

Org. De Lenguajes y Compiladores 1

LABORATORIO 1
JUNIO 2021



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- [OLC1]*DUDA*
- Horario: 3:00 – 5:00PM

Ponderación del Laboratorio

- Proyecto Único(2 Fases)





ÉXITOS EN EL CURSO!



Python

INTRODUCCIÓN AL UN POTENTE
LENGUAJE

¿Qué es Python?

LENGUAJE DE PROGRAMACIÓN

- Multiplataforma
- Sencillo
- Gratuito

ORIENTADO A OBJETOS

- Infinidad de librerías para cualquier uso.
- Interpretado
- Auge




```
public class
SumaNumeros {
public static void main(
String[] args ) {
int n1, n2, suma;
n1 = 3;
n2 = 2;
suma = n1 + n2;
System.out.println( "La
suma de " + n1 + " más " +
n2 + " es " + suma + "." );
}
}
```



```
a = 5 + 3
print(a)
```

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```
# Python 3: List comprehension
>>> fruits = ['Banana', 'Apple', 'Lime']
>>> loud_fruits = [fruit.upper() for fruit in fruits]
>>> print(loud_fruits)
['BANANA', 'APPLE', 'LIME']

# List and the enumerate function
>>> list(enumerate(fruits))
[(0, 'Banana'), (1, 'Apple'), (2, 'Lime')]
```

Launch Interactive Shell

Compound Data Types

Lists (known as arrays in other languages) are one of the compound data types that Python understands. Lists can be indexed, sliced and manipulated with other built-in functions. [More about lists in Python 3](#)

12345

Python is a programming language that lets you work quickly and integrate systems more effectively. [>>> Learn More](#)

Get Started

Whether you're new to programming or an experienced

Download

Python source code and installers are available for download for all

Docs

Documentation for Python's standard library, along with


Jobs

Looking for work or have a Python related position that you're trying to

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

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```
# Python 3: Fib
>>> def fib(n):
>>>     a, b =
>>>     while a
>>>     pri
>>>     print()
>>>     print(a,
>>>     fib(1000)
0 1 1 2 3 5 8 1
```

All releases

Source code

Windows

Mac OS X

Other Platforms

License

Alternative Implementations

Download for Windows

Python 3.9.5

Note that Python 3.9+ cannot be used on Windows 7 or earlier.


Not the OS you are looking for? Python can be used on many operating systems and environments.

View the full list of downloads.

Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)


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Python source code and installers are available for download for all versions!

Latest: Python 3.9.5

Docs

Documentation for Python's standard library, along with tutorials and guides, are available online.

docs.python.org

Jobs

Looking for work or have a Python related position that you're trying to hire for? Our **relaunched community-run job board** is the place to go.

jobs.python.org

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

TKINTER

Es la interfaz estándar que posee Python basada en Tk GUI.

Utilizada para realizar aplicaciones locales en Python que necesitan de una interfaz gráfica para su manejo.

Componentes principales:

- Buttons
- Labels
- Frames
- FileDialog
- ScrolledText

Gracias por su atención!

Links de referencia:

- Colores:
- <http://www.science.smith.edu/dftwiki/index.php/File:TkInterColorCharts.png>
- Python:
- <https://www.python.org/>
- Curso Python:
- <https://www.sololearn.com/Play/Python#>
- Tkinter con Clases:
- https://www.youtube.com/watch?v=IYHJRnVOFlw&list=PL6gx4Cwl9DGBwibXFtPtflztSNPGuIB_d&index=8