

## •What is Python?

- **Why the name is Python?**
- **Where we use Python language?**
- **The most important and more pronouncing word in the IT industry, Why Django?**
- **What is the use of Django?**
- **Why Django so popular nowadays? and**
- **We close this by exploring what is Django REST API.**

So before entering into a deep journey, let's clarify one thing if you hear Python in programming language does not assume snake, it is not related to the snake, there was the small story behind this naming convention lets see in 2nd question.

### 1) What is Python?

Python is a high-level programming language, created by [Guido van Rossum](#) in 1989 at the National Research Institute in the Netherlands. Officially Python was made available to the public on 20th Feb 1991. Python developed by 3 main features, functional programming from C, Object-oriented programming from C++, and scripting from a shell script. With this, it made by a combination of dynamic typing and dynamic binding. Built for rapid application development, scripting, Gaming, Website building, networking, and many more.

Python has 2 versions, 2.x and 3.x. However, 3.x is advance of 2.x version, so in the industry, we have demand for the latest one i.e. 3.x.

### 2) Why the name is Python?

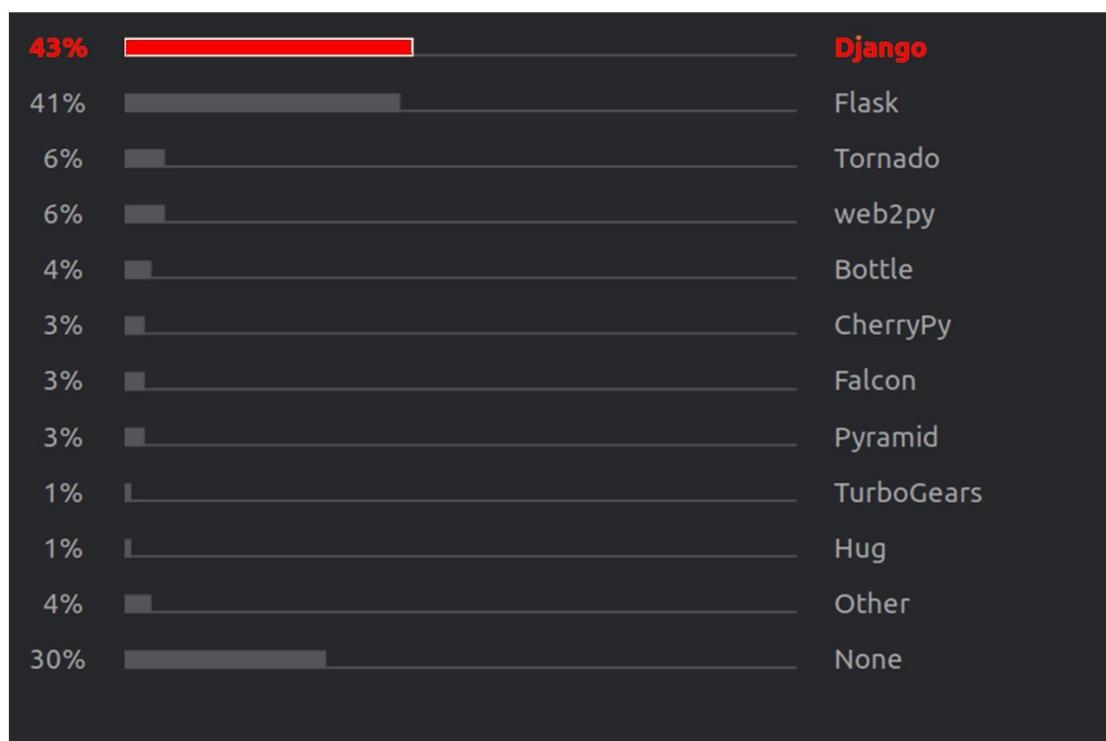
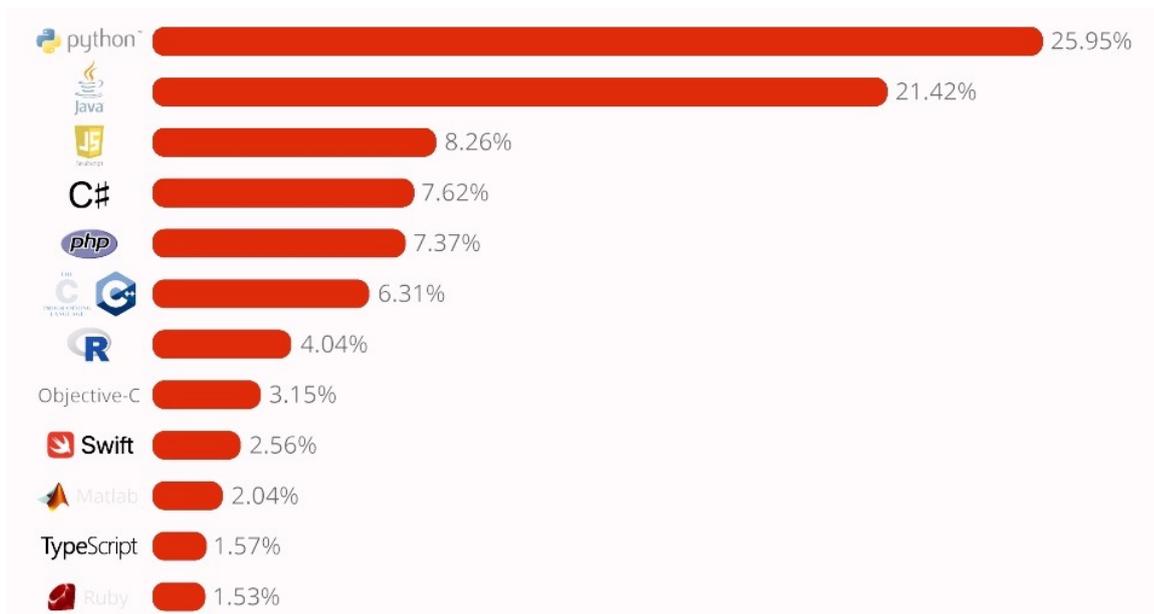
So The interesting name Python comes from the world-famous television show on BBC around 1970, "Monty Python's Flying Circus", It was saying this one is the famous show for the Guido so he felt this will be the short and simple name and he continues the ceremony for this language as python.

### 3) Where we use python language?

Nowadays most of the industry giving the preference to Python language, of course, we have rooted for this such as for Django, REST API for web frameworks, Selenium for testing, and many more for many applications. Below is the list of the domains where we can use the python language with different frameworks.

- Desktop Application
- Web Application
- Database Application
- Game Application
- Data Analysis
- ML/AI(Machine Learning /Artificial Intelligence)
- IoT(Internet of Things)

By seeing all this you can assume there is nothing left where we can not use Python language, Below images talk about the graphical view of how python and Django are rapidly using in the industry for the year 2019-2020



That's some basic information of Python, Now let's Jump on Django.

### Q)What is Django and why Django?

Django is the most popular framework that works on python used to build Web applications (e.g. Google, Youtube, etc.). Before Django comes there were using Pyramid, Flask but compare to Django they are not that much advance. Django comes with a lot of features like simplicity, flexibility, scalability. It follows the MVT (Model View Template) Structure flow, which helps store data, render templates, and many more.

Famous Companies that uses Django

- Instagram
- Spotify
- Dropbox
- NASA
- Mozilla
- Reddit
- Youtube
- 

### **Q) Why Django popular?**

Django has its features and naming conventions for all components such as for database it provides `moodels.py` for business logic it provides `views.py` and so on, More important thing Django has its admin panel we can customize that which is deemed an easy way of work. I listed out below the inbuilt features which are useful in industry daily life.

- Admin Panel
- Own web server
- MVT architecture
- ORM (Object Relational Mapper)
- HTTP libraries
- Django test framework

I'll discuss those details in some other tutorials As I said already Django has followed MVT architecture, Which will cover the backend as well as frontend part also but we have an advanced version of Django which is used to create the only API i.e. REST API.

### **Q) what is Django REST API?**

Well, I'll tell you What do we mean API, Basically at the backend, we create one URL, and its getting call from any frontend (either React JS or Angular JS) and we handle requests according to the response. Via this way, we can develop any kind of application for any platform and we speed up the work.

So Django is providing an API interface facility, that concept is termed as REST API (Representational State Transfer)(Application programing Interface) it uses the HTTP request to GET, POST, DELETE, UPDATE the data in minimum lines of code.

### **Conclusion:**

In short, Python is the most famous, high-level, and simple language which is used to develop applications, scripts, games, etc. Based on python, we have plenty of frameworks among that Django, REST API is famous to develop the Web applications and these framework is brooming the industry today.