

History of Python

late 1980's

Dutch programmer → Guido van Rossum
at CWI (Netherlands)

↓
Centrum Wiskunde Informatica

To Develop a New OS → Amoeba

Simplicity
Readability

↑
A B C + mix Environment

↓
flexibility
power

↓
A B C

Dec 1989 → First version Python 0.9.0
Feb 1991 ↗

Key Milestones

Python 1.0 (1994)

Python 2.0 (2000)

Python 3.0 (2008) → It maintained its backward compatibility

↳ print function
handling of unicode

More consistent and easier to use.

→ continued to evolve with regular updates.

Python (3.1) → 2014 → Asyncio → Asynchronous Programming
↓
Modern Web Development &
Networking.

Python 3.6 → formatted string literals.

Python 3.8 & 3.9 → Walrus operator
positional parameters.

- Web Development
- Artificial Intelligence
- Data Science
- ML, DL
- Automation

Simplicity, Readability & Versatility
→ Huge community & Extensive libraries.

Python

"Monty Python Flying circus"

1. Easy to learn and use.

similar to English language

;

{

}

print ("AI Ki Pathshala")

↓

2. Interpreted language:

you don't need to compile your code
before you run it.

→ compiling code:

High level programming code → Machine code
(the code you write)

↓
01

to translate your HLLC into a Machine code
there is a special type of program
called compiler

compiled : C, C++, Java

```
#include <stdio.h>
int main() {
    printf("Hello");
    return 0;
}
```



Machine code



Execute

→ Interpreted language : Python
compiler X

Interpreter → Directly execute
This happens in real time.

3. Versatile :

4. Large community & Libraries.

↓
Pandas, Numpy
Django, Flask

5. Readable code:

Python 2
→ Python 3

