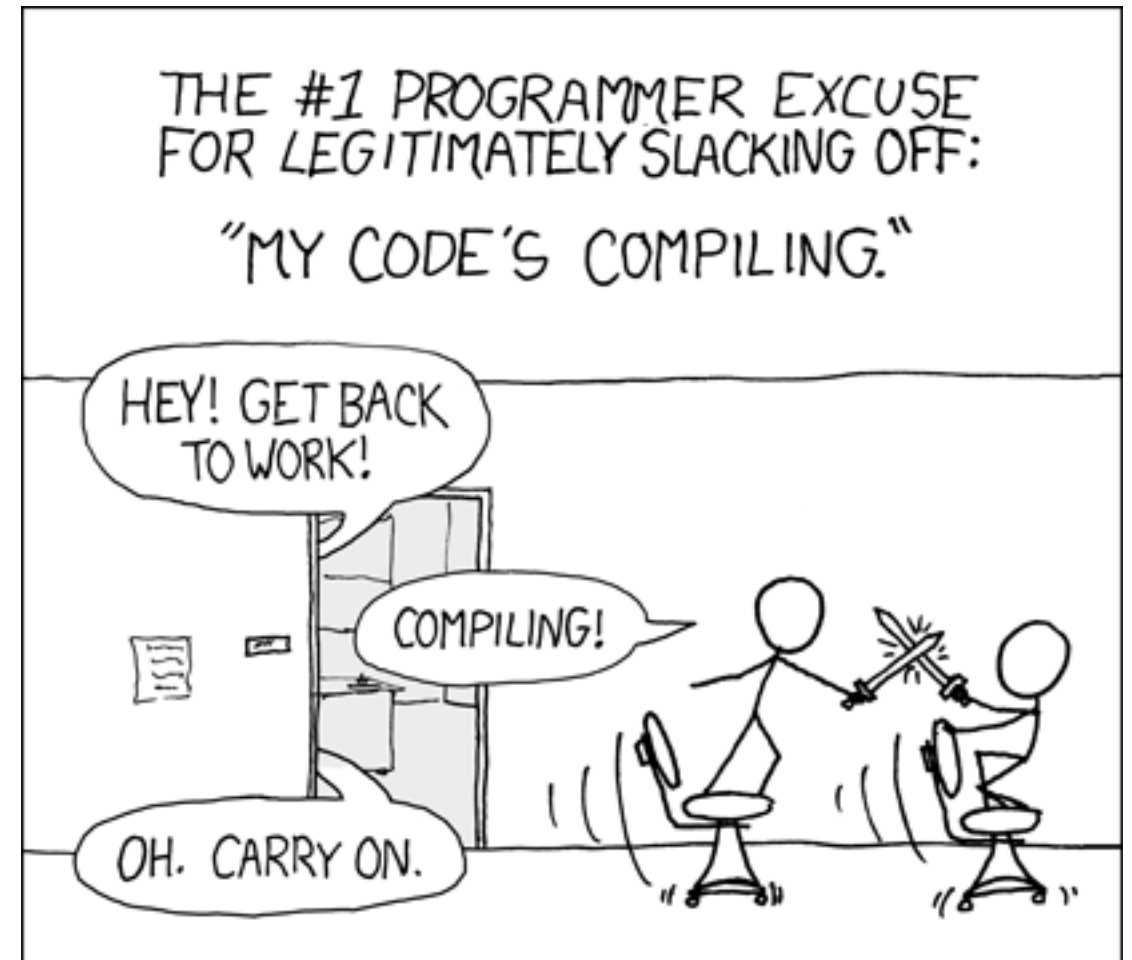


Python: Getting Started

Why we are here?

Why learn Python?

- General Purpose; Multifunctional Swiss Knife
- Easy to learn
- Interactive
- At times, It works like magic!



Still not convinced??



Overview

Developer Profile

Technology

I. Most Popular Technologies

II. Most Loved, Dreaded, and Wanted

III. Technologies and Occupations

IV. Top Paying Technologies

V. Correlated Technologies

Work

Community

Methodology

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Take control of your job search.

Stack Overflow Jobs puts developers first. No recruiter spam or fake job listings.



Top Paying Technologies

Top Paying Technologies by Region

Worldwide

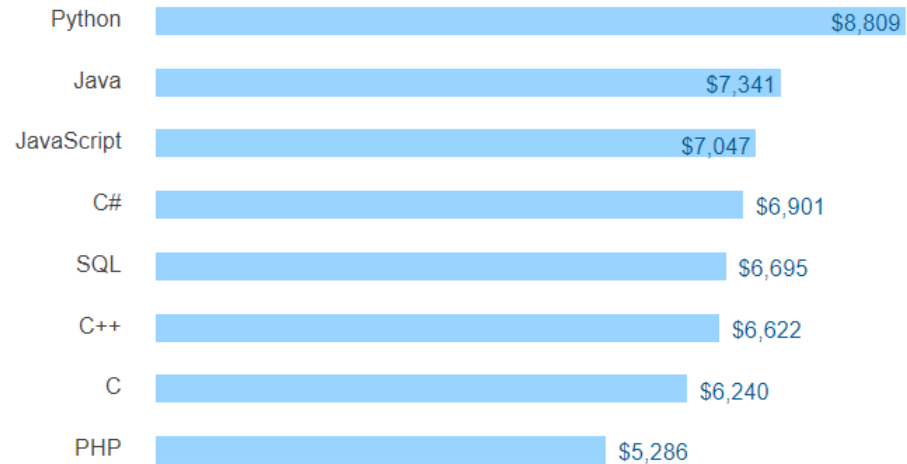
US

UK

Germany

India

France



Installing Python

Hello World in Python

C++ "Hello World"

```
#include <iostream.h>
main()
{
    cout << "Hello World! ";
}
return 0
```

Java "Hello World"

```
class HelloWorldApp
{
    public static void main(String[] args)
    {
        System.out.println("Hello World!");
    }
}
```

Python

```
print "Hello world"
```



Identifiers

An identifier is a name used to identify a variable, function, class, module or other object.

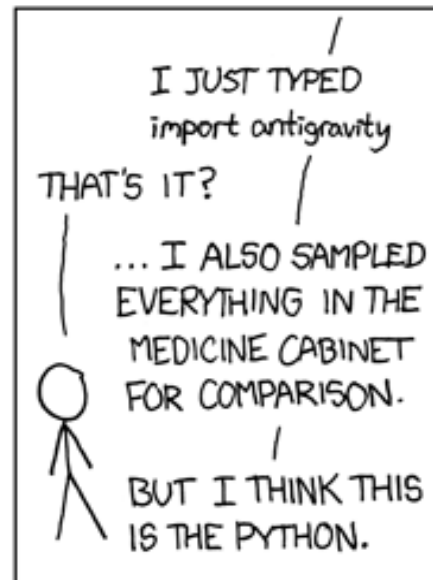
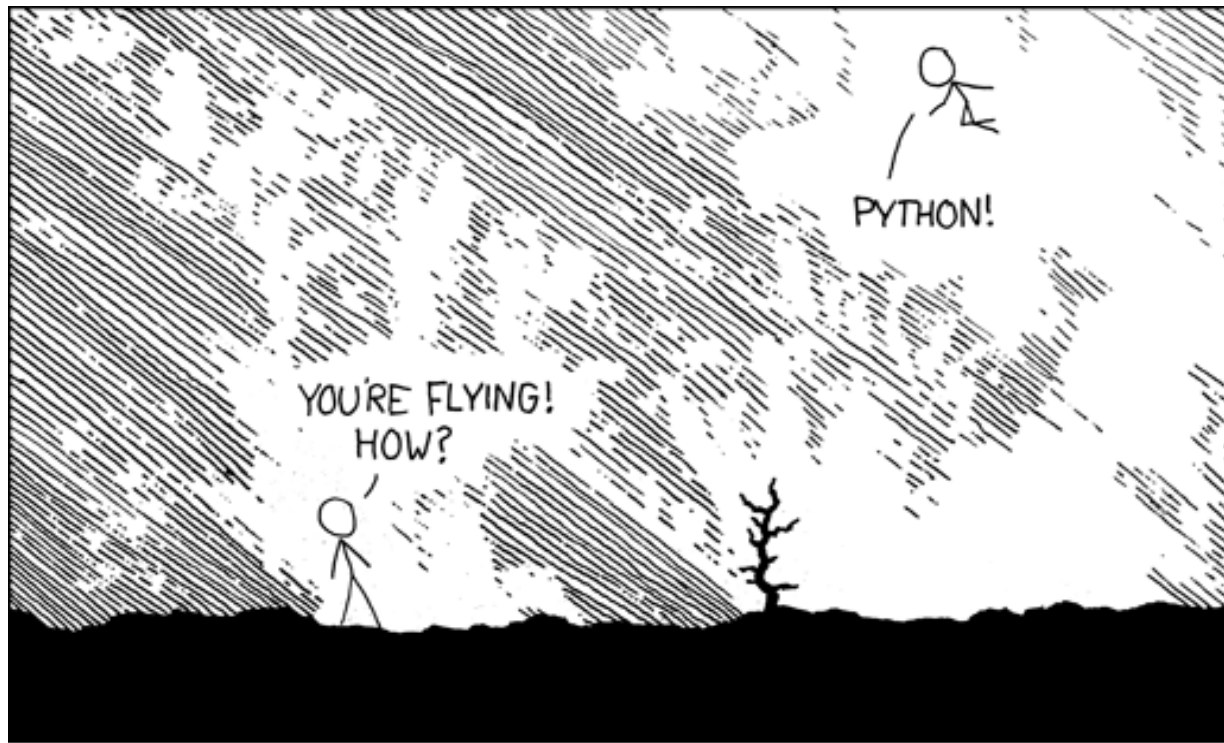
In Python an identifier starts with a letter A-Z or a-z or an underscore (`_`) followed by zero or more letters, underscores and digits (0 to 9).

Python does not allow punctuation characters such as `@`, `$`, and `%` within identifiers.

Python is a case sensitive programming language. Thus, **Python** and **python** are two different identifiers in Python.

Reserved Keywords

and	exec	not
assert	finally	or
break	for	pass
class	from	print
continue	global	raise
def	if	return
del	import	try
elif	in	while
else	is	with
except	lambda	yield



Branch Statements



Branch Statements

C / C++ /
JAVA

```
if (a > b)
    System.out.print('A is greater');

if (fileExists)
    System.out.print('File exists');
else
    System.out.print('no such file');

if (fileExists)
{
    System.out.print('file exists');
    System.out.print('file opened');
}
else if (createfile)
    System.out.print('create file');
else
    System.out.print('File operation failed');
```

Python

```
if a > b:
    print('A is greater')

if fileExists:
    print('File exists')
else:
    print('no such file')

if fileExists:
    print('file exists')
    print ('opened file')
elif createfile:
    print('create file')
else:
    print('File operation failed')
```

Loops

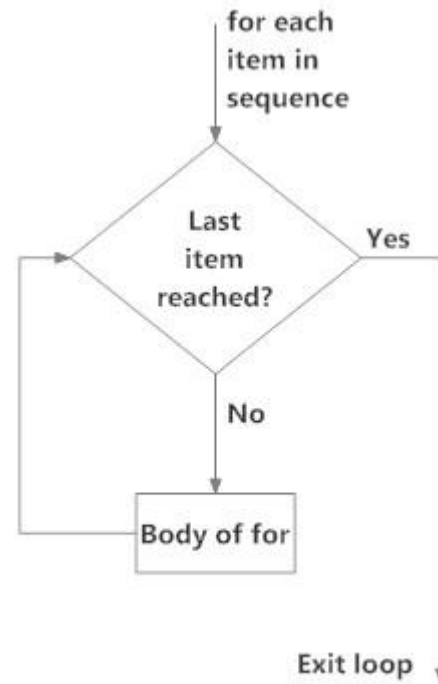


Fig: operation of for loop

for loop

C / C++ /
JAVA

```
for (int i=0; i<100; i++)  
{  
    System.out.print(i);  
    System.out.print(' ');  
}  
System.out.println();
```

Python

```
for item in some_iterable_object:  
    do_something()  
    do_something_else()
```

while loop

C / C++ /
JAVA

```
while(condition)
{
    statement(s);
}
```

Python

```
while True:
    n = raw_input("Please enter 'hello':")
    if n.strip() == 'hello':
        break
```

do... while loop

C / C++ /
JAVA

```
do
{
    statement(s);
}
while( condition );
```

Python

do... while loops are ugly. Instead ...

```
while True:
    n = raw_input("Please enter 'hello':")
    if n.strip() == 'hello':
        break
```