

# Introducción a Python

Clase #02

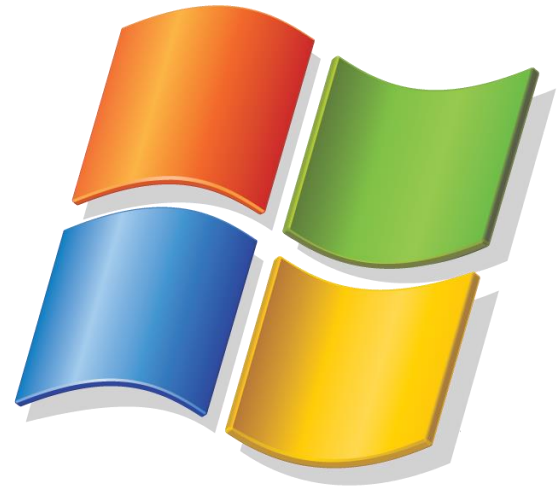
IIC1103 – Introducción a la Programación

Marcos Sepúlveda ([marcos@ing.puc.cl](mailto:marcos@ing.puc.cl))

# Veremos hoy ...

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- ▶ Python
  - Instalación: en Windows y Mac



# Instalación en Windows

► <http://www.python.org>

The screenshot shows the Python.org homepage. A red arrow points from the URL above to the 'Downloads' menu item in the top navigation bar. A blue arrow points from the 'Windows' option in the 'Downloads' dropdown menu to the 'Download for Windows' section. This section features buttons for 'Python 3.5.2' and 'Python 2.7.12'. Below these buttons, a note states: 'Note that Python 3.5+ cannot be used on Windows XP 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.' The footer of the page contains the text: 'Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)'.

python™

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

All releases  
Source code  
Windows  
Mac OS X  
Other Platforms  
License  
Alternative Implementations

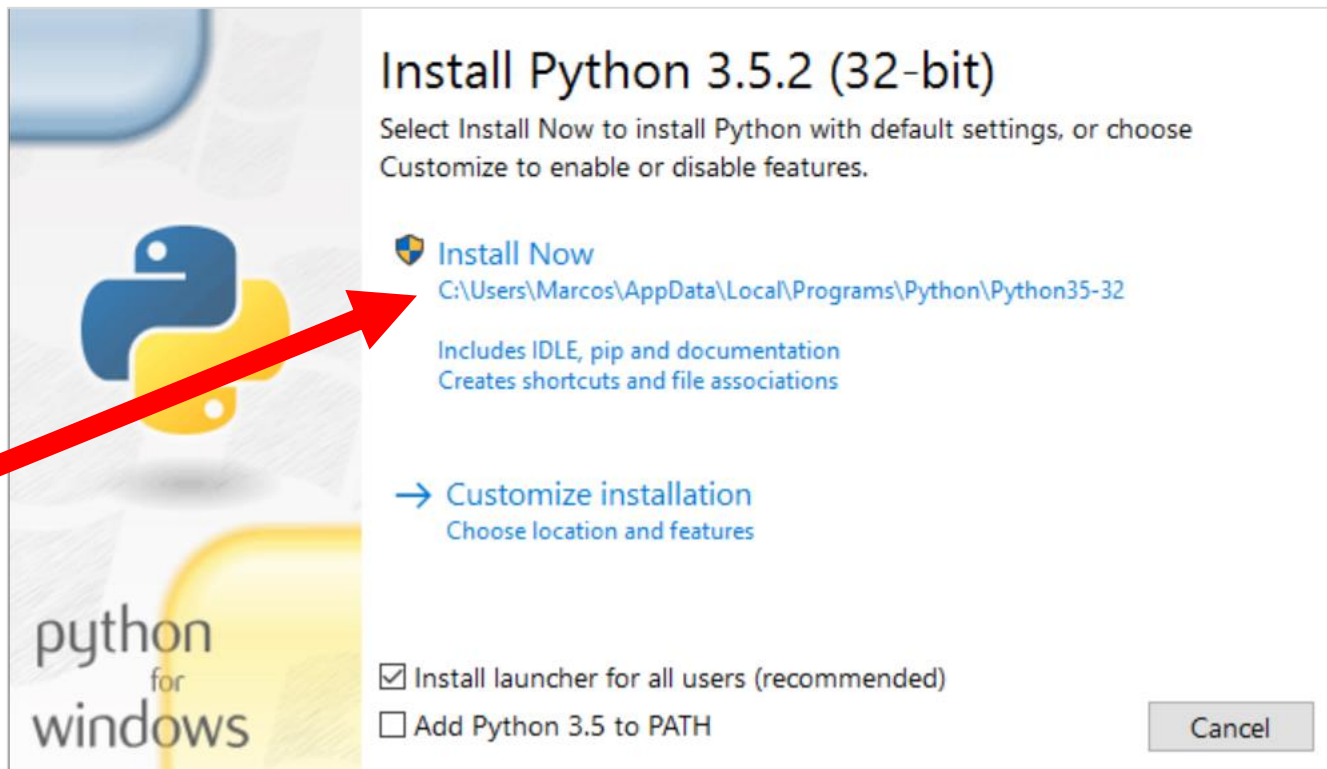
**Download for Windows**

Python 3.5.2 Python 2.7.12

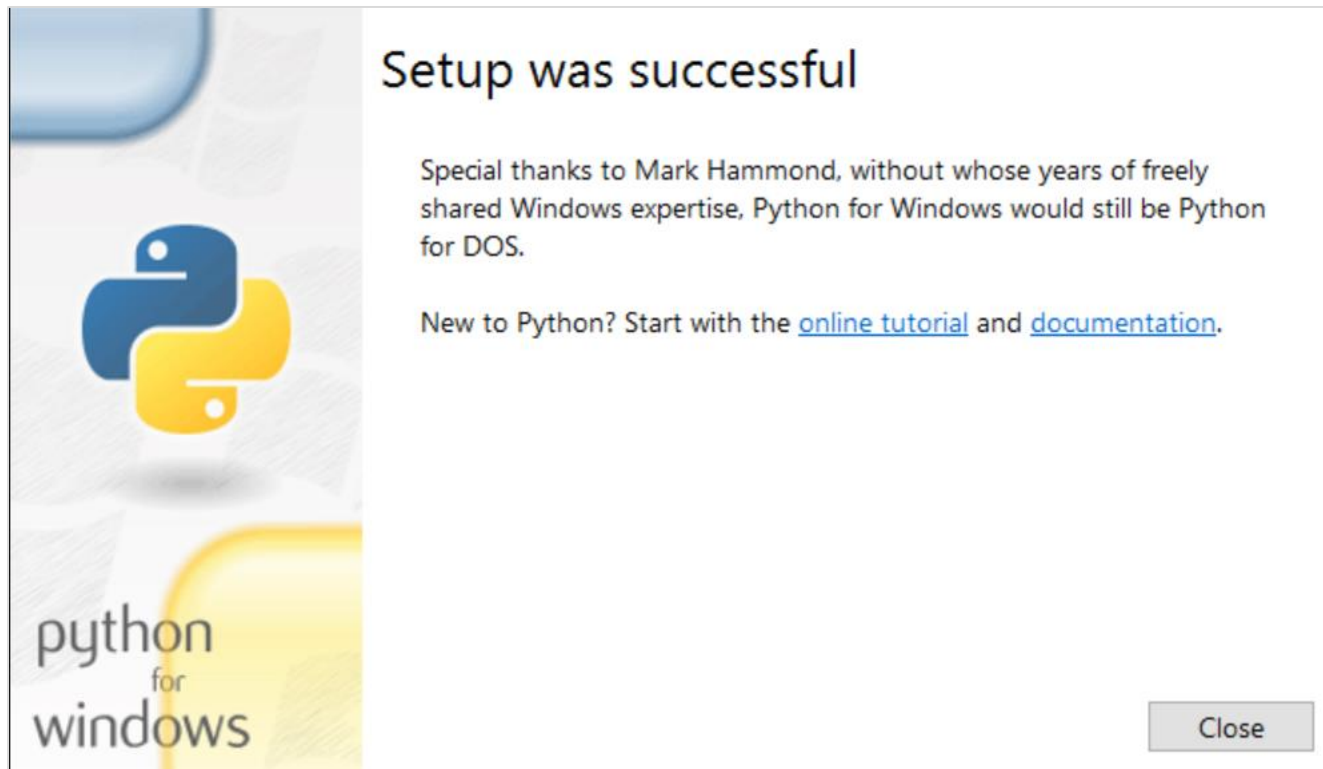
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# Instalación en Windows

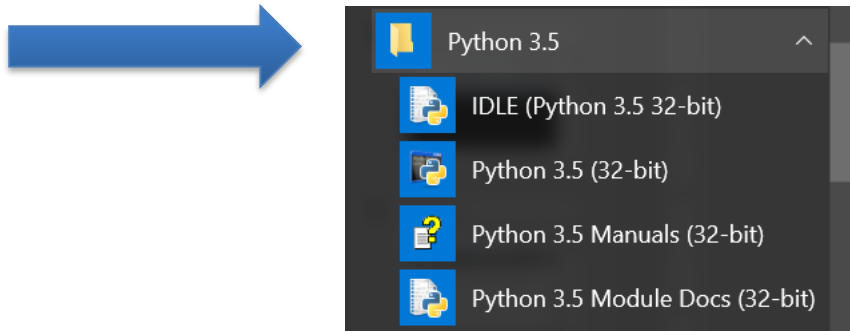


# Instalación en Windows

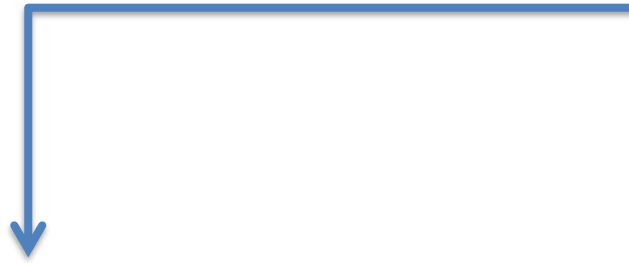
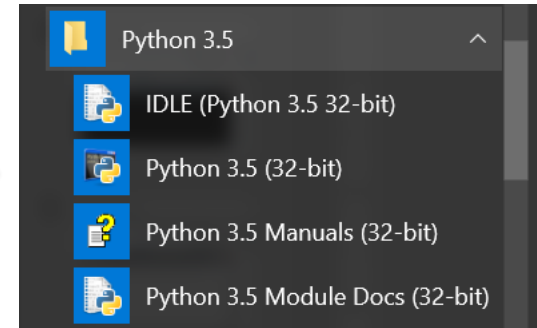


# Instalación en Windows

- ▶ Python aparecerá en el menú de inicio de Windows

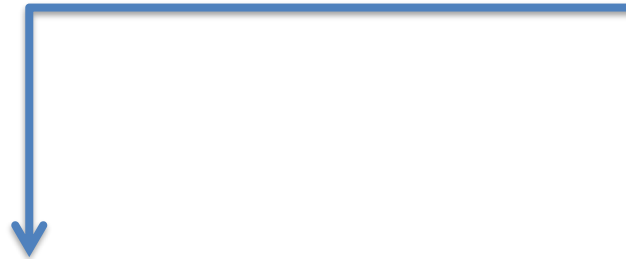


# Instalación en Windows

A screenshot of the Python 3.5 (32-bit) application window. The window title bar says 'Python 3.5 (32-bit)'. The main area is a black command prompt with white text. The text reads: 'Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 25 2016, 22:01:18) [MSC v.1900 32 bit (Intel)] on win32'. Below this, it says 'Type "help", "copyright", "credits" or "license" for more information.' and then ' >>> ' followed by a cursor.



# Instalación en Windows



A screenshot of the 'Python 3.5.2 Shell' window. The window title is 'Python 3.5.2 Shell'. The menu bar includes 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main text area displays the following information: 'Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 25 2016, 22:01:18) [MSC v.1900 32 bit (Intel)] on win32', 'Type "copyright", "credits" or "license()" for more information.', and the prompt '>>> |'. The status bar at the bottom right shows 'Ln: 3 Col: 4'.

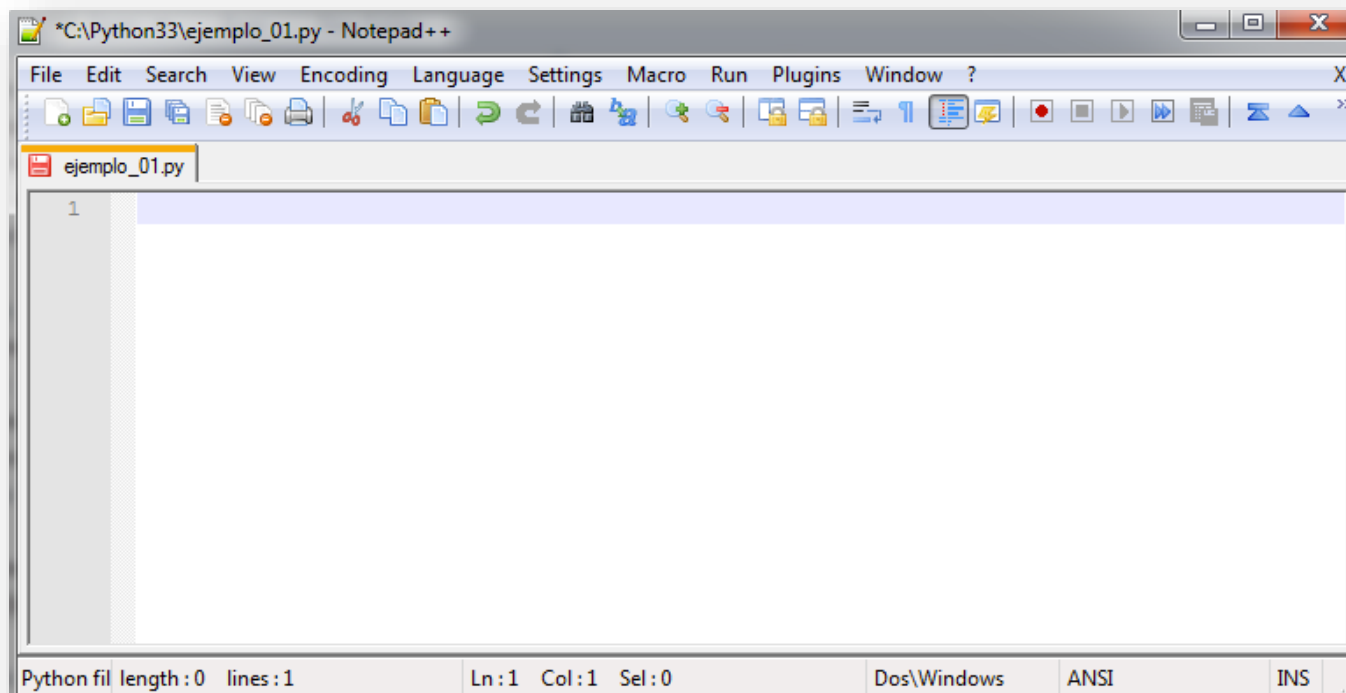
# Instalación en Windows

## Alternativa de editor

Notepad++

**Notepad++** es un buen editor.  
Se puede descargar gratis desde  
el siguiente enlace:

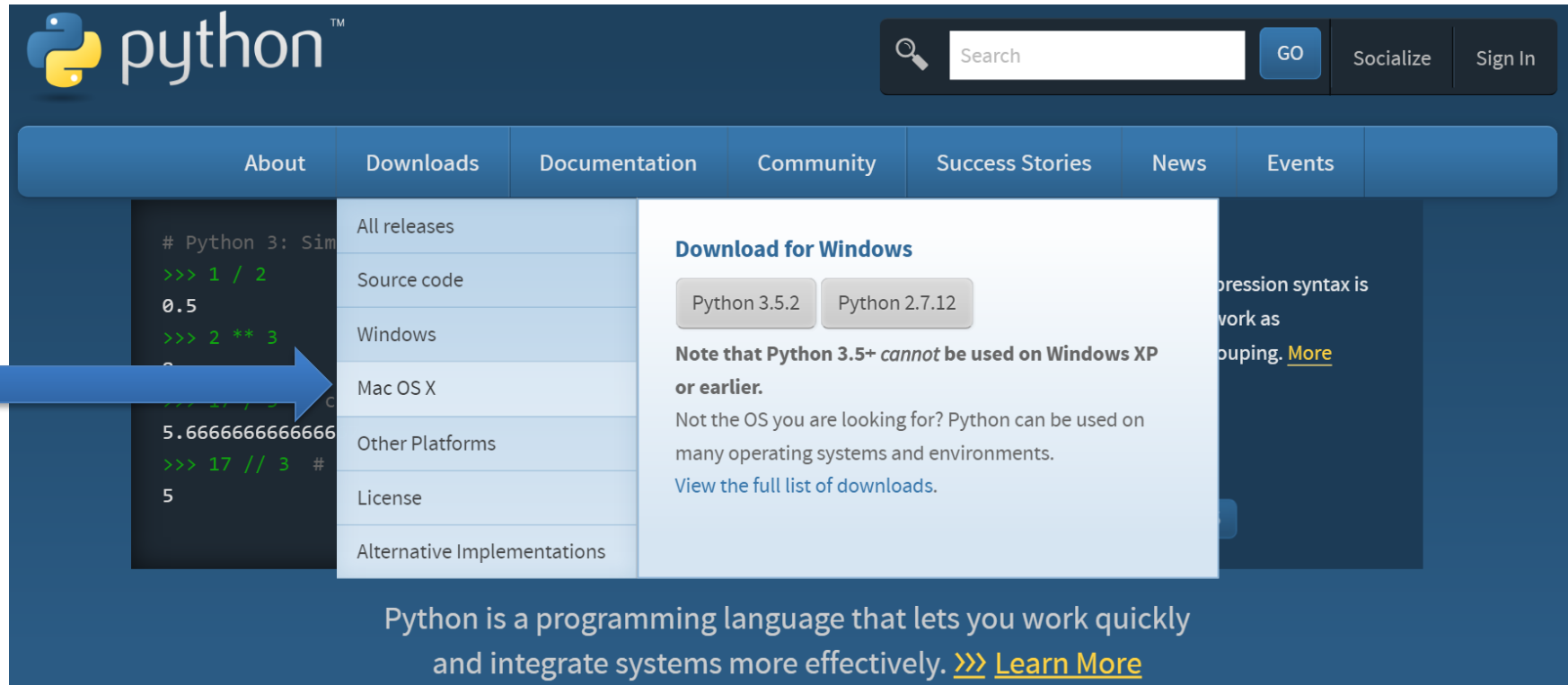
<http://notepad-plus-plus.org/download>





# Instalación en Mac OSX

► <http://www.python.org>



The screenshot shows the Python.org homepage with a dark blue header and a navigation bar. The 'Downloads' menu is open, and a blue arrow points to the 'Mac OS X' option. The 'Download for Windows' section is also visible, showing buttons for Python 3.5.2 and Python 2.7.12. The footer contains the text: 'Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)'.

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**Download for Windows**

Python 3.5.2 Python 2.7.12

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# Instalación en Mac OSX

Python >>> Downloads >>> Mac OS X

## Python Releases for Mac OS X

- [Latest Python 2 Release - Python 2.7.12](#)
- [Latest Python 3 Release - Python 3.5.2](#)



# Instalación en Mac OSX

## Files

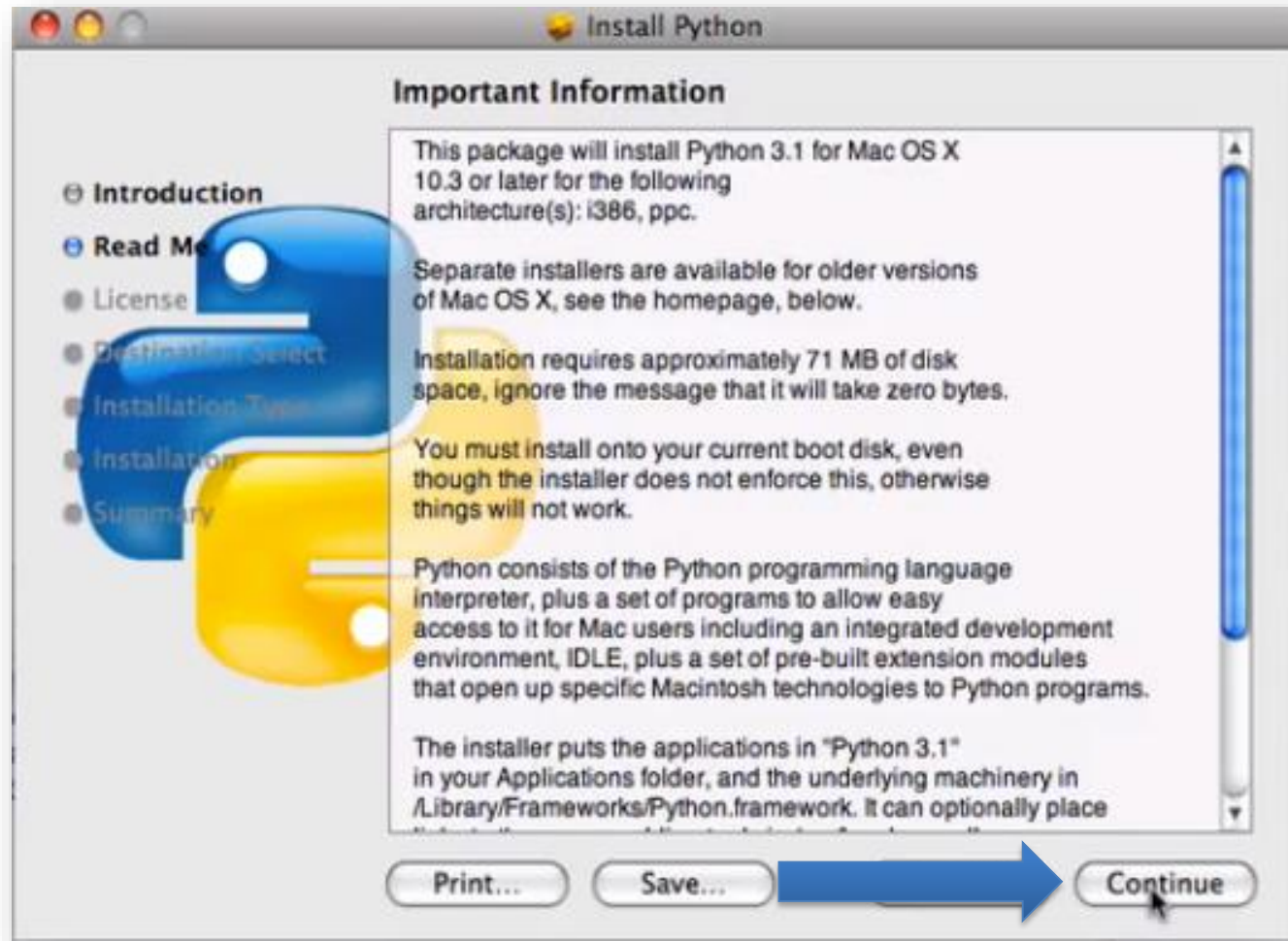
Version	Operating System	Description	MD5 Sum	File Size	GPG
<a href="#">Gzipped source tarball</a>	Source release		3fe8434643a78630c61c6464fe2e7e72	20566643	<a href="#">SIG</a>
<a href="#">XZ compressed source tarball</a>	Source release		8906efbacfdc7c3c9198aeefafd159e	15222676	<a href="#">SIG</a>
<a href="#">Mac OS X 32-bit i386/PPC installer</a>	Mac OS X	for Mac OS X 10.5 and later	5ae81eea42bb6758b6d775ebcaf32eda	26250336	<a href="#">SIG</a>
<a href="#">Mac OS X 64-bit/32-bit installer</a>	Mac OS X	for Mac OS X 10.6 and later	11a9f4fc3f6b93e3ffb26c383822a272	24566858	<a href="#">SIG</a>
<a href="#">Windows help file</a>	Windows		24b95be314f7bad1cc5361ae449adc3d	7777812	<a href="#">SIG</a>
<a href="#">Windows x86-64 embeddable zip file</a>	Windows	for AMD64/EM64T/x64, not Itanium processors	f1c24bb78bd6dd792a73d5ebfbd3b20e	6862200	<a href="#">SIG</a>
<a href="#">Windows x86-64 executable installer</a>	Windows	for AMD64/EM64T/x64, not Itanium processors	4da6dbc8e43e2249a0892d257e977291	30177896	<a href="#">SIG</a>
<a href="#">Windows x86-64 web-based installer</a>	Windows	for AMD64/EM64T/x64, not Itanium processors	c35b6526761a9cde4b6dccab4a3d7c60	970224	<a href="#">SIG</a>
<a href="#">Windows x86 embeddable zip file</a>	Windows		ad637a1db7cf91e344318d55c94ad3ca	6048722	<a href="#">SIG</a>
<a href="#">Windows x86 executable installer</a>	Windows		2ddf428fd8b9c063ba05b5a0c8636c37	29269656	<a href="#">SIG</a>
<a href="#">Windows x86 web-based installer</a>	Windows		aed3ac79b8e2458b84135ecfdca66764	944304	<a href="#">SIG</a>



# Instalación en Mac OSX



# Instalación en Mac OSX

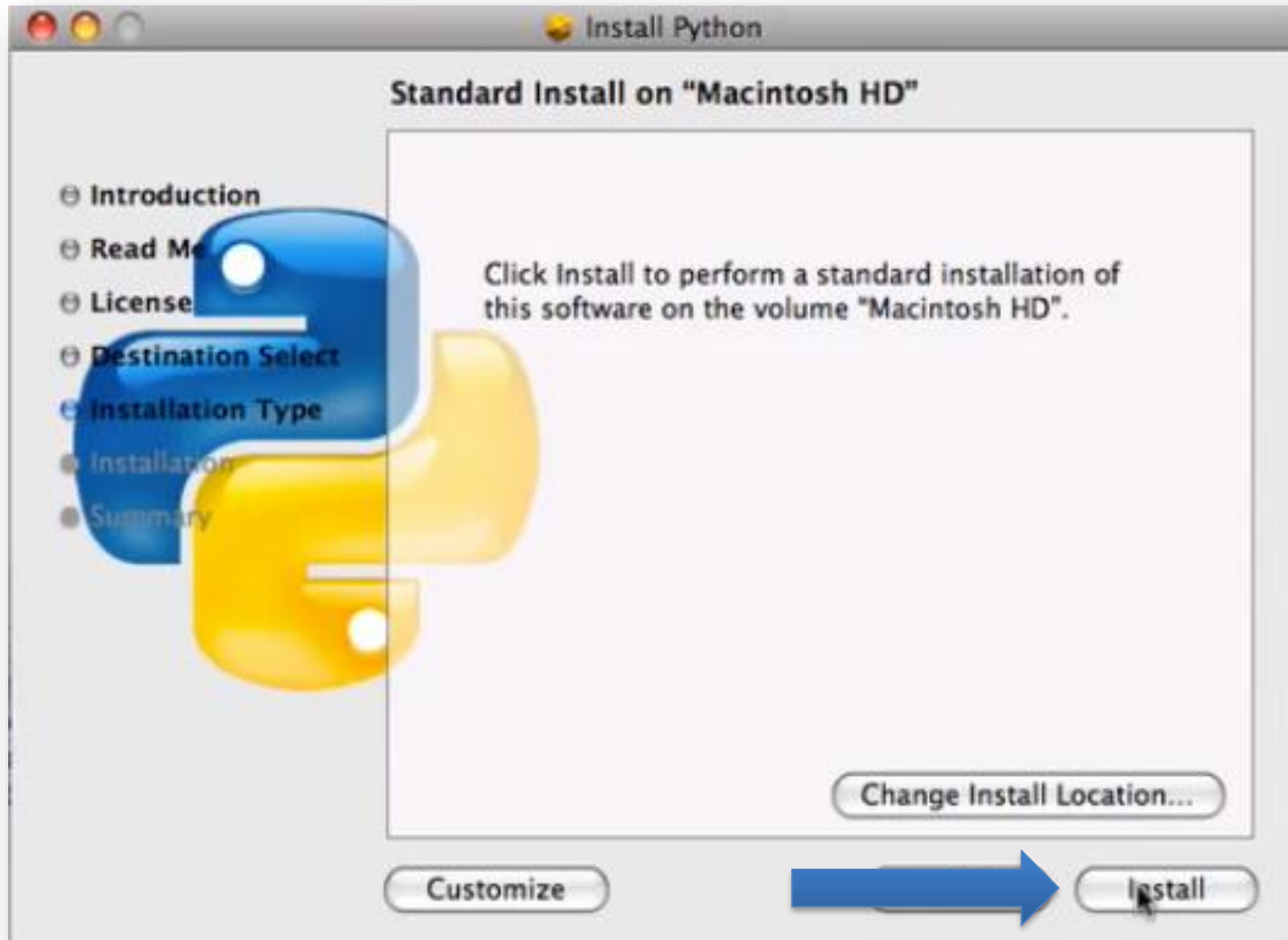




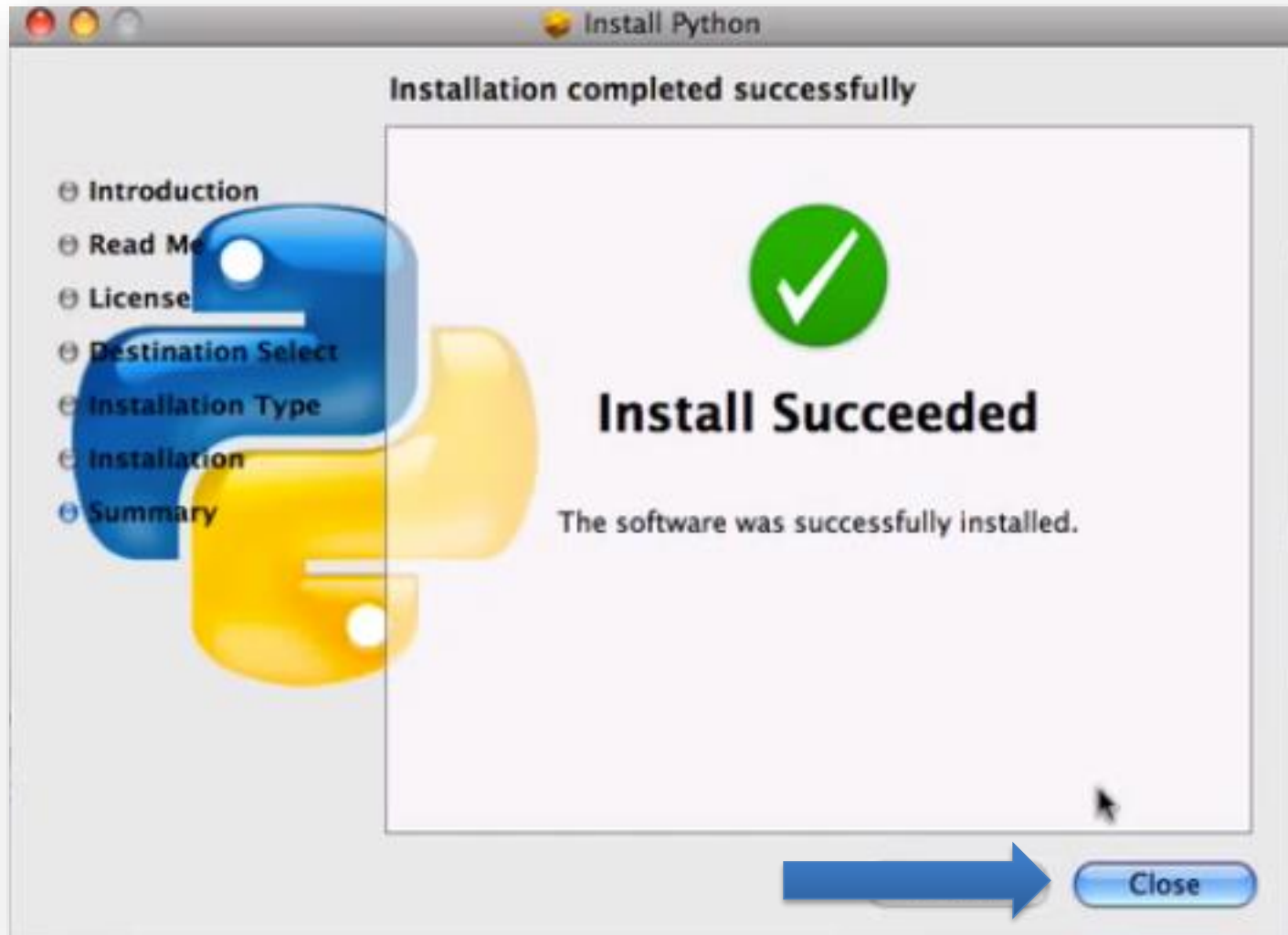
# Instalación en Mac OSX



# Instalación en Mac OSX

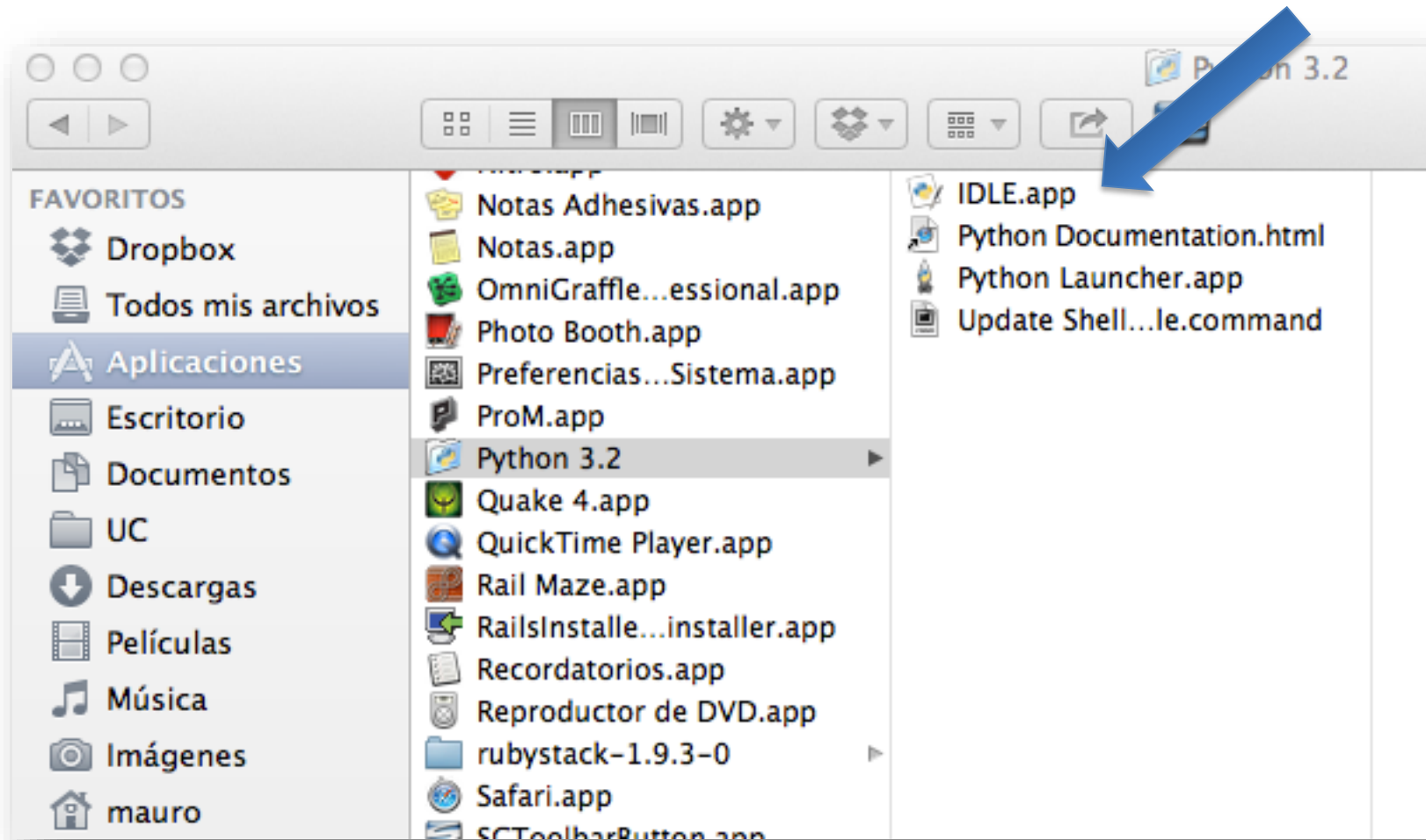


# Instalación en Mac OSX

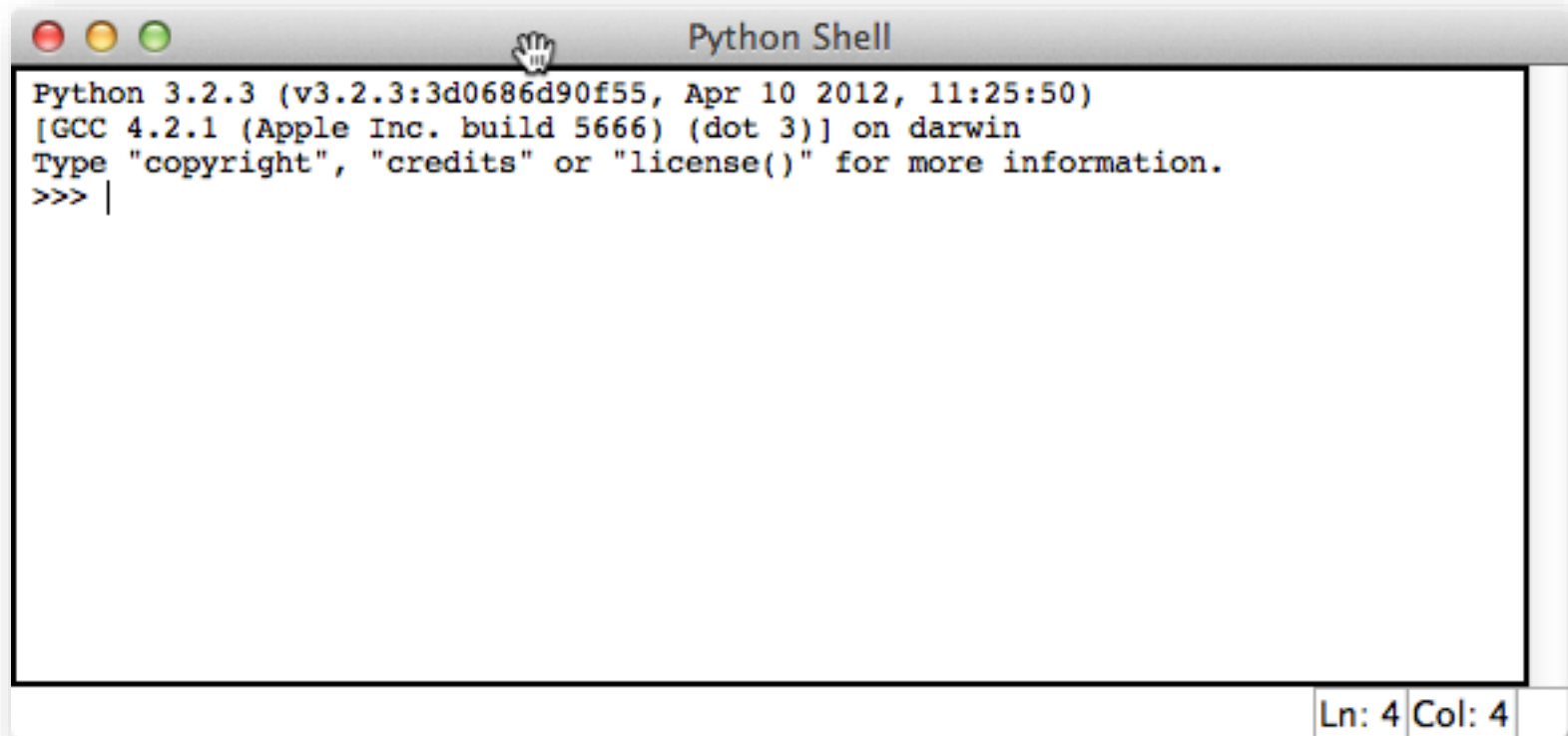


# Instalación en Mac OSX

- ¿Quedó correctamente instalado? Ejecutar IDLE.app para ver el resultado



# Instalación en Mac OSX



```
Python 3.2.3 (v3.2.3:3d0686d90f55, Apr 10 2012, 11:25:50)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more information.
>>> |
```

Ln: 4 Col: 4

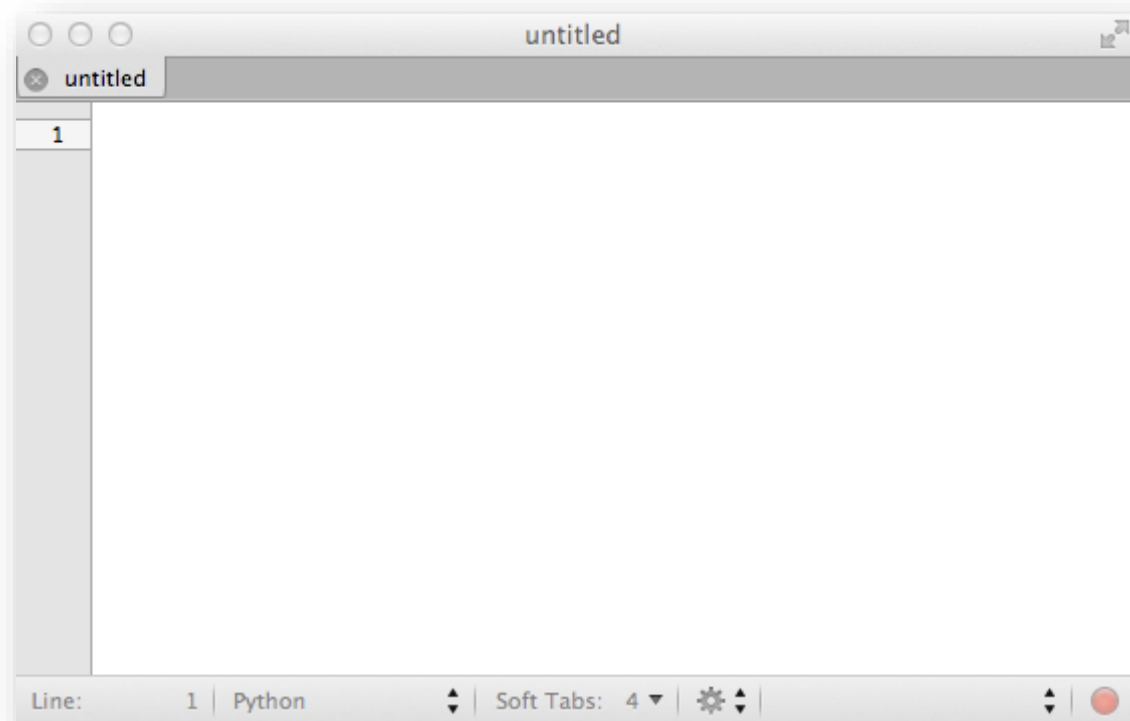
# Instalación en Mac OSX

## Alternativa de editor

[TextMate 2.0 alpha](#)

**Textmate** es un buen editor.  
Se puede descargar gratis desde  
el siguiente enlace:

<http://macromates.com/download>



**Nota:** Se debe cambiar el path de Textmate a la versión 3.X de python



# Consola versus IDLE

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## ► Consola

- Modo interactivo
- Instrucciones se ejecutan una a una
- Se ve el resultado de su evaluación inmediatamente

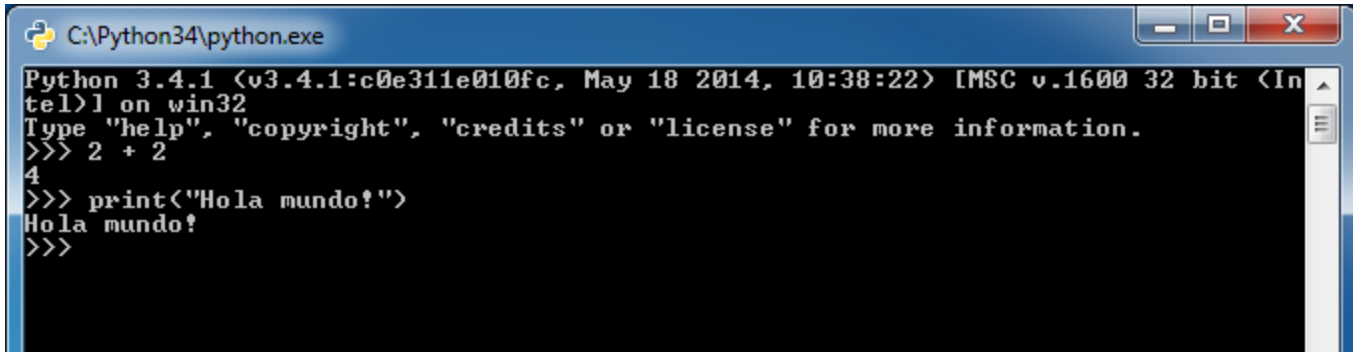
## ► IDLE

- Añade funcionalidades extra al modo interactivo
- Autocompletado de código
- Coloreado de sintaxis del lenguaje
- Indentación automática
- Editor de texto



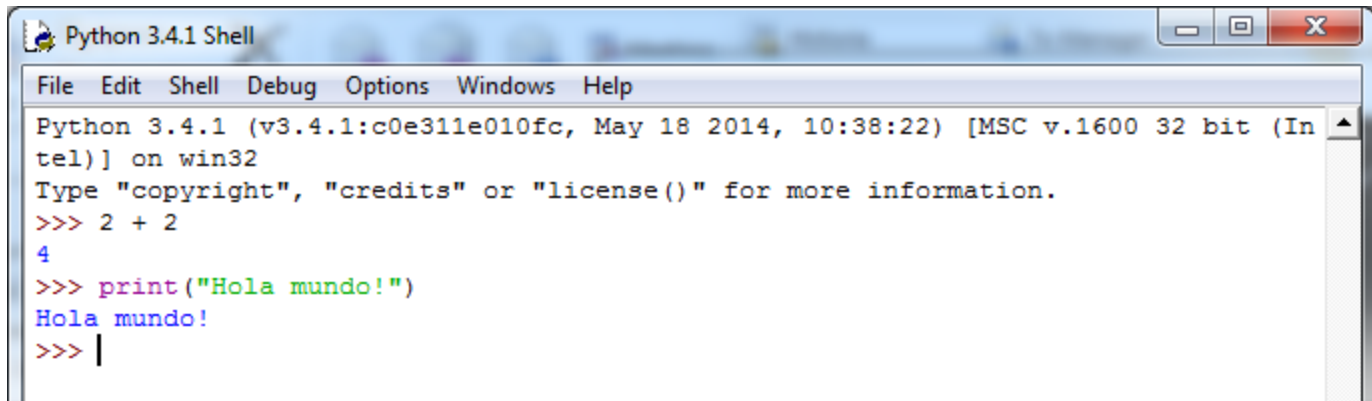
# Consola versus IDLE

## ► Consola



```
C:\Python34\python.exe
Python 3.4.1 <v3.4.1:c0e311e010fc, May 18 2014, 10:38:22> [MSC v.1600 32 bit <Intel>] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> 2 + 2
4
>>> print("Hola mundo!")
Hola mundo!
>>>
```

## ► IDLE



```
Python 3.4.1 Shell
File Edit Shell Debug Options Windows Help
Python 3.4.1 (v3.4.1:c0e311e010fc, May 18 2014, 10:38:22) [MSC v.1600 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> 2 + 2
4
>>> print("Hola mundo!")
Hola mundo!
>>> |
```