

KARIBU PYCON TANZANIA

The 3rd annual python language conference.

For professionals, entrepreneurs, scientists and students in Tanzania, organized by the tech-community to foster collaboration and advancement of technology.

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Python 101

Python is the language of the Python Interpreter and those who can converse with it. An individual who can speak Python is known as a Pythonista. It is a very uncommon skill, and may be hereditary. Nearly all known Pythonistas use software initially developed by Guido van Rossum.



This is



- Other Programming Languages
 - C
 - PHP
 - HTML & CSS
 - Scratch
- Python Uses
- Lots of **hacking** through out the hackathon!

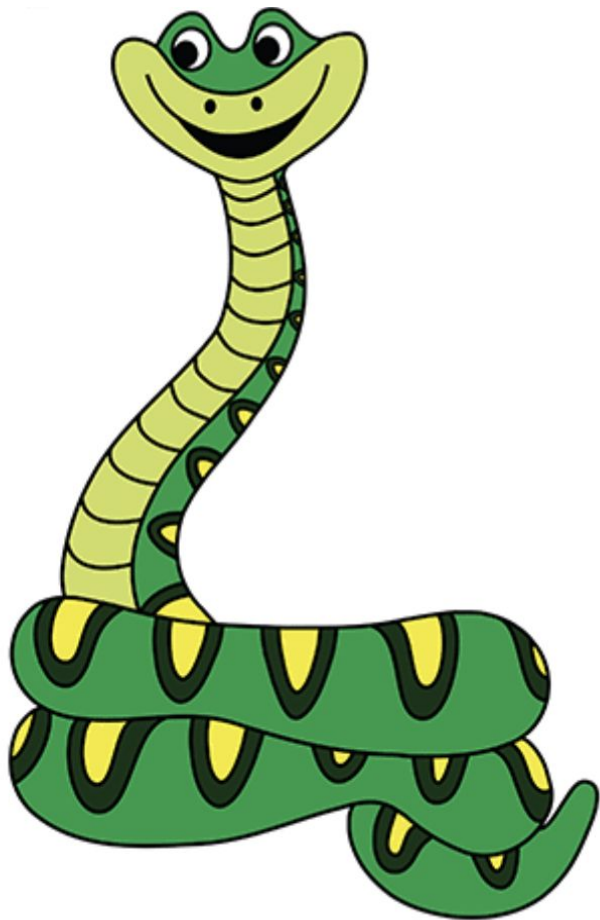
Where to get Python

Download

<https://www.python.org>

Online Interpreter

<https://bit.ly/3lvhwg7>



Installation

Download the latest version for macOS

Download Python 3.9.7

Looking for Python with a different OS? Python for [Windows](#),
[Linux/UNIX](#), [macOS](#), [Other](#)

Want to help test development versions of Python? [Prereleases](#),
[Docker images](#)

Looking for Python 2.7? See below for specific releases

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

Common Features

Open Source (free for use by everyone)

Simple

Interpreted

Portable

So many many many Libraries

What Python is used for

Artificial Intelligence (AI)

Desktop Applications (PyQT, Tkinter, Kivy)

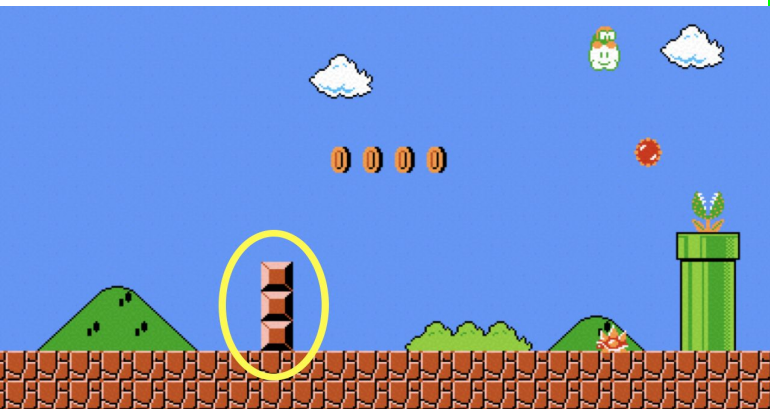
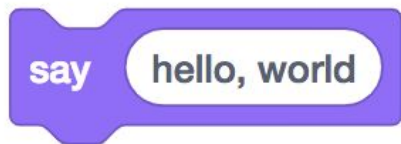
Automation (SEACOM Global Network Infrastructure)

Web Development (Django, Flask Frameworks)

Data Sciences & Machine Learning

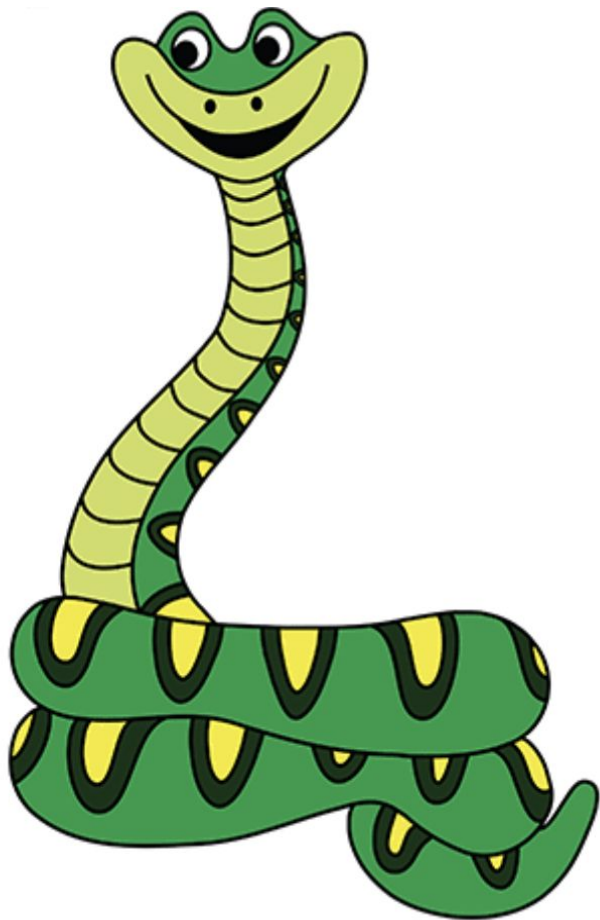
16 Famous Companies that uses PYTHON





Python Simplicity

```
print ("python is simple")
```



Python's Hello World

```
print ("hello, world! ")
```

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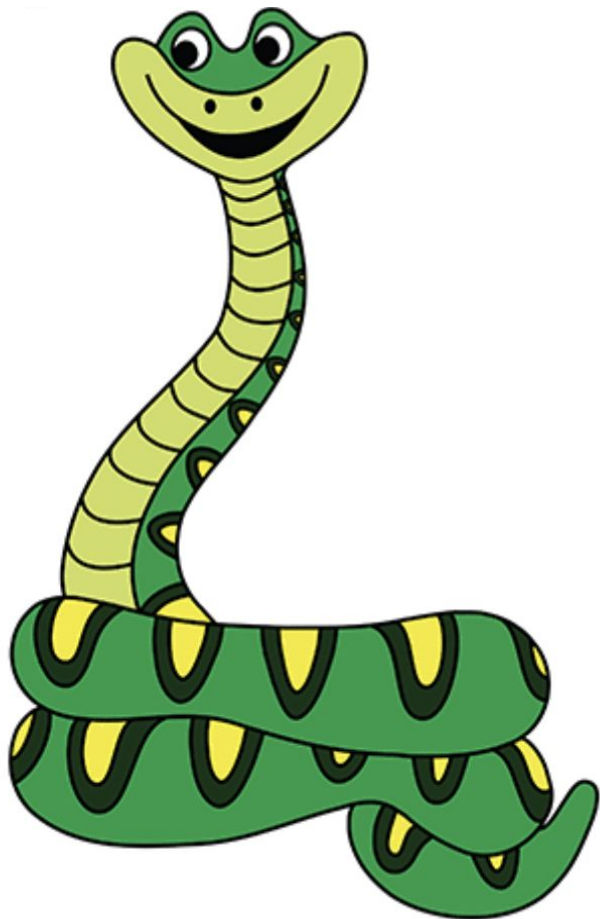
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Runnig a Python App

```
python3 app.py
```



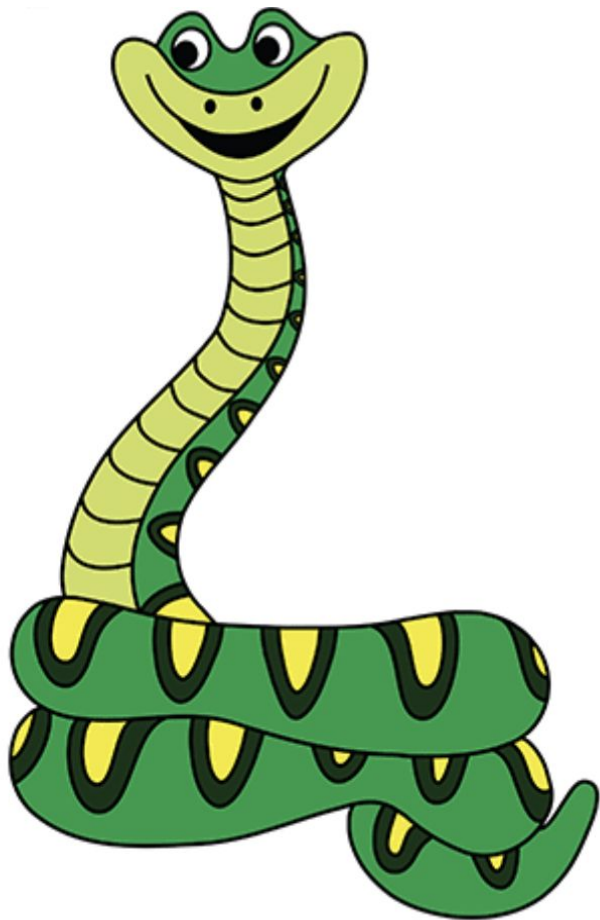
Python Comments

Single line comment

'''

Multiline comment
using docstring

'''

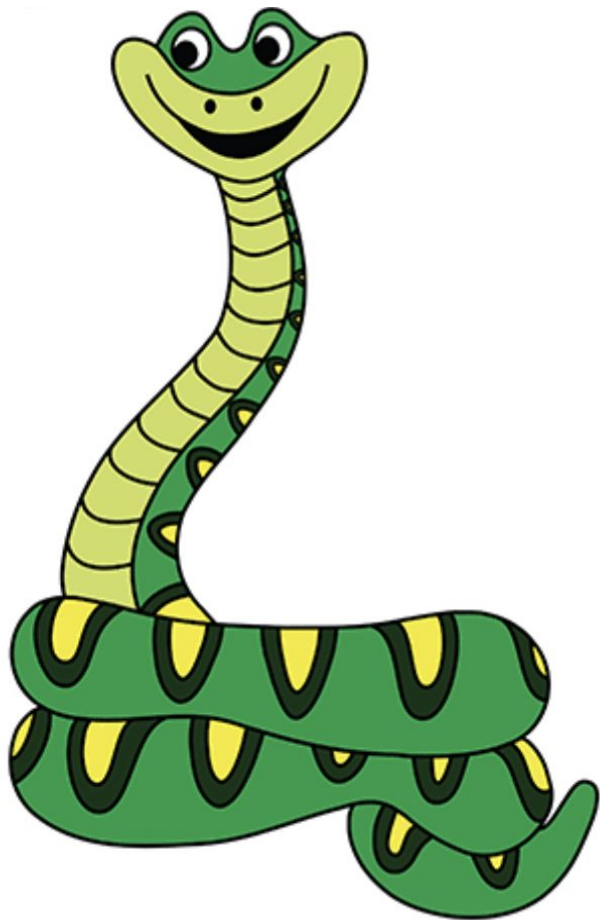


Python Data Types

Strings

```
language = "swahili"
```

```
campus = ' IAA Arusha '
```



Python Data Types

Numbers

year = 2021

number_of_teams = 8

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Arithmetic Operators

Our Code

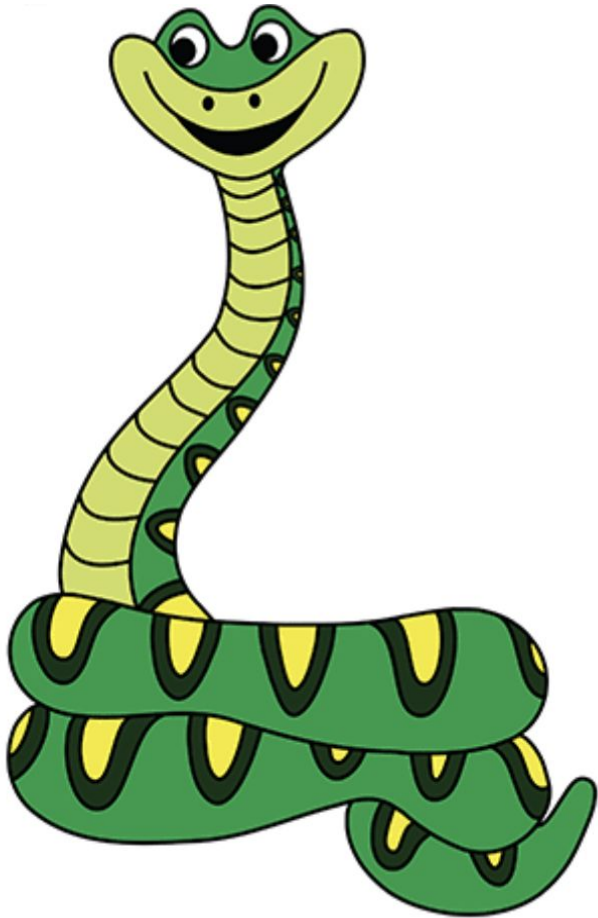
```
print (46 + 2) # 48 (addition)
```

```
print (10 - 9) # 1 (subtraction)
```

```
print (3 * 3) # 9 (multiplication)
```

```
print (84 / 2) # 42.0 (division)
```

```
print (2 ** 8) # 256 (exponent)
```



Python Variables

used to store **data / information / value**

Our Code

```
favourite_food = "chips"
```

```
print(favourite_food)
```


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Python Booleans

Our Code

```
t = True
```

```
f = False
```

```
if t is True and f is False:  
    print("YEY")
```

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Python Lists

Our Code

You can store any data type inside **LISTS**

```
multiple_types = [ True, 3.7, "Python" ]
```

```
favourite_foods = ["rice", "pizza", "chips"]
```

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Python Tuples

Our Code

```
tuple = ('ada','loveless', "teensAI")
```

```
Date_Tuple = ('2nd', 10, 2021)
```

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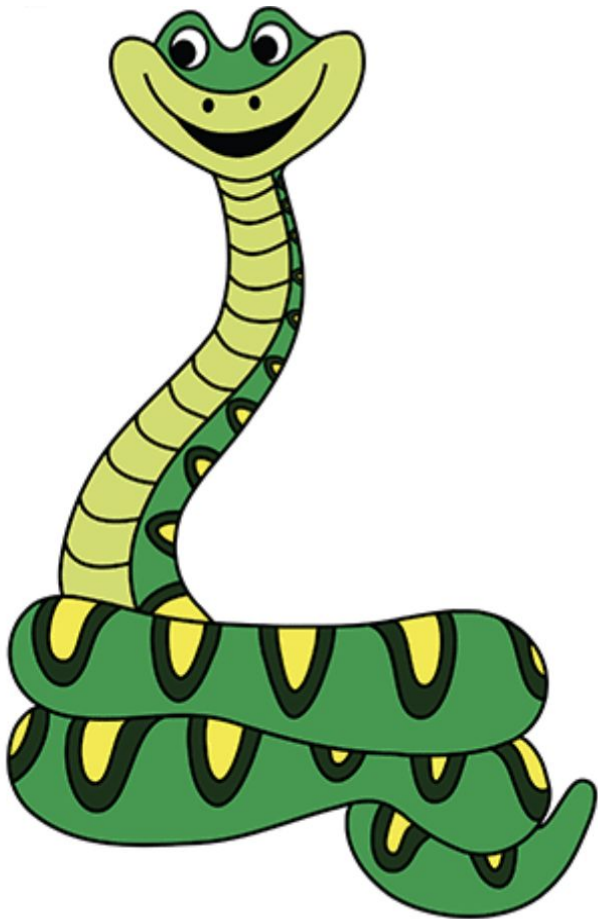
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Python Dictionaries

Our Code

```
Full_Names = { 'FirstName' : 'IAA', 'LastName' : 'Arusha' }
```

```
Languages = { 'Swahili' : 'Tanzania', 'English' : 'England' }
```



Python Comparisons

==

!=

<

>

<=

>=

Our Code

```
age = 18
if age >= 18:
    print("You can drive a car")
elif age >= 16:
    print("You can not drive a car")
else:
    print("You can ride a bike :-)")
```



"Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit..."

Mama S.

The **SKY** is the
beginning !



Champions Python Language