



Lisbon School  
of Economics  
& Management  
Universidade de Lisboa



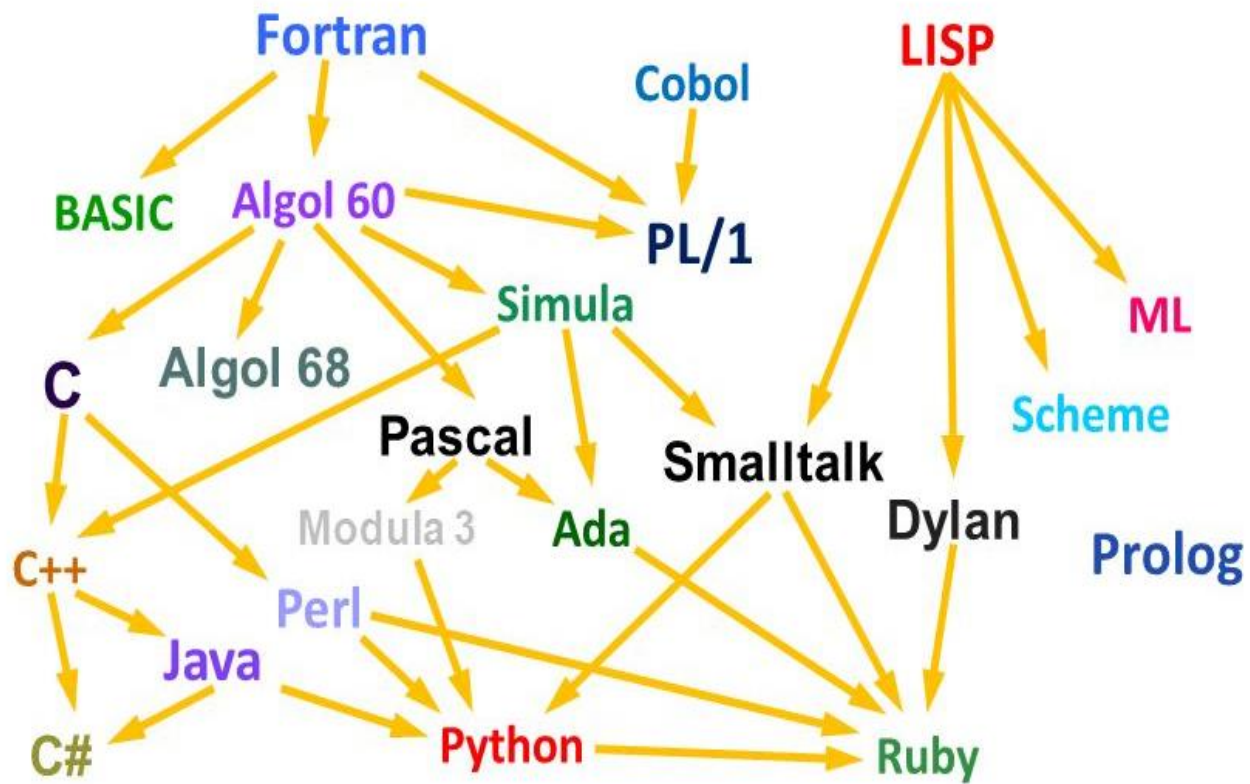
Carlos J. Costa



# Learning Goals

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





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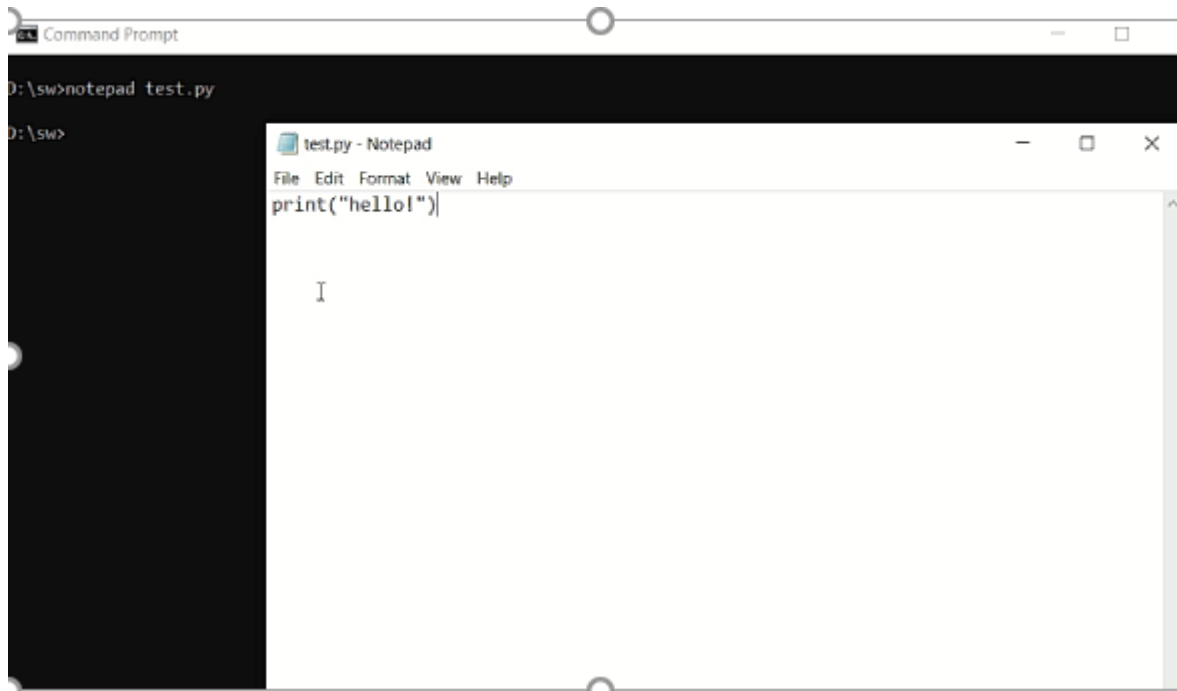
# Python



```
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

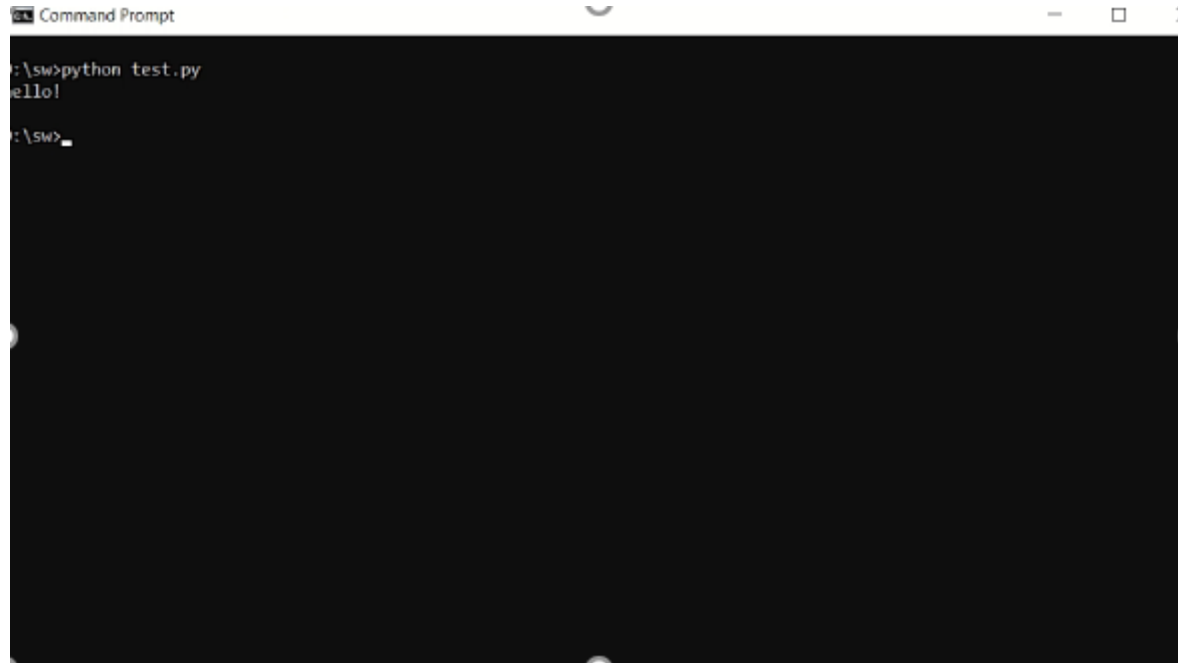
# Python



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`. The Notepad window has a menu bar with `File Edit Format View Help` and contains the text `print("hello!")` with a cursor on the line below.

Script mode

# Python



```
Command Prompt
C:\sw>python test.py
hello
C:\sw>
```

Script mode





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 CMD.exe Prompt 0.1.1 Run a cmd.exe terminal with your current environment from Navigator activated <input type="button" value="Launch"/>	 JupyterLab 0.34.9 An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture. <input type="button" value="Launch"/>	 Jupyter Notebook 5.6.0 Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis. <input type="button" value="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. <input type="button" value="Launch"/>	 Qt Console 4.4.1 PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more. <input type="button" value="Launch"/>	 Spyder 3.3.1 Scientific Python Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features <input type="button" value="Launch"/>
 VS Code 1.48.2 Streamlined code editor with support for development operations like debugging, task running and version control. <input type="button" value="Launch"/>	 Glueviz 0.15.2 Multidimensional data visualization across files. Explore relationships within and among related datasets. <input type="button" value="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. <input type="button" value="Install"/>	 Powershell Prompt 0.0.1 Run a Powershell terminal with your current environment from Navigator activated <input type="button" value="Install"/>	 RStudio 1.1.456 A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks. <input type="button" value="Install"/>	



A screenshot of a Jupyter Notebook interface displayed in a web browser. The browser's address bar shows the URL "localhost:8888/notebooks/Untitled1.ipyn". The notebook title is "Untitled1". The interface includes a top navigation bar with a "Logout" button and a Python logo. Below this is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. A "Trusted" status indicator and "Python 3" are also visible. A toolbar contains icons for file operations (save, new, delete, copy, paste), navigation (up, down), and execution (run, stop, refresh). The main area shows a code cell with the prompt "In [ ]:" and an empty text input field.



+ Code + Text

Connect ▾

Editing



▶️ `print("asdad")`



📄 asdad

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

📄 3

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

📄 colocar numero:eee  
eeeeeeee

# Conclusion

Context and history

License

Interactive and script mode

Anaconda