



**PPGI** PROGRAMA  
DE PÓS-GRADUAÇÃO  
EM INFORMÁTICA  
UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

# Ambientes de Programação

Prof. Jorge Zavaleta






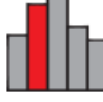
Prof. Sergio Serra

Rio de Janeiro, 2021

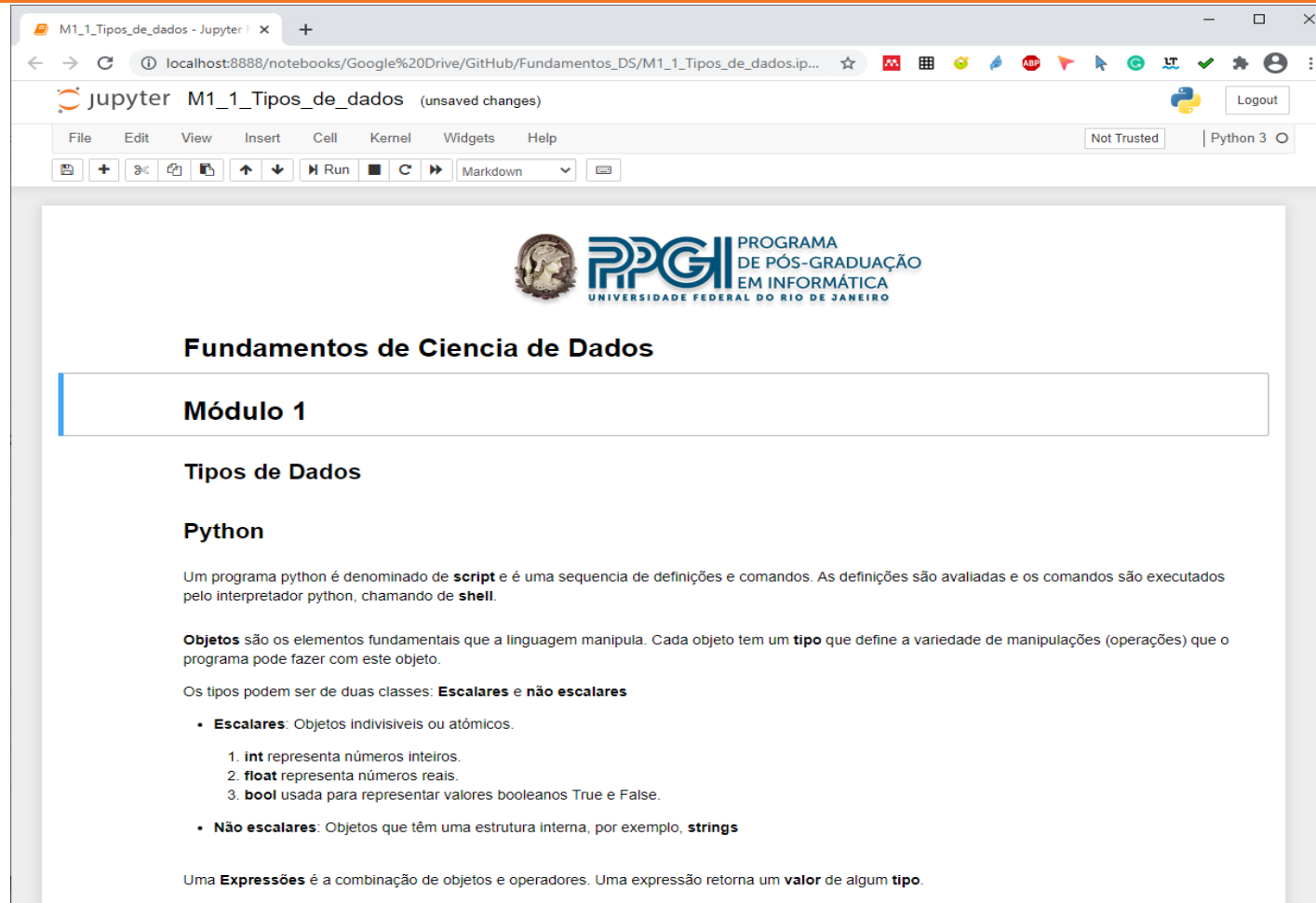
## Python 3 - Anaconda

<https://www.anaconda.com/products/individual>



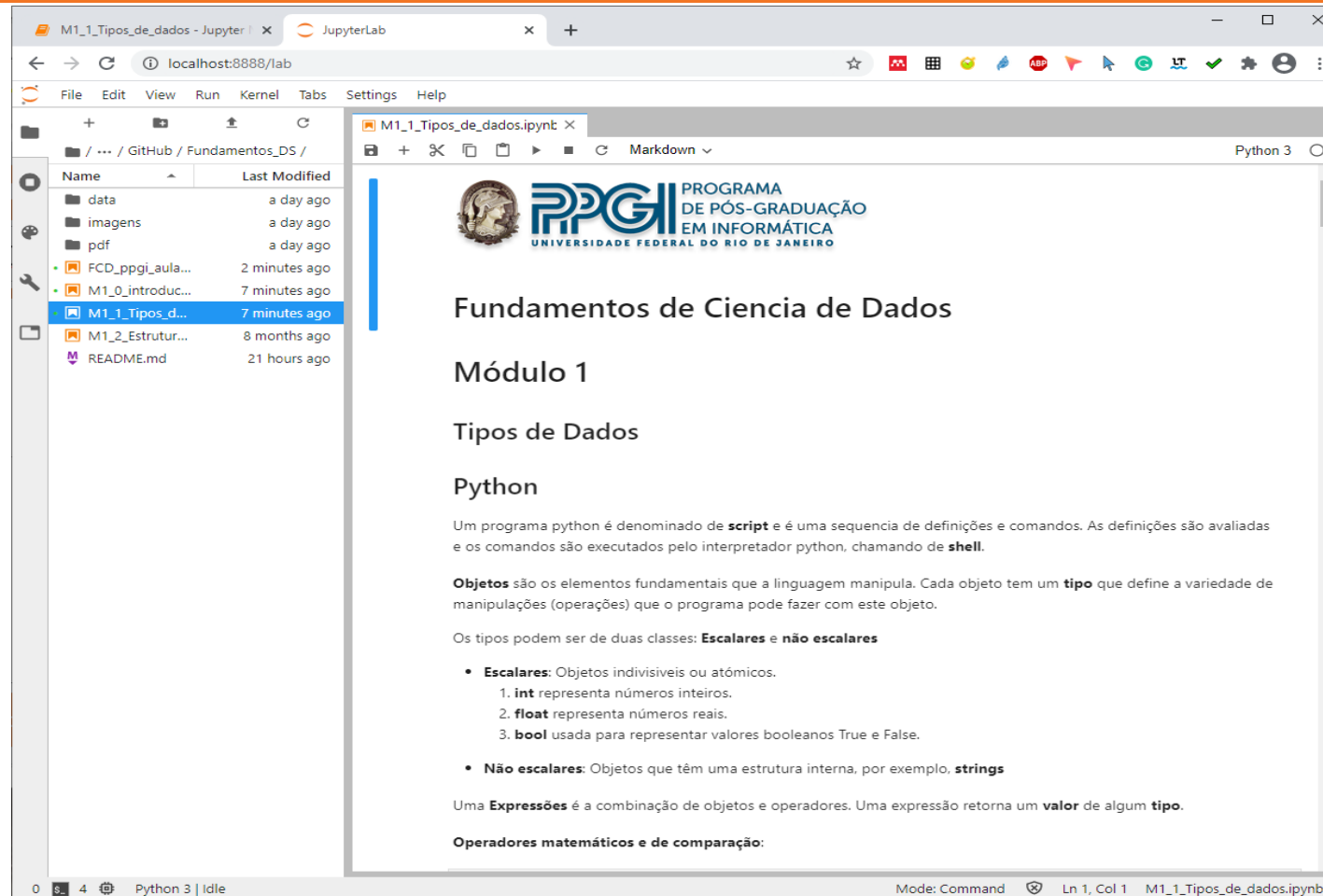
 <b>JupyterLab</b> 1.1.4 An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture. <a href="#">Launch</a>	 <b>Jupyter Notebook</b> 6.0.1 Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis. <a href="#">Launch</a>	 <b>Powershell Prompt</b> 0.0.1 Run a Powershell terminal with your current environment from Navigator activated <a href="#">Launch</a>
 <b>Qt Console</b> 4.5.5 PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more. <a href="#">Launch</a>	 <b>Spyder</b> 3.3.6 Scientific PYTHON Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features <a href="#">Launch</a>	 <b>Glueviz</b> 1.0.0 Multidimensional data visualization across files. Explore relationships within and among related datasets. <a href="#">Install</a>

## Jupyter Notebook - <http://localhost:8888/tree>





## JupyterLab - <http://localhost:8888/lab>



## Google Colab - <https://colab.research.google.com/>



A screenshot of a Google Colab notebook interface. The browser address bar shows the URL 'colab.research.google.com/github/zavaleta/Fundamentos\_DS/blob/main/FCD\_M1\_1...'. The notebook title is 'FCD\_M1\_1\_Tipos\_de\_dados.ipynb'. The left sidebar shows a file explorer with a folder named 'Fundamentos de Ciencia de Dados'. The main content area displays the notebook's content, which includes a header with the logo of the 'PPGI PROGRAMA DE PÓS-GRADUAÇÃO EM INFORMÁTICA UNIVERSIDADE FEDERAL DO RIO DE JANEIRO'. The notebook content is organized into sections: 'Módulo 1', 'Tipos de Dados', and 'Python'. The 'Python' section contains text explaining that a Python program is a sequence of definitions and commands, and that objects are the fundamental elements manipulated by the language. It also lists basic data types: 'Escalares' (int, float, bool) and 'Não escalares' (strings).

Deepnote - <https://deepnote.com/>



Fundamentos\_DS

deepnote.com/project/58ee0be5-0c1a-4d21-ae3-7441a6d2bb32#%2FFundamentos...

Jorge Zavaleta Fundamentos\_DS

Files

- Fundamentos\_DS
  - .git
  - .ipynb\_checkpoints
  - imagens
  - FCD\_M1\_0\_Introducao.ipynb
  - FCD\_M1\_1\_Tipos\_de\_dados.i...
  - FCD\_M1\_2\_Estruturas\_de\_co...
  - README.md
  - Untitled.ipynb

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0 global variables

No variables found  
Run a notebook and all variables will show up here.

Re-run automatically Run notebook

PPGI PROGRAMA DE PÓS-GRADUAÇÃO EM INFORMÁTICA UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

## Fundamentos de Ciencia de Dados

### Módulo 1

#### Tipos de Dados

#### Python

Um programa python é denominado de **script** e é uma sequencia de definições e comandos. As definições são avaliadas e os comandos são executados pelo interpretador python, chamando de **shell**.

**Objetos** são os elementos fundamentais que a linguagem manipula. Cada objeto tem um **tipo** que define a variedade de manipulações (operações) que o programa pode fazer com este objeto.

Os tipos podem ser de duas classes: **Escalares** e **não escalares**

- Escalares:** Objetos indivisíveis ou atômicos.
  - 1. **int** representa números inteiros.

## Ambientes e Pacotes





## Github - [https://github.com/zavaleta/Fundamentos\\_DS](https://github.com/zavaleta/Fundamentos_DS)

