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## Python language Introduction

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# Introduction What is Python?



### **Python**

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. This is a general-purpose language that can be equally well developed system applications with a graphical interface, command line utilities, scientific applications, games, applications for the Web, and much more.

# Introduction What is Python?



- ► Easy to learn
- ► Cross-platform
- ► Open License
- ► Efficiency
- ► Community



Guido van Rossum is a Dutch computer programmer who is best known as the author of the Python programming language. In the Python community, Van Rossum is known as a "Benevolent Dictator For Life" (BDFL), meaning that he continues to oversee the Python development process, making decisions where necessary. He was employed by Google from 2005 until 7 December 2012, where he spent half his time developing the Python language. In January 2013, Van Rossum started working for Dropbox.





### Python 1.0 | January 1994

▶ Python 1.6 - September 5, 2000

#### Python 2.0 | October 16, 2000

Python 2.7 - July 3, 2010

## Python 3.0 | December 3, 2008

▶ Python 3.5 - September 13, 2015

## Introduction Installation



https://www.python.org/downloads/

## Introduction Hello world!



## **Interactive Python**

1 >>> print("Hello, world")



### Interactive Python

1 >>> print("Hello, \_world")

## Script in Python

1 #!/usr/bin/env python3
2 print("Hello,\_world")

## Introduction

Python keywords



## Keywords

False	class	finally	is	return
None	continue	for	lambda	try
True	def	from	nonlocal	while
and	del	global	not	with
as	elif	if	or	yield
assert	else	import	pass	break
	except	in	raise	



### Keywords

False	class	finally	is	return
None	continue	for	lambda	try
True	def	from	nonlocal	while
and	del	global	not	with
as	elif	if	or	yield
assert	else	import	pass	break
	except	in	raise	

## Print all keywords

```
1 >>> import keyword
2 >>> print(keyword.kwlist)
```



#### Indentation

```
if True:
   ____print("True")
   else:
4
5
   print("False")
6
7
8
9
   if True:
   ___print("True")
   print ("Error")
10
   if _True:
11
   ___print("True")
12
   ____print("Error")
```



#### Quotes

```
word = 'word'
sentence = "This_is_a_sentence."
paragraph = """This is a paragraph.
It is made up of multiple lines and sentences."""
Inside_1 = "Quotation_1_'inside'."
Inside_2 = 'Quotation_2_"inside".'
```

## Introduction Comments



#### Comments

```
1 #!/usr/bin/python3
2 # First comment
3 print ("Hello, Python!") # second comment
```



## Type of variables

```
#!/usr/bin/python3
counter = 100
miles = 1000.0
name = "John"
names = ["John", "Alex"]

print(counter, type(counter))
print(miles, type(miles))
print(name, type(name))
print(names, type(names))
```



#### Questions?

#### Contacts

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