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Python language Introduction

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Introduction

- What is Python?

- History of Python

- Versions

- Installation

- Hello world!

- Python keywords

- Indentation is very important!

- Quotes

- Comments

- Type of variables

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

Introduction

History of Python



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



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



Interactive Python

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

Introduction

Hello world!



Interactive Python

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

Script in Python

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



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
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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)
```

Introduction

Indentation is very important!



Indentation

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



Quotes

```
1 word = 'word'
2 sentence = "This_is_a_sentence."
3 paragraph = """This_is_a_paragraph.
4 It_is_made_up_of_multiple_lines_and_sentences."""
5 Inside_1 = "Quotation_1_'inside'."
6 Inside_2 = 'Quotation_2_"inside".'
```



Comments

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



Type of variables

```
1  #!/usr/bin/python3
2  counter = 100
3  miles = 1000.0
4  name = "John"
5  names = ["John", "Alex"]
6
7
8  print(counter, type(counter))
9  print(miles, type(miles))
10 print(name, type(name))
11 print(names, type(names))
```




Questions?

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