Python Hands-On
A very hurried crash course

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Where I'm from

- Young start-up in Torino (first launched in April 2017)

- The product is a FinTech app that helps you

    - **save** automatically

    - **track** your transactions

    - be **more aware** of your personal finances

    - (soon) **invest** what you save!

Oval & Python

- Our technology is based on a simple equation:

$$\text{OO} + \text{python} = \heartsuit$$

- The app on the background relies on more or less complex **services, all written in Python**

- **ML** part is **also in Python**

ML at Oval

- We've got **BIG DATA** (variety, velocity, volume)

- By now we use ML to:

  - **classify your transactions** into categories (is it simple? What is Luca SRL? What if user 1 doesn't agree with 2?)

  - **detect your recurring transaction** (mortgage, bills, rent…)

  - suggest you **smart way of saving** (work in progress)

Why Python

Started by **Guido Von Rossum** (back in 1990)

- Very high-level

- Both procedural and Object-Oriented programming

- Simple and clean

- Cross-Platform

- Very versatile with very dynamic community!

About you

Little poll:

What's your experience with Python?

How to run python I

From the shell:

- Type `python` and write commands

- Save your code in a `.py` file and run it


```
stefanocalde — Python — 80×24
Last login: Mon Sep 17 09:19:32 on ttys005
MacBook-Pro-di-Stefano-2:~ stefanocalde$
MacBook-Pro-di-Stefano-2:~ stefanocalde$ python3
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 26 2016, 10:47:25)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>>
```
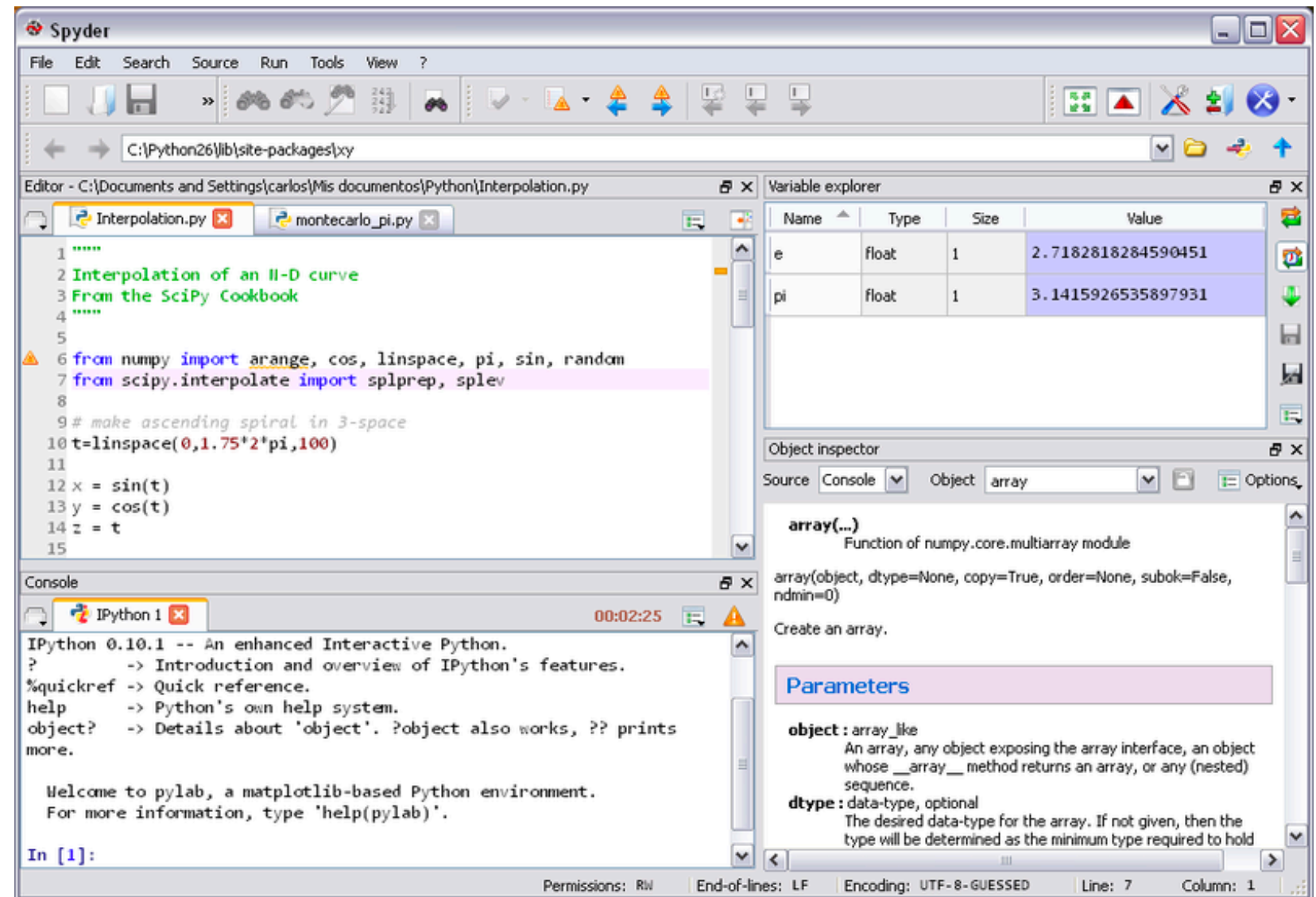


```
stefanocalde — -bash — 80×24
Last login: Mon Sep 17 09:20:20 on ttys005
MacBook-Pro-di-Stefano-2:~ stefanocalde$ python my_script.py
```

How to run python II

- Using an IDE (Spyder, PyCharm, Atom…)

- With **Jupiter Notebooks**!