



Lisbon School
of Economics
& Management
Universidade de Lisboa



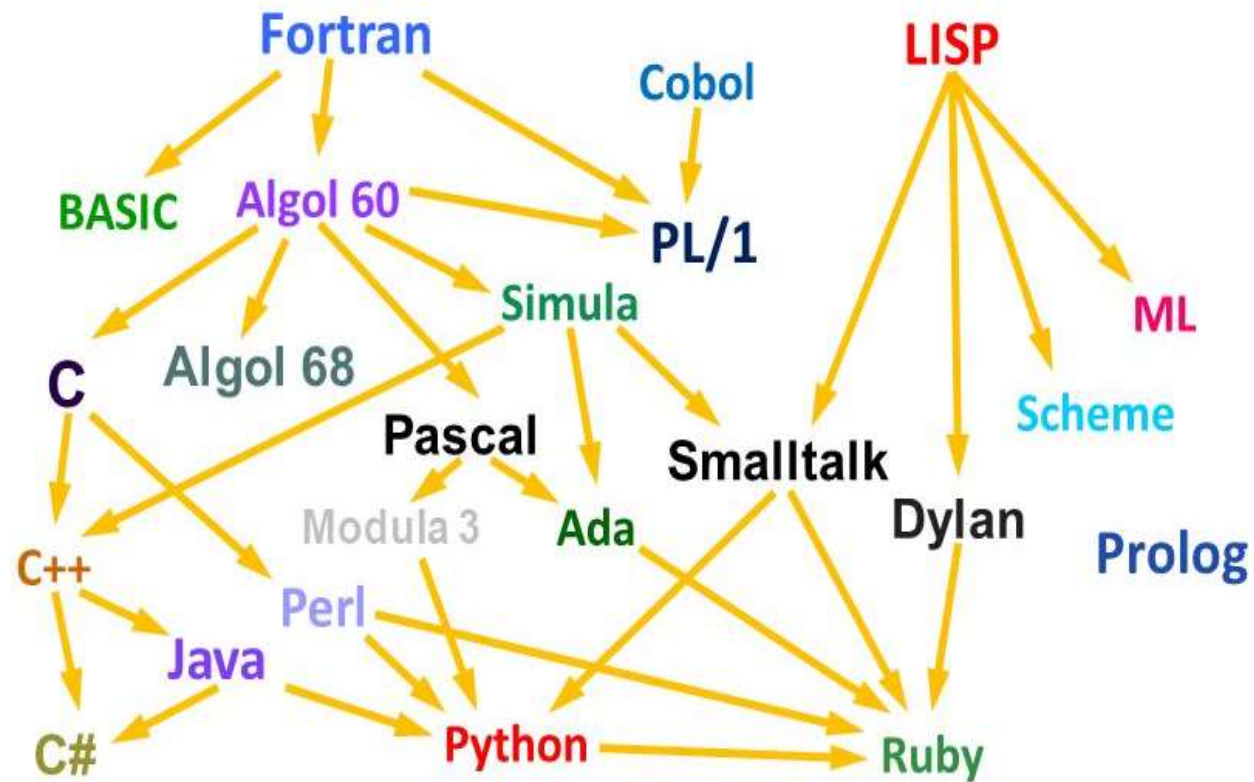
Carlos J. Costa



Learning Goals

- Understand Python in the context of other languages
- Learn Python History and License
- Know Python Programming Tools

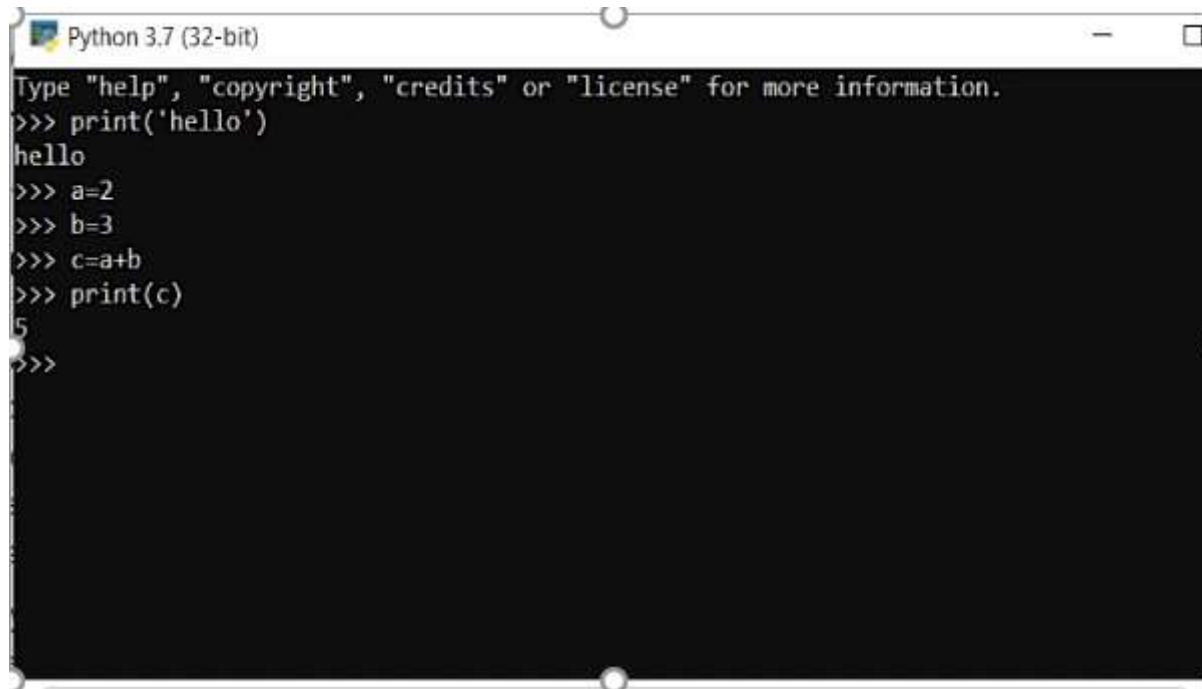




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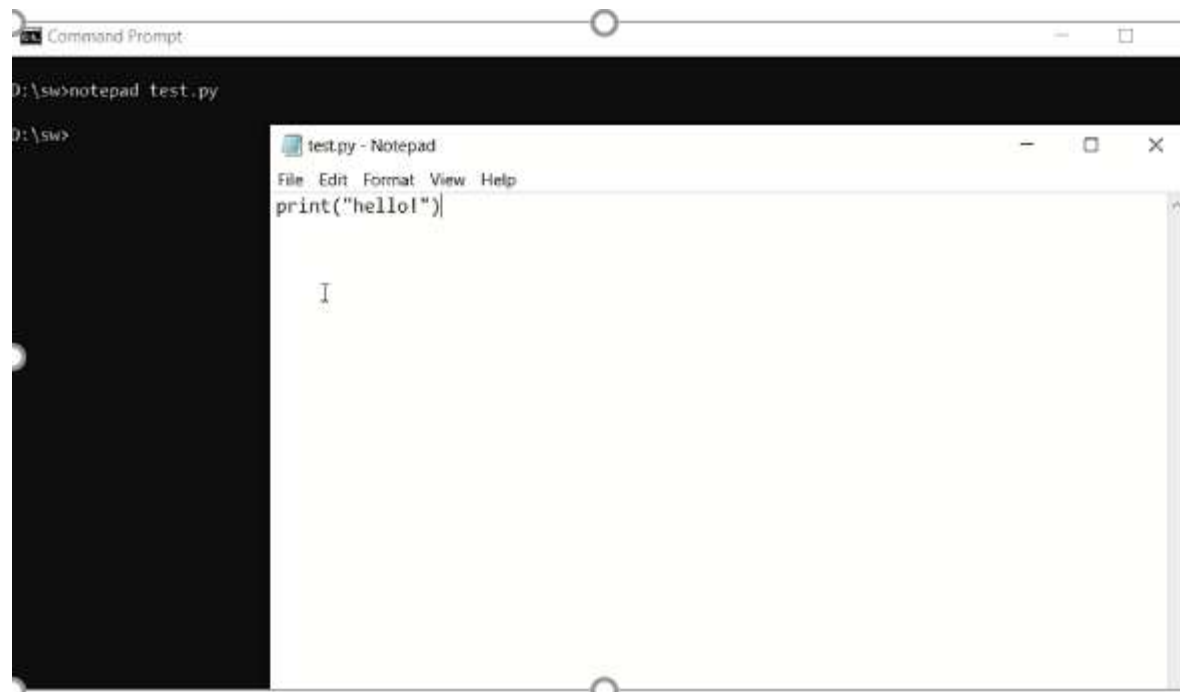
Python



```
Python 3.7 (32-bit)
Type "help", "copyright", "credits" or "license" for more information.
>>> print('hello')
hello
>>> a=2
>>> b=3
>>> c=a+b
>>> print(c)
5
>>>
```

Interactive mode

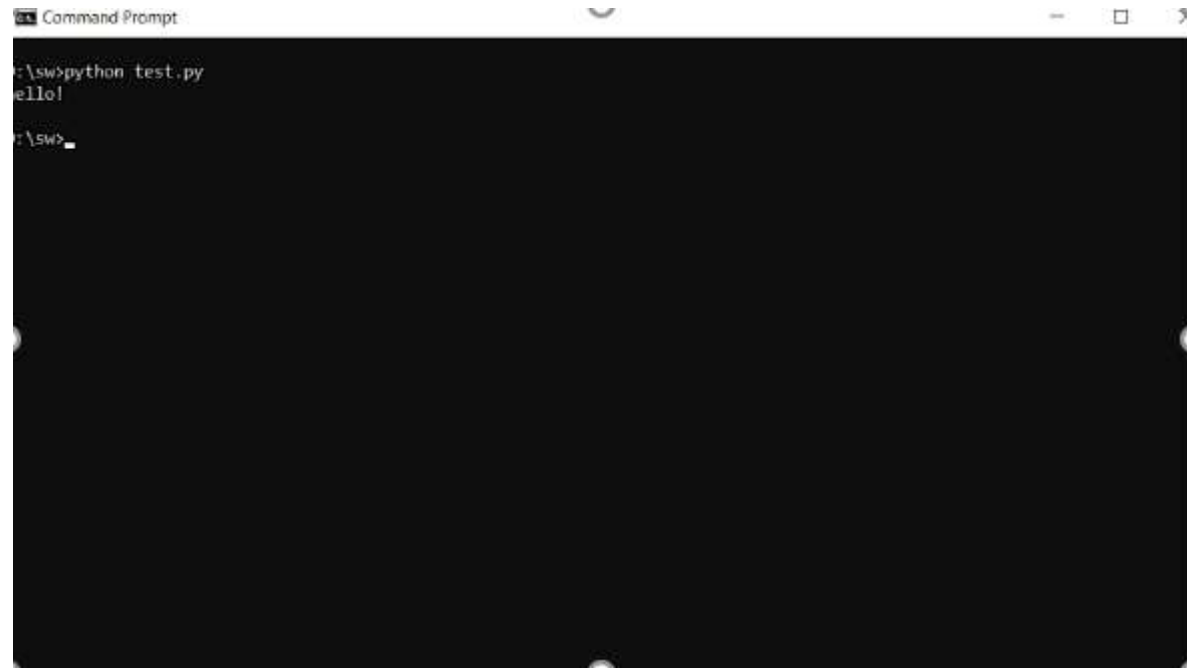
Python



The image shows a Windows Command Prompt window with a black background. The prompt shows the command `D:\sw>notepad test.py` and the subsequent prompt `D:\sw>`. Overlaid on this is a Notepad window titled "test.py - Notepad" with a white background. The Notepad window contains the text `print("hello!")` and a cursor. The Notepad window has a menu bar with "File", "Edit", "Format", "View", and "Help".

Script mode

Python



```
Command Prompt
c:\sw>python test.py
ello!
c:\sw>
```

Script mode



Anaconda Navigator

File Help

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Home

Environments

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Community

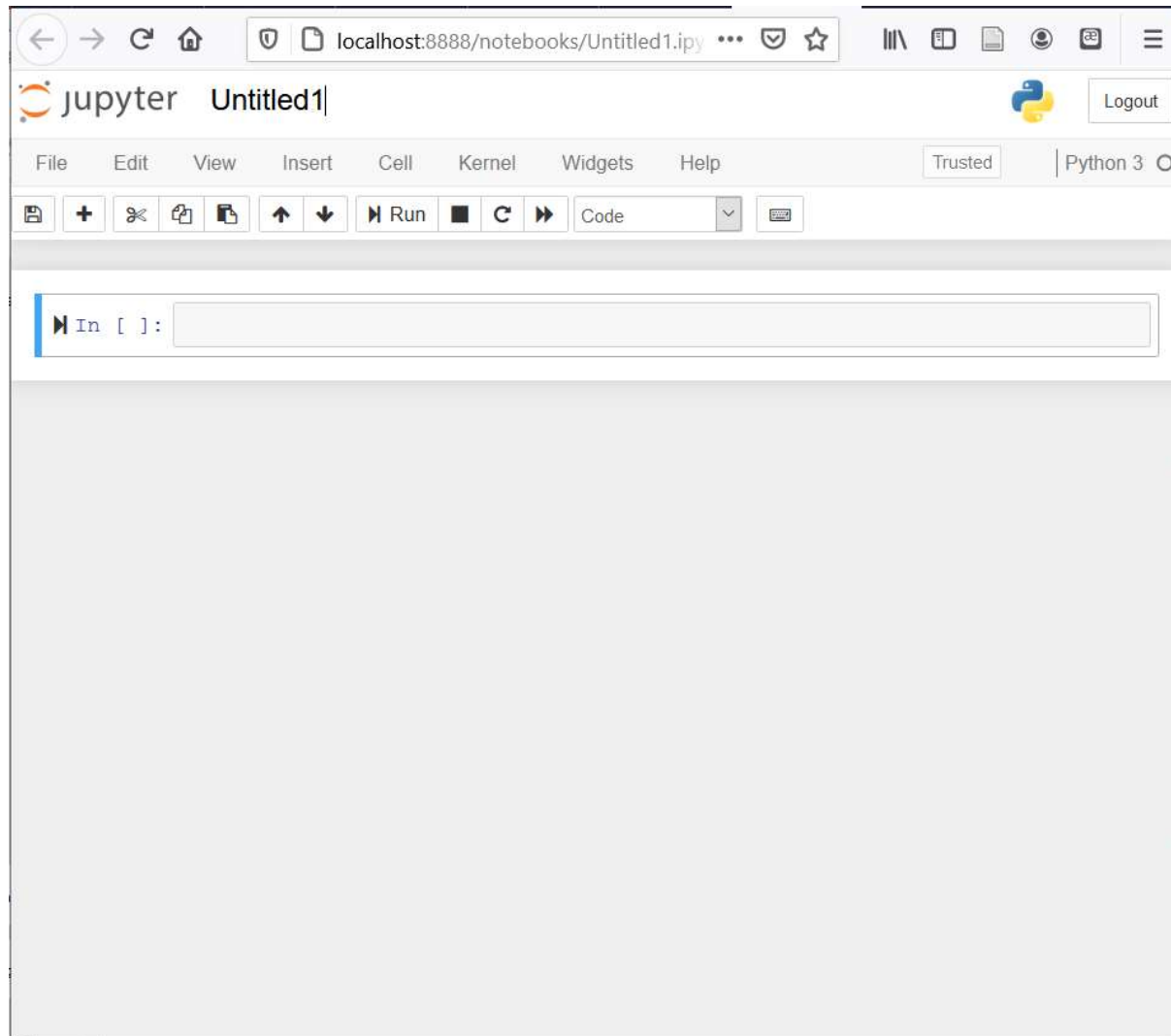
Documentation

Developer Blog

Applications on base (root) Channels Refresh

 CMD.exe Prompt 0.1.1 Run a cmd.exe terminal with your current environment from Navigator activated. Launch	 JupyterLab 0.34.9 An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture. Launch	 Jupyter Notebook 5.6.0 Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis. Launch	 PyCharm 2020.2.1 Full-featured Python IDE by JetBrains. Supports code completion, linting, debugging, and domain-specific enhancements for web development and data science. Launch	 Qt Console 4.1 PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more. Launch	 Spyder 3.3.1 Scientific Python Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features. Launch
 VS Code 1.48.2 Streamlined code editor with support for development operations like debugging, task running and version control. Launch	 Glueviz 0.15.2 Multidimensional data visualization across files. Explore relationships within and among related datasets. Install	 Orange 3 3.23.1 Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox. Install	 Powershell Prompt 0.0.1 Run a Powershell terminal with your current environment from Navigator activated. Install	 RStudio 1.1.456 A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks. Install	





Browser address bar: <https://colab.research.google.com/drive>

Colab interface: **Untitled0.ipynb** ☆

Menu: File Edit View Insert Runtime Tools Help Las...

Buttons: Comment Share Settings Profile

Code Editor: + Code + Text | Connect | Editing

```
[ ] print("asdad")
```

Output: asdad

```
[ ] a=1  
b=2  
c= a + b  
print(c)
```

Output: 3

```
[ ] a= input("colocar numero:")  
b=a*3  
print(b)
```

Input: colocar numero:eee
Output: eeeeeeee

Conclusion

Context and history

License

Interactive and script mode

Anaconda