



LENGUAJE DE PROGRAMACION PYTHON



¿QUE ES PYTHON?

PYTHON ES UN LENGUAJE DE PROGRAMACION CUYA FILOSOFIA HACE HINCAPIE EN UNA SINTAXIS QUE FAVORESCA UN CODIGO LEGIBLE.

¿CUANDO SE CREO?

PYTHON FUE CREADO A FINALES DE LOS '80 POR GUIDO VAN ROSSUM EN LOS PAISES BAJOS, COMO UN SUCESOR DEL LENGUAJE ABC.



COMPARACIONES DE SINTAXIS CON OTROS LENGUAJES DE PROGRAMACION

```
1  ORG 100h
2
3  jmp start
4
5  msg:      db  "Hola Mundo!",0Dh,0Ah, 24h
6
7  start:    mov     dx, msg
8           mov     ah, 09h
9           int     21h
10
11          mov     ah, 0
12          int     16h
13
14  ret
```

COMPARACIONES DE SINTAXIS CON OTROS LENGUAJES DE PROGRAMACION

```
1 public class Hola
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Hola Mundo!");
6     }
7 }
```

COMPARACIONES DE SINTAXIS CON OTROS LENGUAJES DE PROGRAMACION

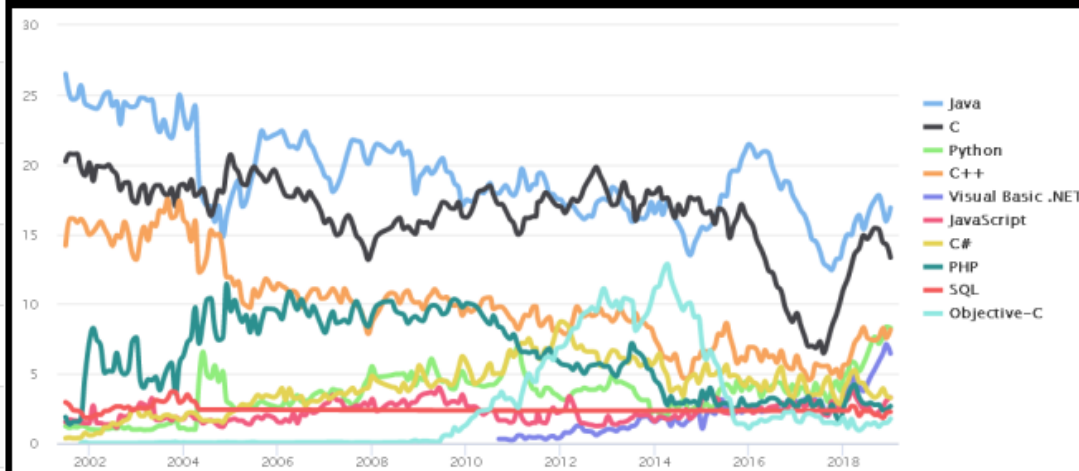
```
1 #include <iostream.h>
2 void main()
3 {
4     cout<<"Hola mundo!";
5 }
```

COMPARACIONES DE SINTAXIS CON OTROS LENGUAJES DE PROGRAMACION

```
1 print ("Hola mundo!")
```

TIOBE Index for January 2019

Jan 2019	Jan 2018	Change	Programming Language	Ratings	Change
1	1		Java	16.904%	+2.69%
2	2		C	13.337%	+2.30%
3	4	▲	Python	8.294%	+3.62%
4	3	▼	C++	8.158%	+2.55%
5	7	▲	Visual Basic .NET	6.459%	+3.20%
6	6		JavaScript	3.302%	-0.16%
7	5	▼	C#	3.284%	-0.47%
8	9	▲	PHP	2.680%	+0.15%
9	-	▲▲	SQL	2.277%	+2.28%
10	16	▲▲	Objective-C	1.781%	-0.08%



The Top Programming Languages 2018



Web

























Mobile



Enterprise



Embedded

Language Rank	Types	Spectrum Ranking
1. Python	  	100.0
2. C++	  	99.7
3. Java	  	97.5
4. C	  	96.7
5. C#	  	89.4
6. PHP		84.9
7. R		82.9
8. JavaScript	 	82.6
9. Go	 	76.4
10. Assembly		74.1

HARDWARE PARA PYTHON

nodeMCU

13 Puertos GPIO digitales

1 puerto ADC

ESP82266 Wi-Fi SoC



HARDWARE PARA PYTHON

Raspberry Pi

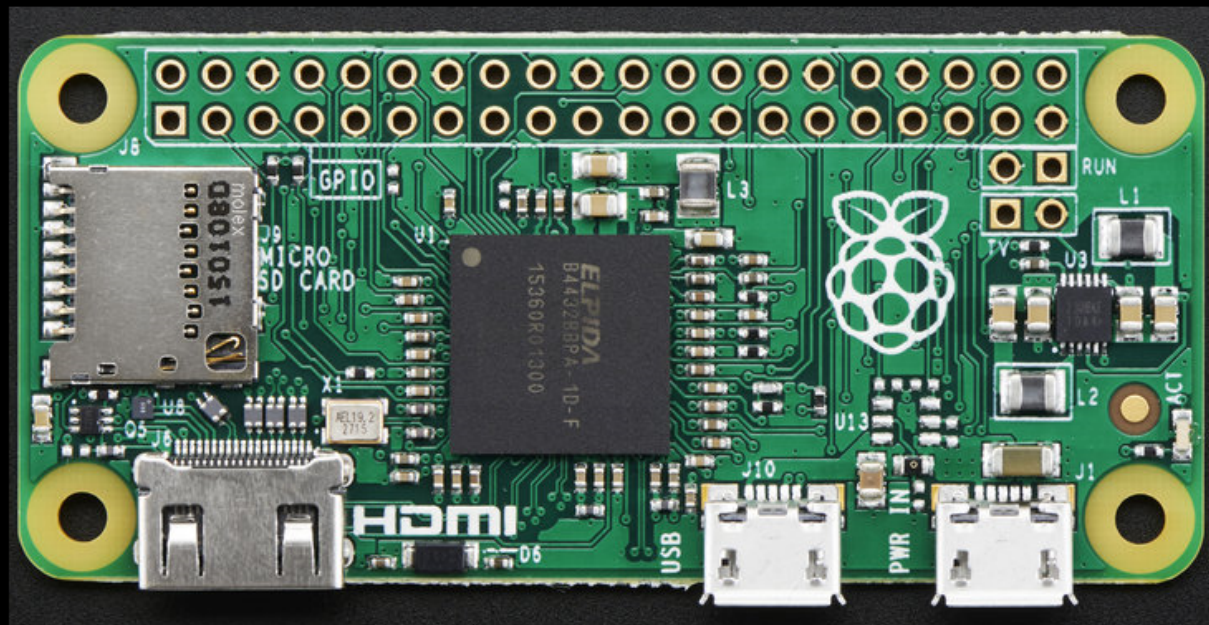
Frecuencia de trabajo de 1GHz

2 puerto micro USB

17 Puertos GPIO digitales

Wifi 802.11n

Bluetooth 4.1



HARDWARE PARA PYTHON

μPYTHON

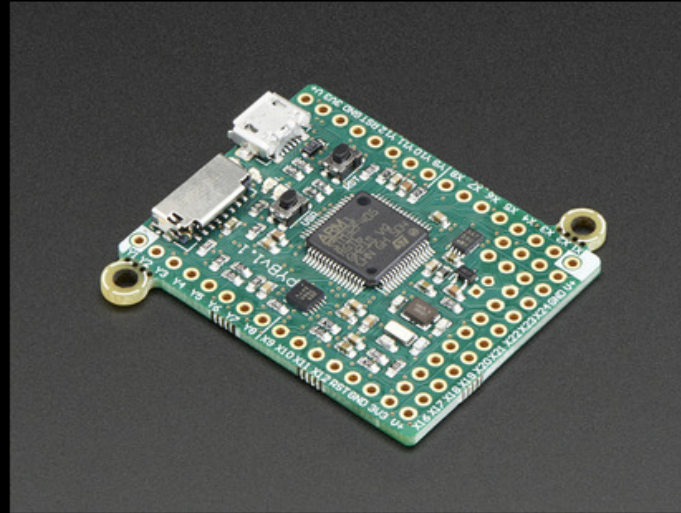
Frecuencia de trabajo de 168 MHz

**1 Puerto micro USB para alimentación
y puerto serial**

29 Puertos GPIO digitales

3 Puertos ADC de 12 bits

2 Puertos DAC de 12 bits



¿QUE VERSION DE PYTHON ELEGIR?



¿QUE VERSION DE PYTHON ELEGIR?

pythonclock.org

Python 2.7 will retire in...

0

Years

11

Months

25

Days

21

Hours

31

Minutes

49

Seconds

[Enable Guide Mode](#) [Hit?](#)

What's all this, then?

Python 2.7 [will not be maintained past 2020](#). Originally, there was no official date. Recently, that date has been updated to [January 1, 2020](#). This clock has been updated accordingly. My original idea was to throw a Python 2 Celebration of Life party at PyCon 2020, to celebrate everything Python 2 did for us. That idea still stands. (If this sounds interesting to you, email pythonclockorg@gmail.com).

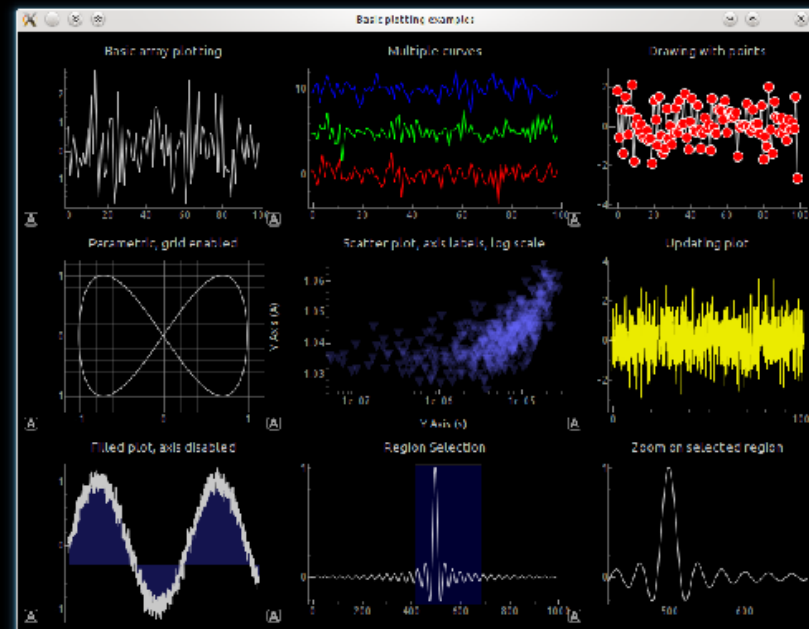
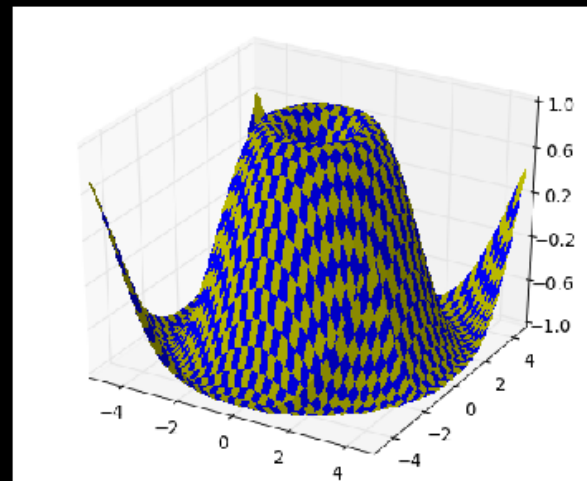
Python 2, thank you for your years of faithful service.

Python 3, your time is now.

How do I get started?

If the code you care about is still on Python 2, that's totally understandable. Most of PyPI's popular packages now [work on Python 2 and 3](#), and more are being added every day. Additionally, a number of critical Python projects have [pledged to stop supporting Python 2 soon](#). To ease the transition, the [official porting guide](#) has advice for running Python 2 code in Python 3.

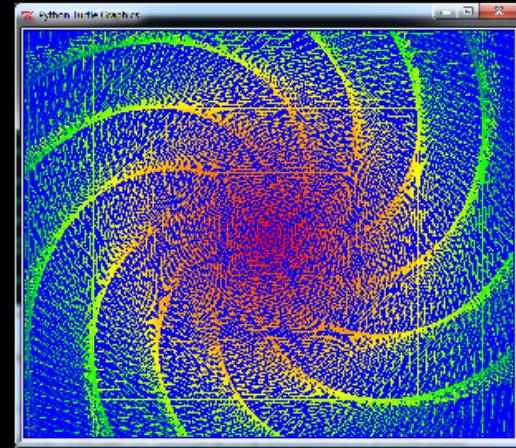
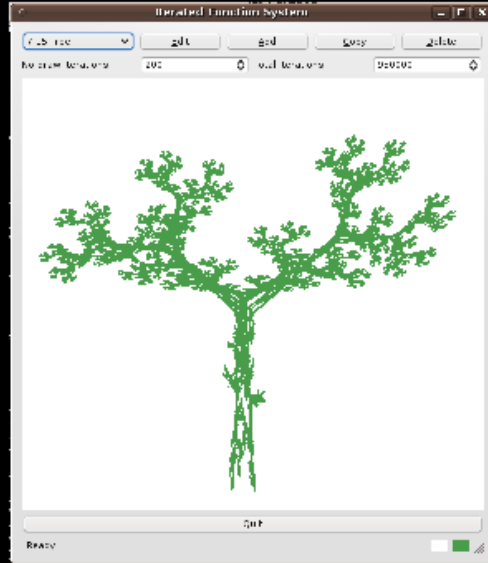
LIBRERIAS EN PYTHON



LIBRERIAS EN PYTHON



TK



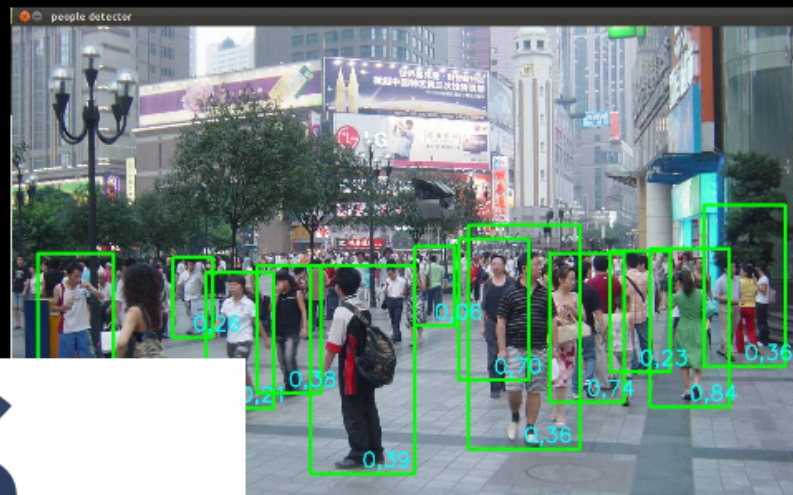
Expresiones Regulares

7%

Ingrese la cadena: Limpiar

Correo Electronico	Formato de Fecha	Direccion Personal
Identificador de PHP	Numero Real	Telefono
Identificador de JAVA	Numero Entero	Nombre Completo

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ROS



Open Source Robotics Foundation

