Learn To Program With Python 3

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

Web Development: Django , Pyramid , Bottle , Tornado , Flask , web2py

GUI Development: tkInter , PyGObject , PyQt , PySide , Kivy , wxPython

Scientific and Numeric: SciPy , Pandas , IPython

Software Development: Buildbot , Trac , Roundup

System Administration: Ansible , Salt , OpenStack

Learn Full Stack Web Development
www.projectfullstack.com

Why Python?

- Python is well documented

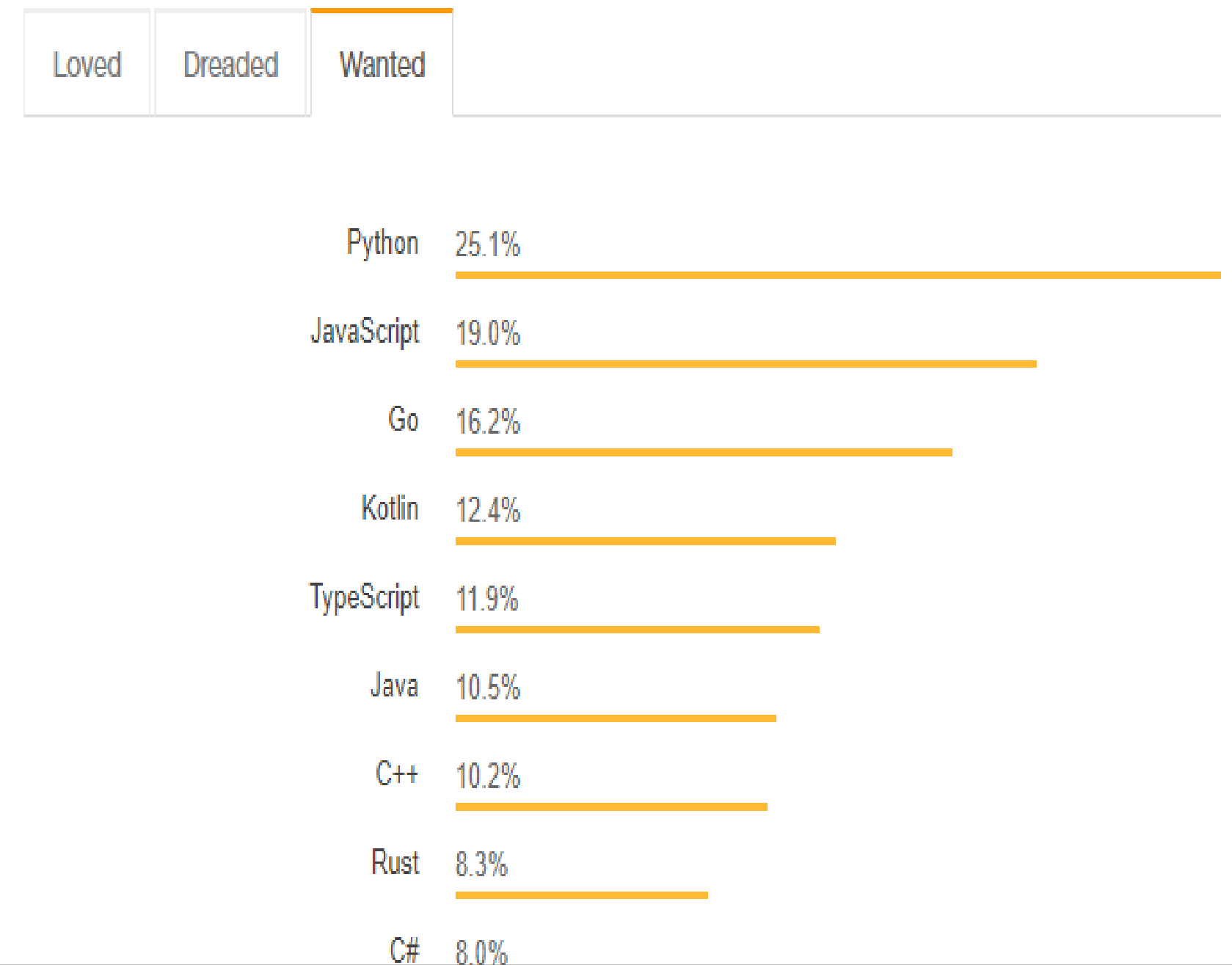- Python has a thriving community

python × 1079416

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

Loved	Dreaded	Wanted

Language	Percentage
Python	25.1%
JavaScript	19.0%
Go	16.2%
Kotlin	12.4%
TypeScript	11.9%
Java	10.5%
C++	10.2%
Rust	8.3%
C#	8.0%

Why Python?

- Python popularity is growing!

Growth of major programming languages

Based on Stack Overflow question views in World Bank high-income countries

python
javascript
java
c#
php
c++

% of overall question views each month

9%

6%

3%

0%

2012   2014   2016   2018

Time

Learn Full Stack Web Development
www.projectfullstack.com
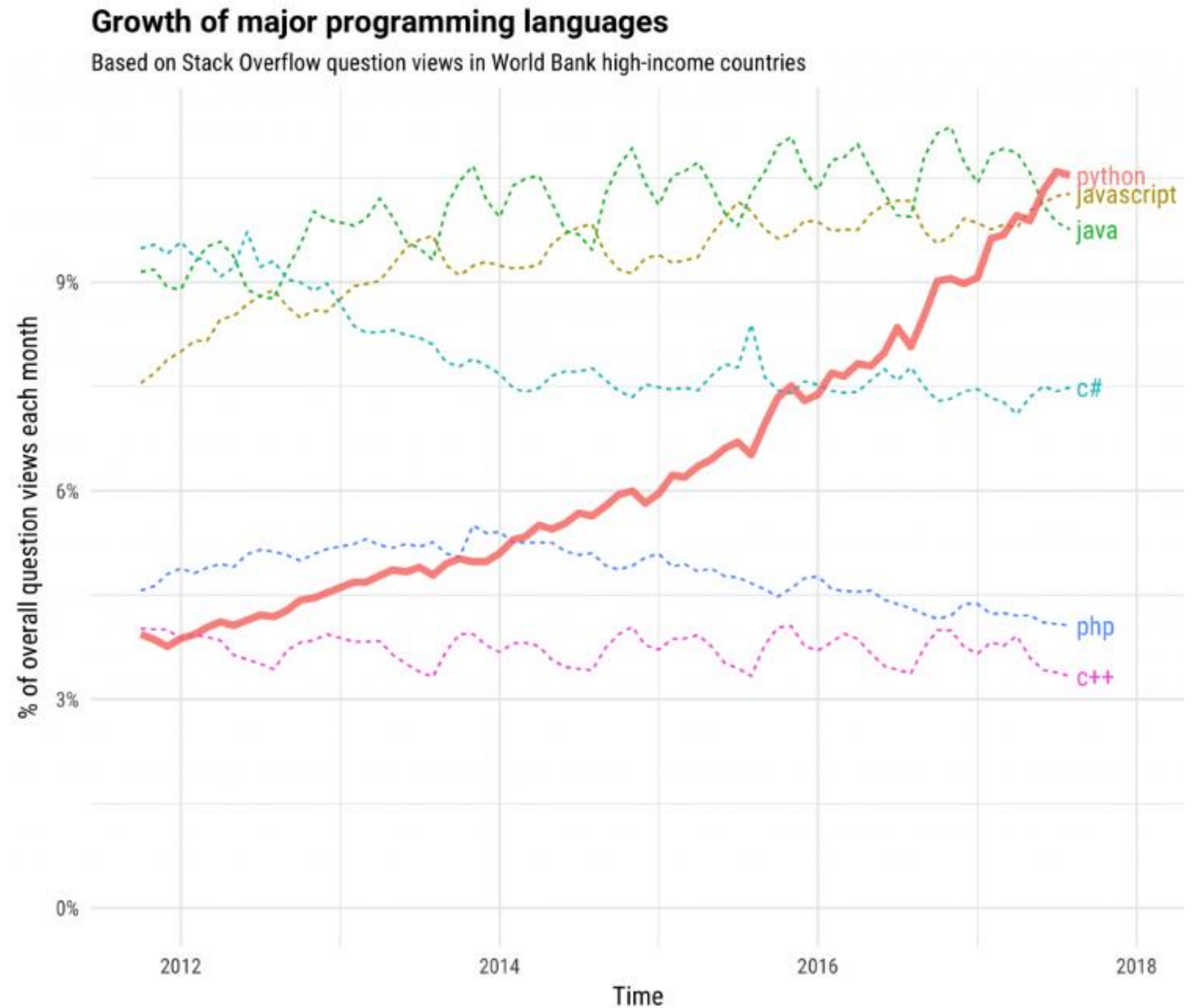
Why Python?

- 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!");
        }
}
```
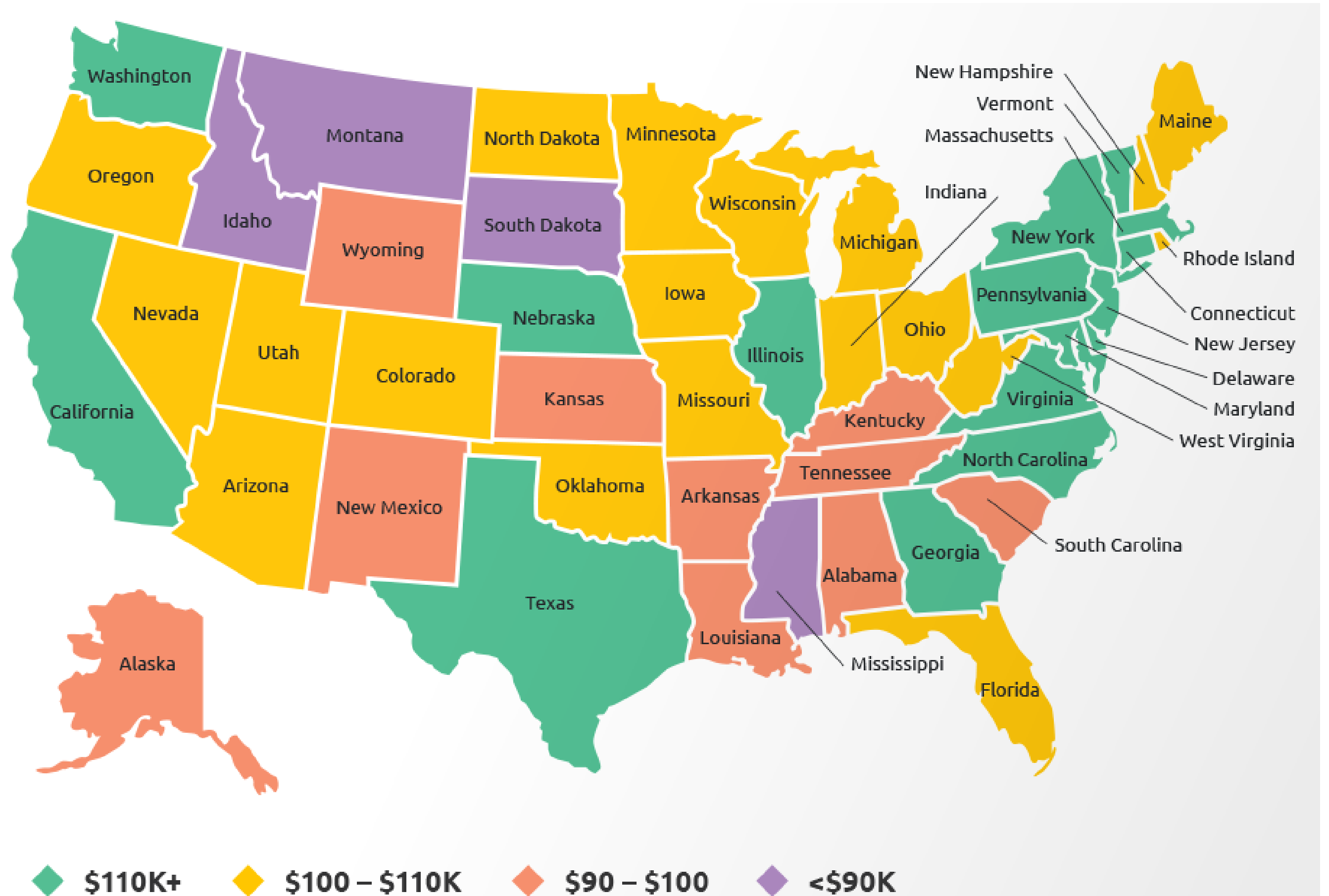
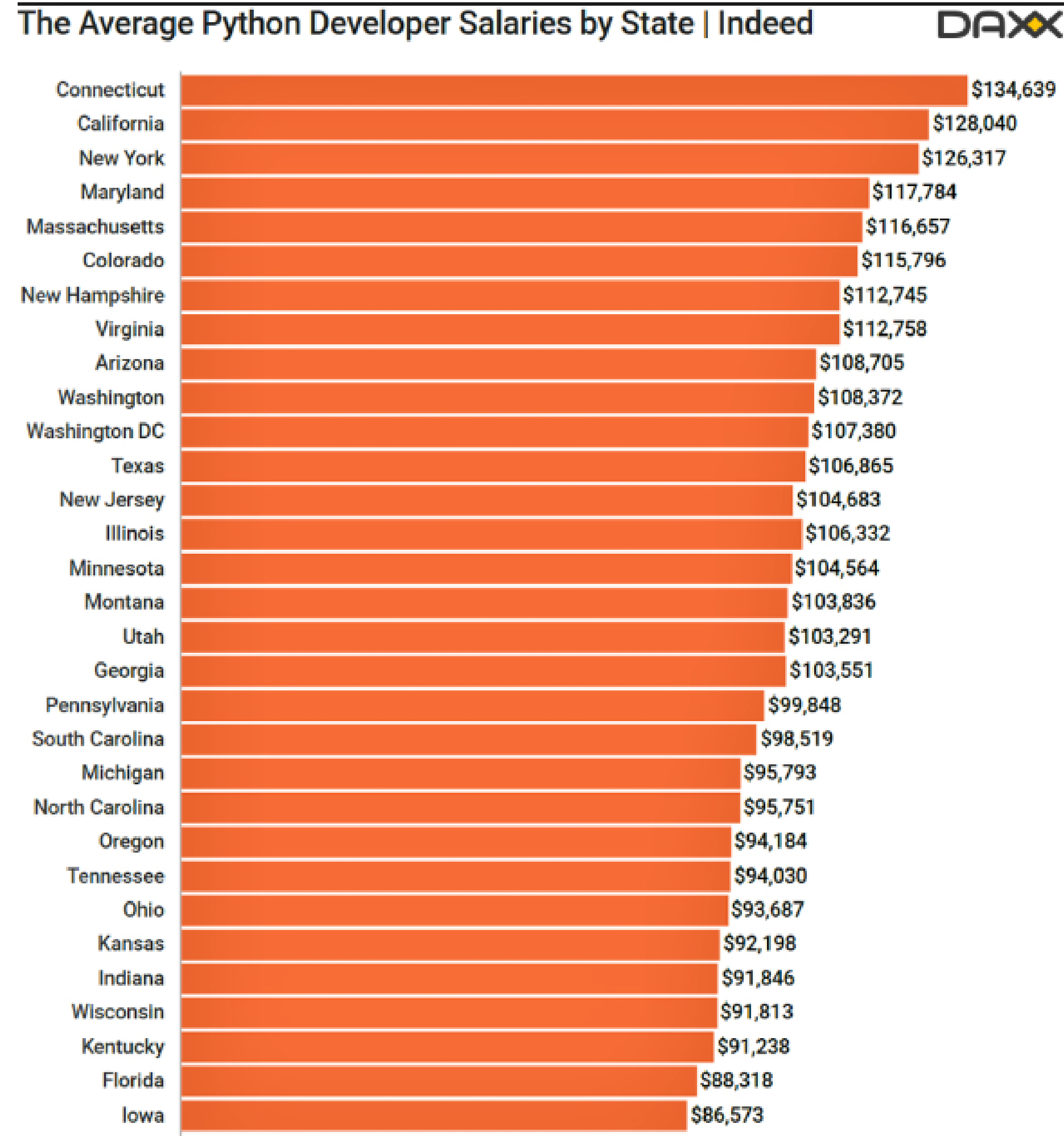### Python 'Hello World' Program

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

Why Python?

- Python pays!

$110K+ $100 – $110K $90 – $100   <$90K

Source: daxx.com

Why Python?

- Python pays!

The Average Python Developer Salaries by State | Indeed — DAXX

State	Salary
Connecticut	$134,639
California	$128,040
New York	$126,317
Maryland	$117,784
Massachusetts	$116,657
Colorado	$115,796
New Hampshire	$112,745
Virginia	$112,758
Arizona	$108,705
Washington	$108,372
Washington DC	$107,380
Texas	$106,865
New Jersey	$104,683
Illinois	$106,332
Minnesota	$104,564
Montana	$103,836
Utah	$103,291
Georgia	$103,551
Pennsylvania	$99,848
South Carolina	$98,519
Michigan	$95,793
North Carolina	$95,751
Oregon	$94,184
Tennessee	$94,030
Ohio	$93,687
Kansas	$92,198
Indiana	$91,846
Wisconsin	$91,813
Kentucky	$91,238
Florida	$88,318
Iowa	$86,573

7

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 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

Learn To Program With Python 3

Learn Full Stack Web Development
www.projectfullstack.com