

# Python3 Basics

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# Programming Languages

Website:

PHP, HTML, CSS,  
JavaScript (Eg. Facebook)

APP(Iphone/Mac/Ipad):

Swift, Objective-C.

App(Android):

Java, C++

Game/Video:

C/C++, Java, Python (Eg. Youtube)

Software(Windows System):

C#, C/C++

Data Science:

Python, R

Data Base:

SQL

System/Search Engine:

C/C++ (Eg. Google, Windows, etc. )

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Ranking of Programming Languages:

<https://www.tiobe.com/tiobe-index/>

# Python

1. Python Vs R
2. Python IDEs
3. Python IDE
4. Python Tutorial
  1. <https://docs.python.org/3/tutorial/>

# Python or R

- Python:

- Production:**

- 1. Data, Youtube, ...

- Research:**

- 1. Deep Learning, ...

- R:

- Research:**

- 1. Statistical Learning

- 2. Bioinformatics

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Python 3 or Python 2 ?

Python3 Please, <https://www.python.org>

ps. The python Group no longer maintains python2 any more.

Python Tutorial Link:

<https://docs.python.org/3/tutorial/>

# Python IDE(Integrated Development Environment)

- Python online IDE
- Google Colab
- Pycharm
- Vscode
- Spyder (like Rstudio)
- Jupyter
- .....

Ps.

If, Programming Language  $\approx$  Real Language  
Then, IDE  $\approx$  Word (By Microsoft)

Summer Workshop Link:

[https://github.com/zcslab/2021\\_Summer\\_STEM\\_workshop](https://github.com/zcslab/2021_Summer_STEM_workshop)

Python IDEs:

<https://www.guru99.com/python-ide-code-editor.html>

How to install Pycharm?

<https://www.youtube.com/watch?v=SZUNUB6nz3g>

How to install vscode for Python3?

<https://code.visualstudio.com/docs/python/python-tutorial>

<https://www.youtube.com/watch?v=dNFgRUD2w68>

How to install spyder?

<https://docs.spyder-ide.org/current/installation.html>

[https://www.youtube.com/watch?v=ou65T\\_mC8Z8](https://www.youtube.com/watch?v=ou65T_mC8Z8)

How to install Anaconda and jupyter?

<https://www.youtube.com/watch?v=kbTSj5xTgNc>