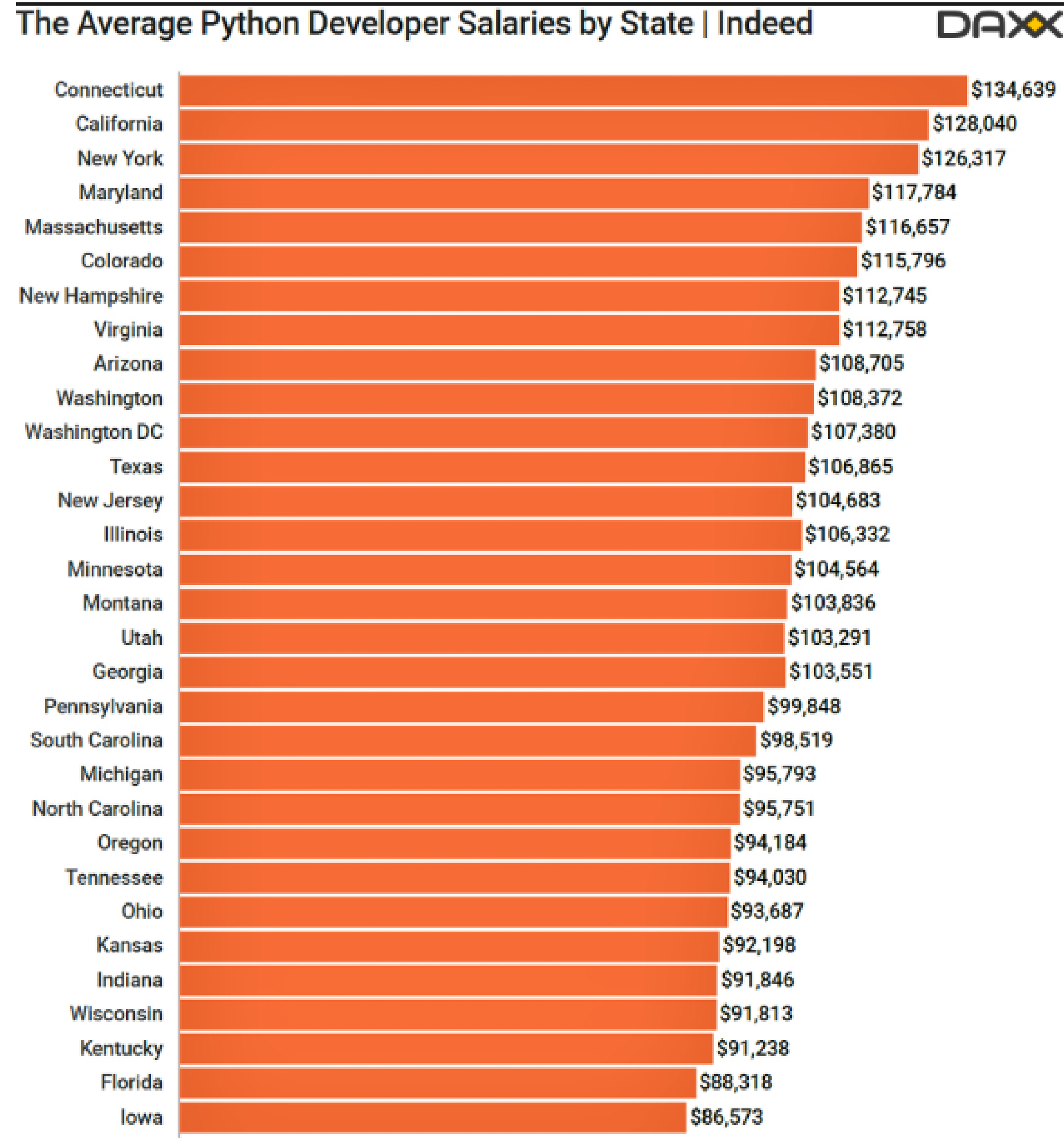
# Why Python?

- Python pays!



# Why Python?

- Python pays!



# Why This Course

- **Free!**
- Beginner Focused!
- Learn more than just Python
  - Some Computer Science theory
  - Command Line
  - Read official documentation
  - Introduction to Github
- Interactive Community
  - Ask questions in the comments or the Discord chat server
  - See [projectfullstack.com](https://projectfullstack.com) for Discord server link



# How To Use This Course

- **Do not skip videos.**
  - Instead, watch videos multiple times
- Use the command line as much as possible
- Search first, then ask
  - Search the internet first
  - Then ask in the comments / discord server
- Help others
  - If you encounter a problem and solve it, let others know in the comments / discord server
- Be patient
  - Programming is difficult
  - Don't get frustrated

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Learn Full Stack Web Development  
[www.projectfullstack.com](http://www.projectfullstack.com)