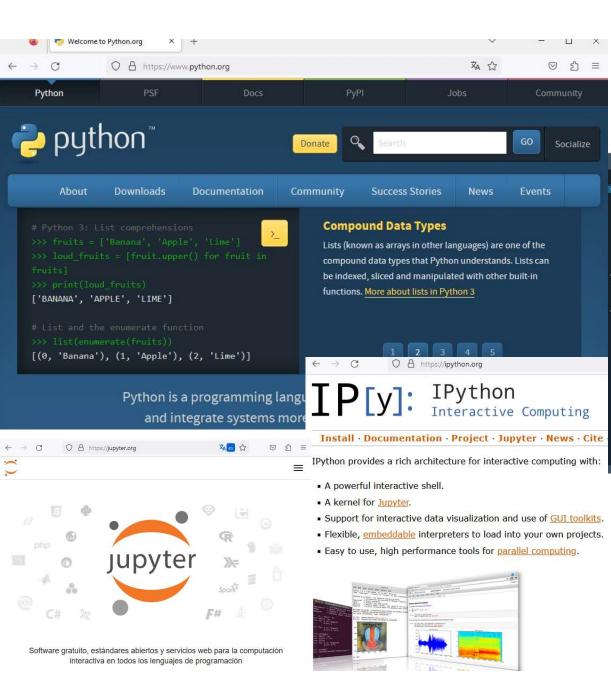


# Programación. Python Las herramientas

Cristóbal Pareja Flores 😮

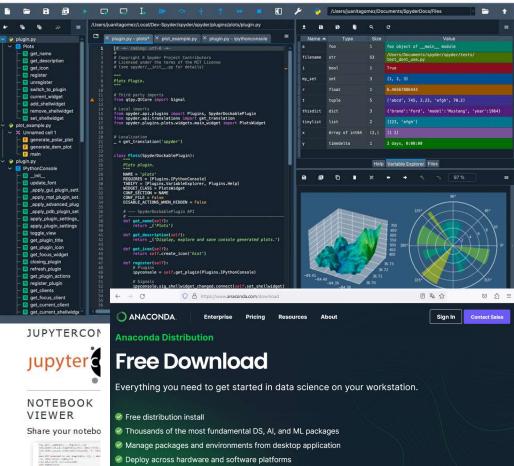




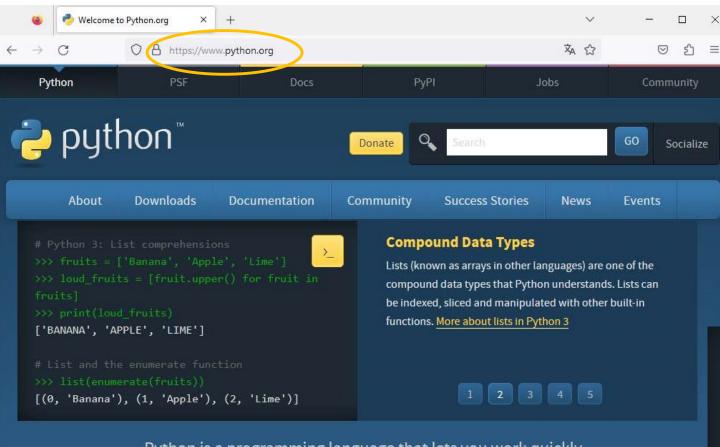
The Scientific Python Development Environment

> Hey there! Do you have any questions? I can help get you

connected to your dedicated



Code in the Cloud



Python is a programming language that lets you work quickly and integrate systems more effectively. >>>> Learn More

```
(b) Get Started
```

Whether you're new to programming or an experienced developer, it's easy to learn and use Python.



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

Docs

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

Jobs

Looking for work or have a Python related position that you're trying to hire for? Our relaunched community-run

```
# Python 3: Fibonacci series up to n
>>> def fib(n):
>>> a, b = 0, 1
>>> while a < n:
>>> print(a, end=' ')
>>> print()
>>> fib(1000)
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987
```

```
# For loop on a list
>>> numbers = [2, 4, 6, 8]
>>> product = 1
>>> for number in numbers:
... product = product * number
...
>>> print('The product is:', product)
The product is: 384
```

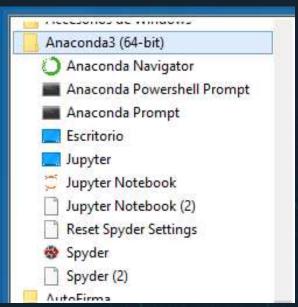
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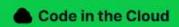
### **Anaconda Distribution**

## **Free Download**

Everything you need to get started in data science on you

- Free distribution install
- Thousands of the most fundamental DS, AI, and ML packages
- Manage packages and environments from desktop application
- Deploy across hardware and software platforms







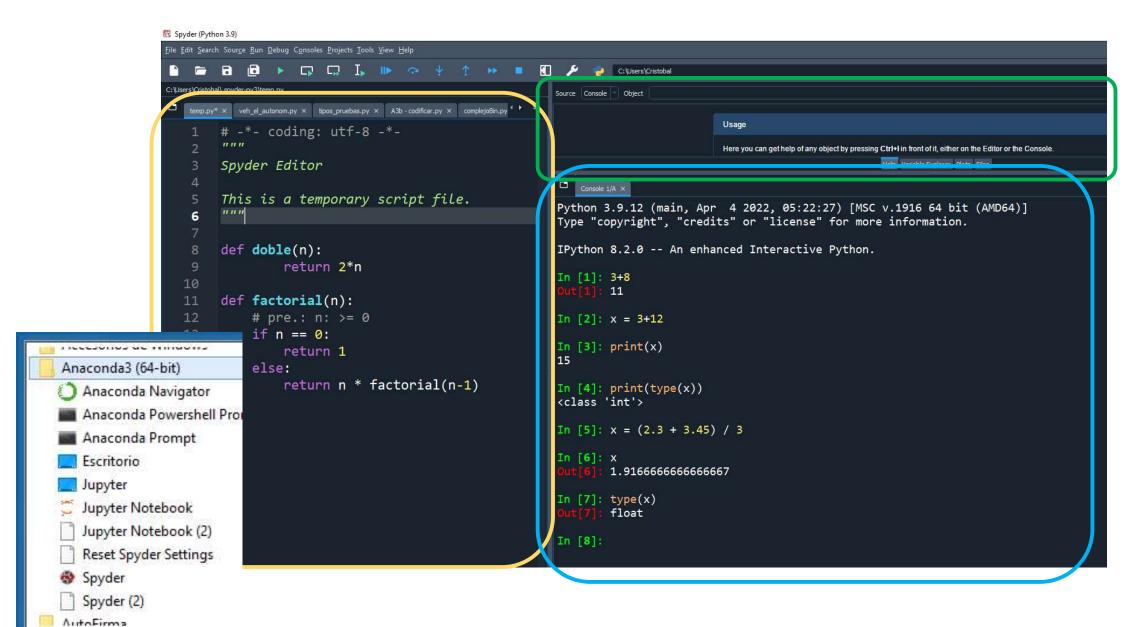
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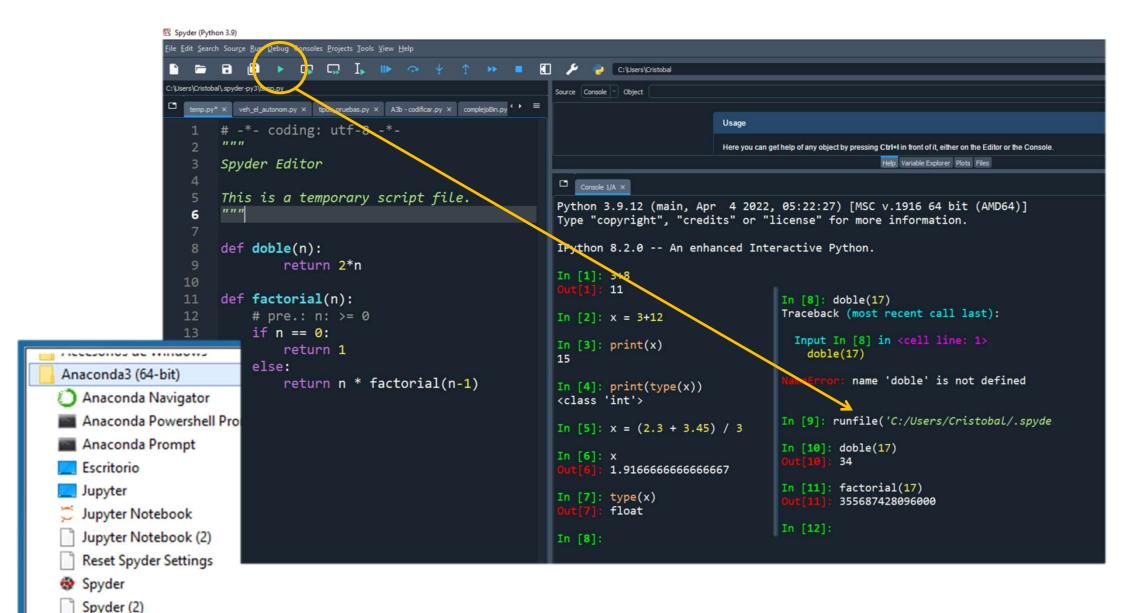


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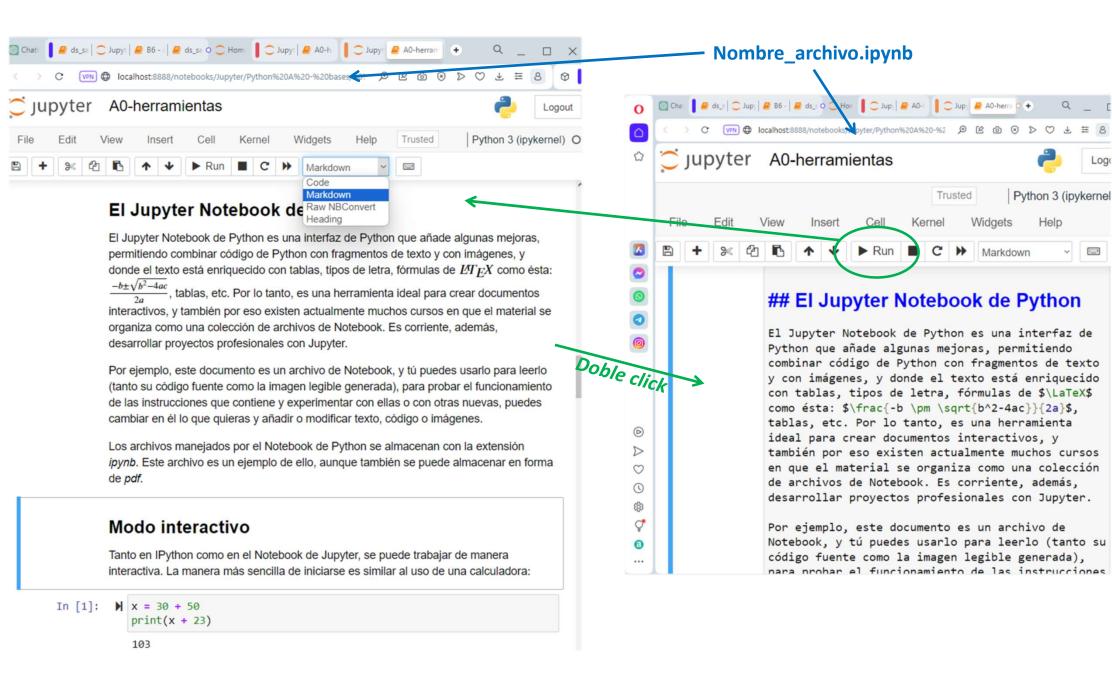
account rep.







AutoFirma



```
In [1]: \mathbf{N} \times = 30 + 50
              print(x + 23)
               103
 In [2]: \mathbf{H} \times = 3 + 5
              print(x)
              V = 2**X
              print(x, " -> ", y)
               8 -> 256

    print(type(x))

 In [3]:
               <class 'int'>
In [4]: \mathbf{N} \times = (5.75 + 6.75 + 9.5 + 10.0) / 4
             print(x)
             print(type(x))
             x = "Python, mi serpiente favorita"
             print(x)
             print(type(x))
             x = ["Cristóbal", 2, 72.0, "91123985"]
             print(x)
             print(type(x))
             8.0
             <class 'float'>
             Python, mi serpiente favorita
             <class 'str'>
             ['Cristóbal', 2, 72.0, '91123985']
             <class 'list'>
```

```
In [5]: H # Cálculo de mi nota media:
            nota media = (5.75 + 6.75 + 9.5 + 10.0) / 4
            print(nota media)
            print(type(nota media))
            # Origen del nombre del lenguaje Python:
            frase = "Python es el nombre de un grupo humorístico, no el de la ser
            print(frase)
            print(type(frase))
            # Mis datos: nombre, núm. de hermanos, peso, teléfono:
            datos cris = ["Cristóbal", 2, 72.0, '91123456']
            print(datos cris)
            print(type(datos cris))
            8.0
            <class 'float'>
            Python es el nombre de un grupo humorístico, no el de la serpiente.
            <class 'str'>
            ['Cristóbal', 2, 72.0, '91123456']
            <class 'list'>
```

```
range(1, 10)
Out[15]: range(1, 10)

list(range (1, 10))
Out[16]: [1, 2, 3, 4, 5, 6, 7, 8, 9]

n = 10

list(range(1, n+1))
Out[18]: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

#### In [3]: print(factorial(500))

```
In [8]: ▶ # 1!, 2!, ..., 5!:
          for k in range(1, 5+1):
              print(k, " -> ", factorial(k))
           print("....")
           for k in [1, 10, 20, 30]:
              print(k, " -> ", factorial(k))
           1 -> 1
           2 -> 2
           3 -> 6
           4 -> 24
           5 -> 120
           1 -> 1
           10 -> 3628800
           20 -> 2432902008176640000
           30 -> 265252859812191058636308480000000
```

```
In [9]:  # Importación de la librería math:
    import math

# y uso de una constante definida en dicha librería:
    print(math.cos(math.pi/3))
```

0.500000000000000001

```
Anaconda Prompt

(base) C:\Users\Cristobal>conda install nltk
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
    current version: 23.7.4
    latest version: 23.9.0

Please update conda by running
    $ conda update -n base -c defaults conda

Or to minimize the number of packages updated during conda update use
    conda install conda=23.9.0

## Package Plan ##
    environment location: C:\Users\Cristobal\anaconda
    added / updated specs:
        - nltk</pre>
```

```
- nltk
The following packages will be downloaded:
   package
                                           build
   openssl-3.0.11
                                       h2bbff1b 2
                                                          7.4 MB
                                           Total:
                                                          7.4 MB
The following packages will be UPDATED:
 openssl
                                         3.0.10-h2bbff1b 2 --> 3.0.11-h2bbff1b 2
Proceed ([y]/n)? y
Downloading and Extracting Packages
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(base) C:\Users\Cristobal>
```

https://www.python.org/

https://ipython.org/

https://www.anaconda.com/

https://jupyter.org/



## Programación. Python Las herramientas de trabajo

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