#### Data Science Series



Complete Python Programming Course from Beginner to Advance

Topic: Python Basis & Data Structures



15 AUGUST, 2020 08:00 PM



## Welcome to the live session on "Python for Data Science"

#### Agenda for today:

- 1. Understanding Python
- 2. Why we need Python
- 3. Live code demo
  - 1. Python Data Structures
  - 2. Basic commands
  - 3. Lists
  - 4. Problem solving on Lists

What is Python? Package -> code like pre-withen

Python is an easy, simple to learn and a very powerful programming language that can be widely used in many applications. Often, programmers fall in love with Python because of the increased productivity it provides. Since there is no compilation step, the edit-testdebug cycle is incredibly fast.

Applications:

1. Data Science — Sklenico

2. Game Development — Pygane

3. Web Development — ムッツッ・



Java -> compile -> Execute

Pymon -> Run

### What we need to learn Python?

Python has the most number of openings for the year 2020.

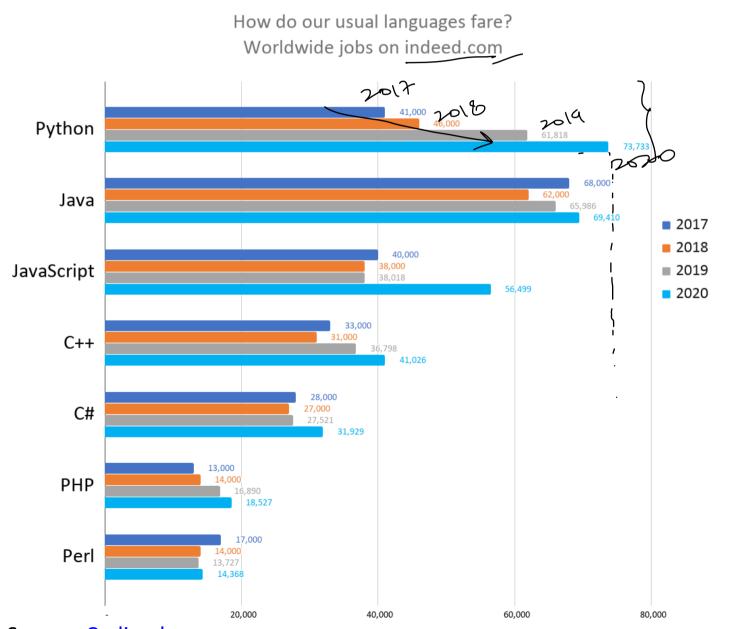


Image Source: Codingdogo

#### What we need to learn Python?

Print (" Something")

- Python is easy to understand and follows English like code construct.
- We can run Python on various platforms such as Windows, Mac, Linux etc.
- Python requires less line of code than other languages like Java.
- Python has a huge set of open sourced libraries for various applications.

```
Java
     File dir = new File("."); // g
                                    1 my_file = open("/home/xiaoran/D
     et current directory
         dir.getCanonicalPath() + F
                                    3 print(my_file.read())
     ile.separator + "Code.txt"
                                     4 my_file.close()
    FileInputStream fis = new File
     InputStream(fin);
    // Construct the BufferedReade
     r object
    BufferedReader in = new Buffer
     edReader(new InputStreamReader
     (fis));
    String aLine = null;
    while ((aLine = in.readLine())
         // //Process each line, he
     re we count empty lines
        if (aLine.trim().length()
     == 0) {}
15 }
17 // do not forget to close the
     buffer reader
                                 Image Source: BelITSoft
18 in.close();
```

## How to install Python?

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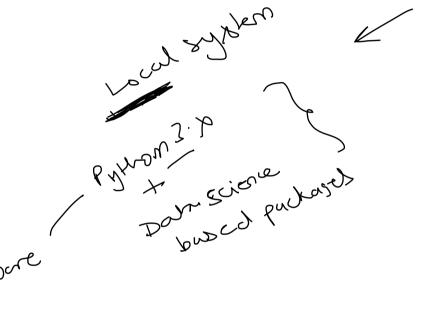
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Loo (nB disk)

While pylincode

Machine projects For Data Science, Anaconda Distribution is the most preferred way of installing Python.

• Let's look at the Demo.





# How Python hold data?

