Visualization of Python program

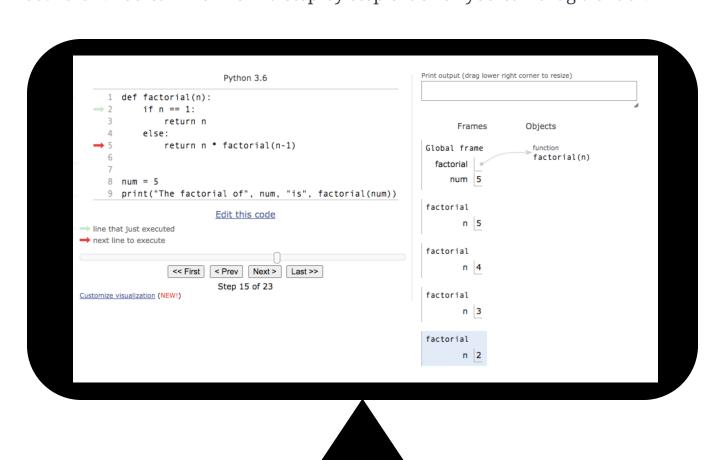
python 3 python visualization communitycreator

Making the connection between the text of a program and what it does is the key to learning to program. A new Python-based tool makes this much easier that shows you the program's inner working as it runs.

When you first learn to program, you to have to master the art of seeing what your program does to the contents of the variables you have declared.

Online python tutor

The **Online Python Tutor** is a huge help in seeing what a program does. *You can type a Python program straight into a browser and run it at once.* As you step through it, an illustration shows what is stored in each location and the variables that reference the location. It handles all sorts of difficult cases including **recursion**. You can view it in a step by step order or you can drag a slider.



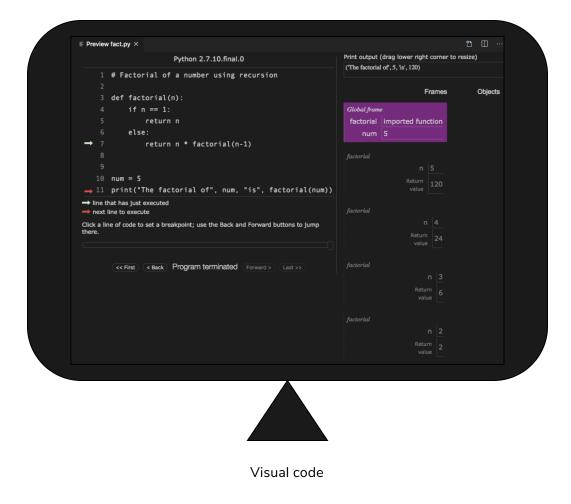
Factorial using Recursion - Python Tutor

Visual studio code

Visualization of python code can also be done in **Visual Studio Code**.

You need to install VS Code and Python to work.

Write the code in VS Code and save with an extension as filename.py and then right-click to open preview.



In comparison with visual studio, Python Tutor has a feature to get **live help** from volunteers. This feature helps programmers to get help online if they get stuck up in a program code.

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