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Learning Goals

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



Guido van Rossum





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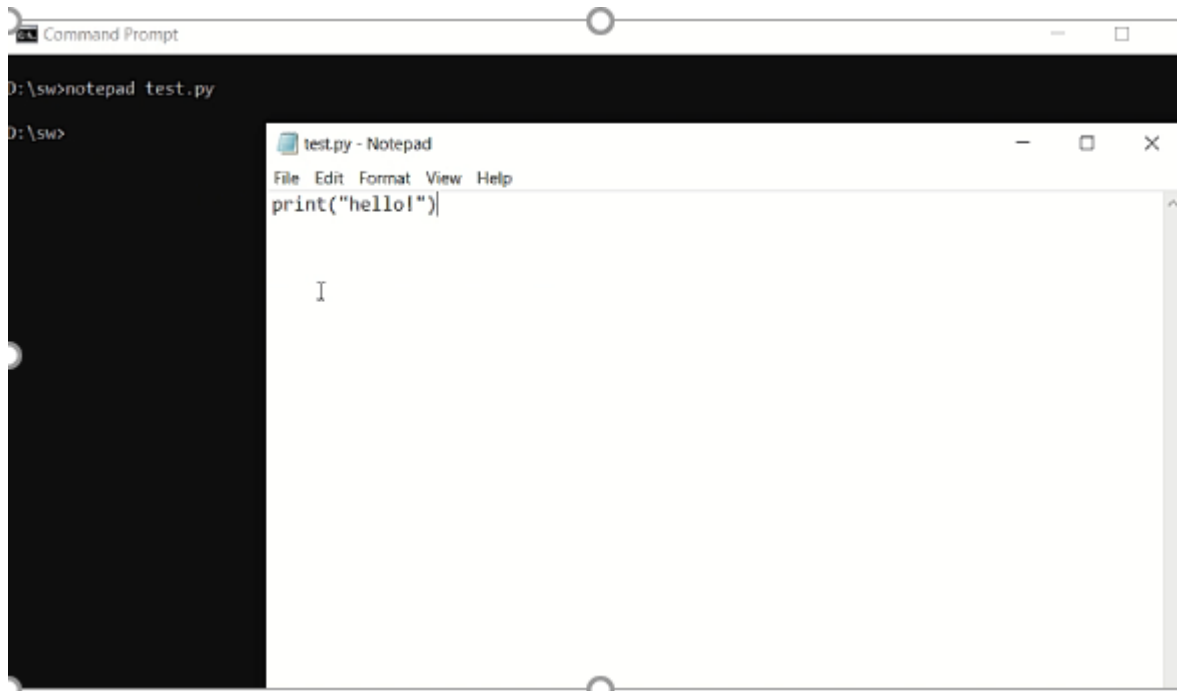
Python

A screenshot of a Python 3.7 (32-bit) interactive shell window. The window has a title bar with the text "Python 3.7 (32-bit)" and standard window controls. The main area is a black terminal with white text. It shows the prompt "Type 'help', 'copyright', 'credits' or 'license' for more information." followed by several lines of code and their output: ">>> print('hello')", "hello", ">>> a=2", ">>> b=3", ">>> c=a+b", ">>> print(c)", "5", and ">>>".

```
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
>>>
```

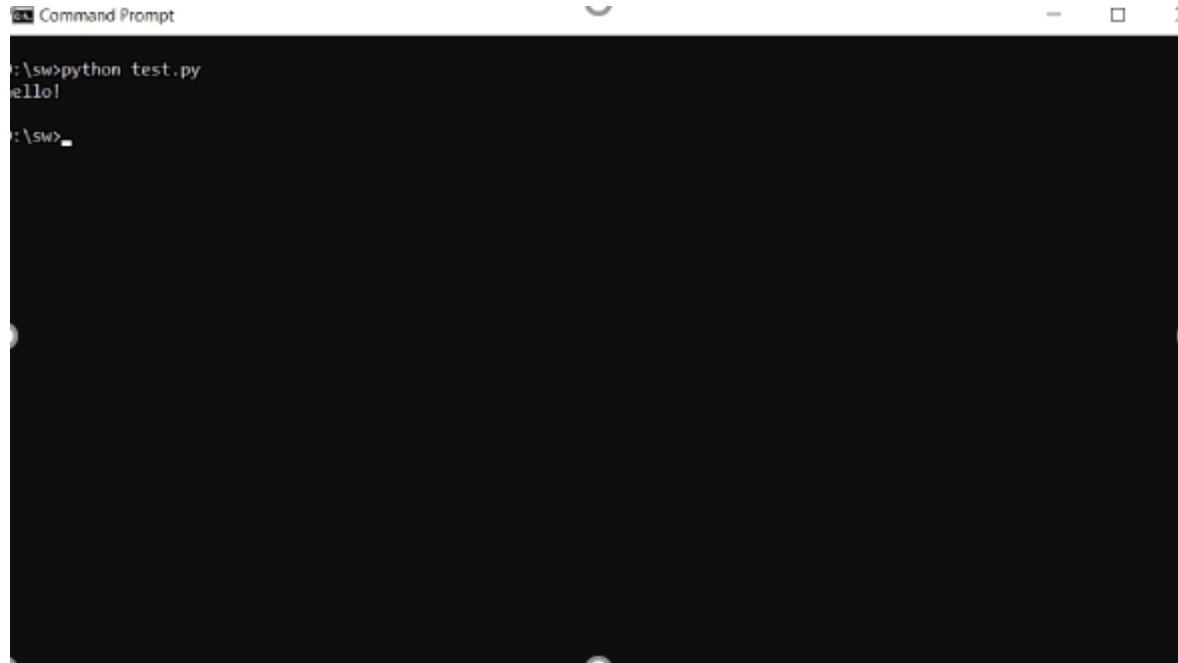
Interactive mode

Python



Script mode

Python



```
C:\sw>python test.py
Hello!
C:\sw>
```

Script mode



Anaconda Navigator

File Help

ANACONDA NAVIGATOR

Sign in to Anaconda Cloud

Home

Environments

Learning

Community

Documentation

Developer Blog

Twitter

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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

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
4.4.1
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

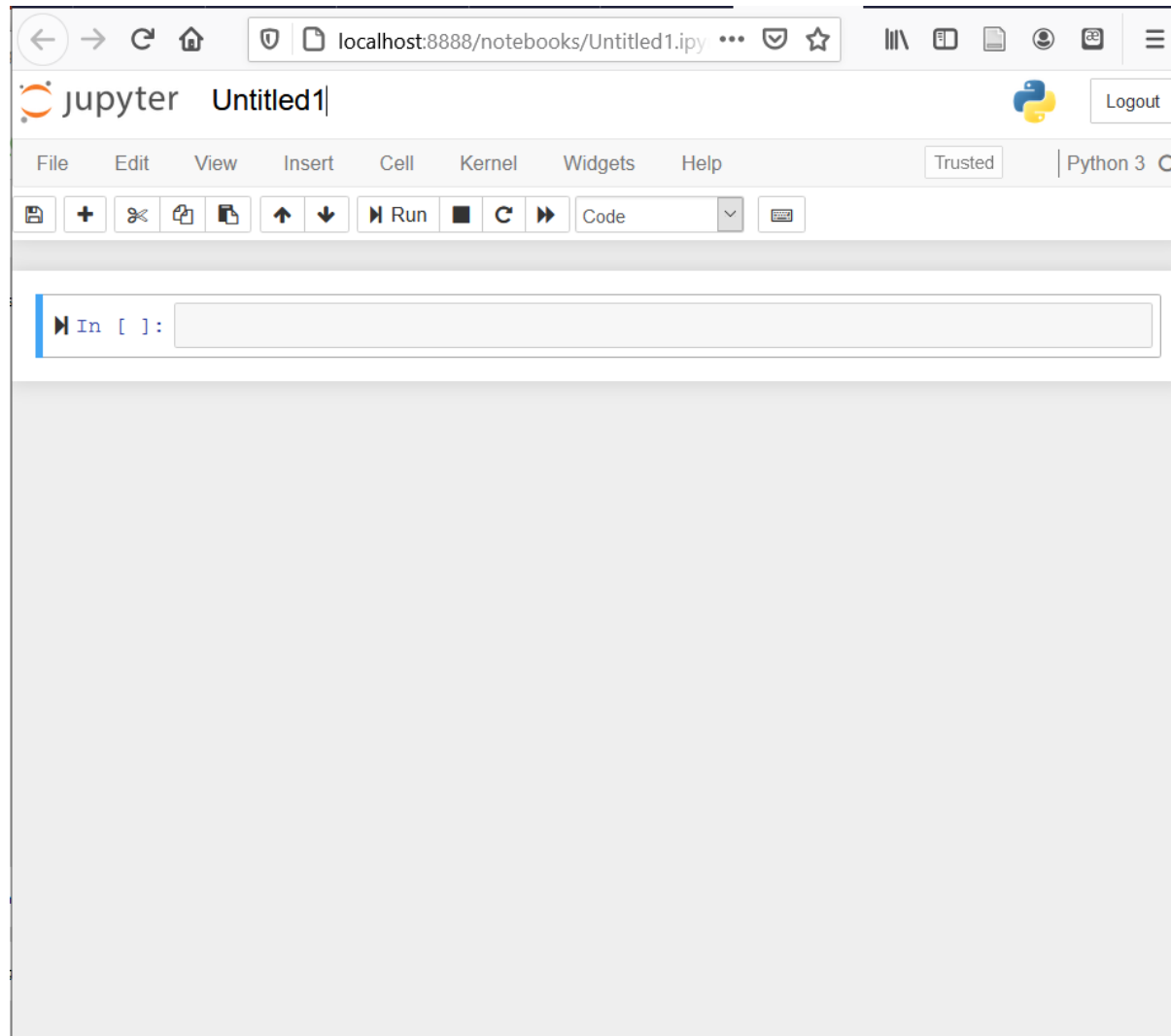
VS Code
1.48.2
Streamlined code editor with support for development operations like debugging, task running and version control.
Launch

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



← → ↻ 🏠 🔒 https://colab.research.google.com/drive ... ☆ 📄 📄 📄 📄 ☰

CO  **Untitled0.ipynb** ☆

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⏮ <> 📁

 `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
eeeeeeeeee

Conclusion

Context and history

License

Interactive and script mode

Anaconda