



AiGirls

Python Basic



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O que é Python?

Python é uma linguagem de programação que possui uma sintaxe simples e muitos recursos nativos, permitindo ao programador criar mais funcionalidades, escrevendo menos código.

Foi criada em 1989 por Guido Van Rossum e seu nome foi inspirado no seriado britânico Monty Python.



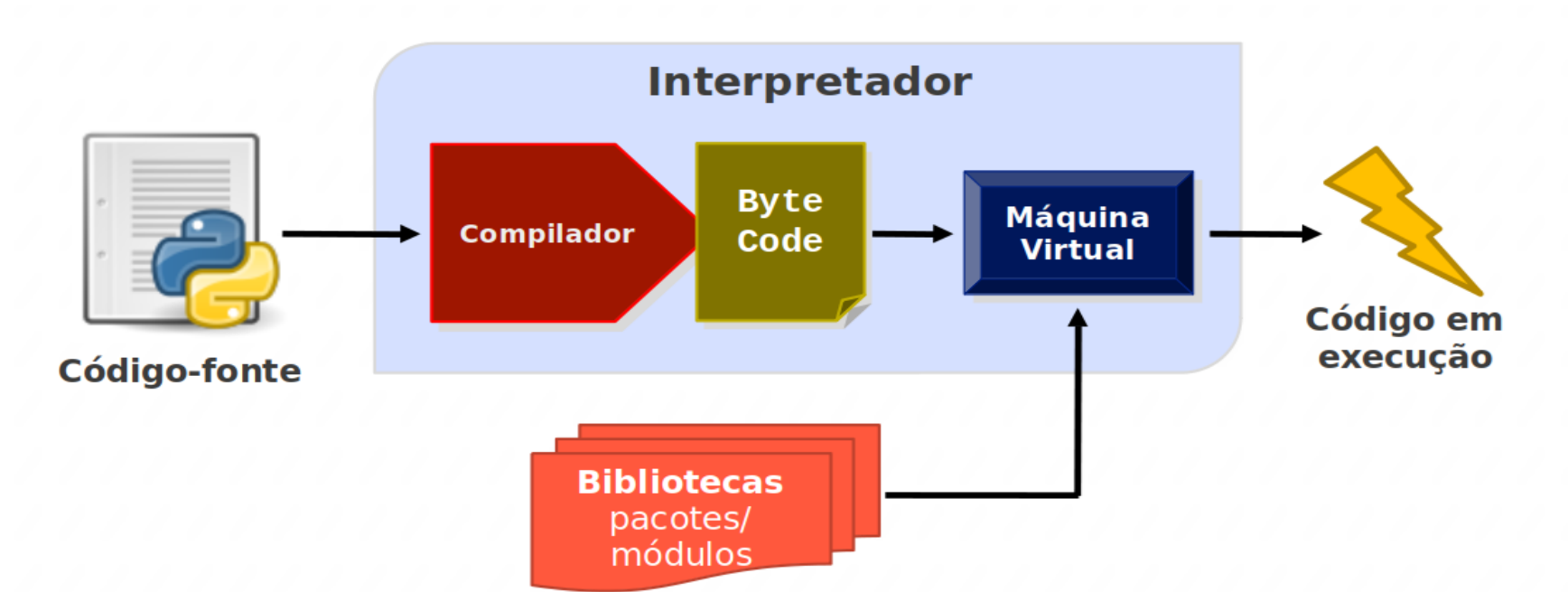
Por que Python?



- Simples e clara,
- Fácil aprendizado,
- Propósito geral,
- Open source,
- E comunidade maravilhosa!

<https://docs.python.org/pt-br/3/tutorial/index.html>

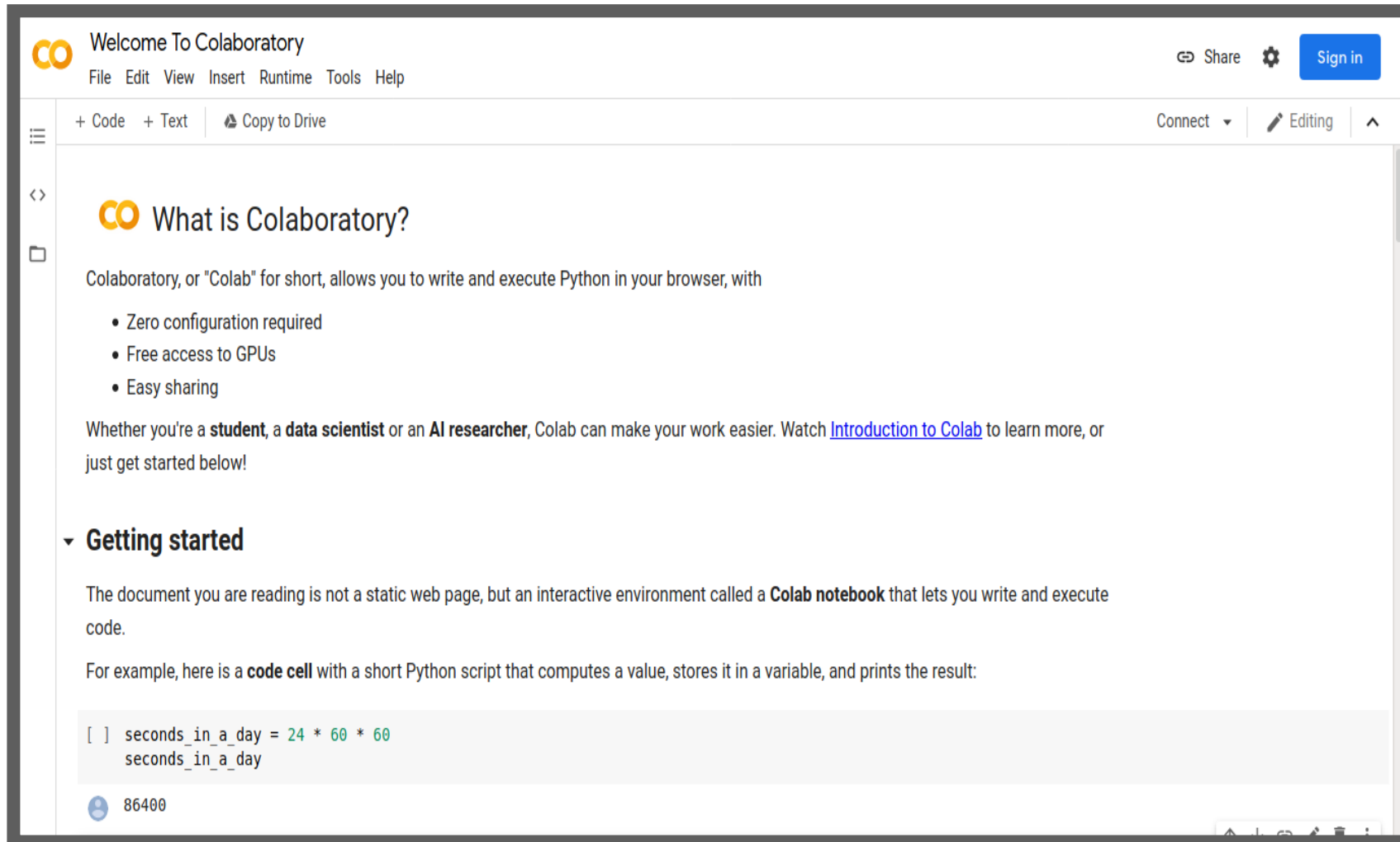
Como Python funciona?





<https://colab.research.google.com/notebooks/intro.ipynb>

Welcome to Colaboratory:



The screenshot displays the Google Colaboratory web interface. At the top, there's a header with the Colab logo, the title 'Welcome To Colaboratory', and a menu bar with options: File, Edit, View, Insert, Runtime, Tools, and Help. On the right side of the header, there are links for 'Share' and 'Sign in', along with a settings gear icon. Below the header, a toolbar contains '+ Code', '+ Text', and 'Copy to Drive' buttons. On the far right of the toolbar, there are 'Connect', 'Editing', and an upward arrow icon. The main content area features the Colab logo followed by the heading 'What is Colaboratory?'. Below this, a paragraph explains that Colaboratory, or 'Colab', allows users to write and execute Python in their browser. A bulleted list highlights three features: 'Zero configuration required', 'Free access to GPUs', and 'Easy sharing'. Another paragraph states that Colab can make work easier for students, data scientists, and AI researchers, with a link to 'Introduction to Colab'. A section titled 'Getting started' follows, explaining that the document is an interactive 'Colab notebook' and providing an example of a 'code cell' with a Python script to calculate the number of seconds in a day. The script is:

```
[ ] seconds_in_a_day = 24 * 60 * 60
seconds_in_a_day
```

 At the bottom left of the code cell, the output '86400' is shown next to a user icon.

Welcome To Colaboratory

File Edit View Insert Runtime Tools Help

+ Code + Text Copy to Drive

Connect Editing

What is Colaboratory?

Colaboratory, or "Colab" for short, allows you to write and execute Python in your browser, with

- Zero configuration required
- Free access to GPUs
- Easy sharing

Whether you're a **student**, a **data scientist** or an **AI researcher**, Colab can make your work easier. Watch [Introduction to Colab](#) to learn more, or just get started below!

Getting started

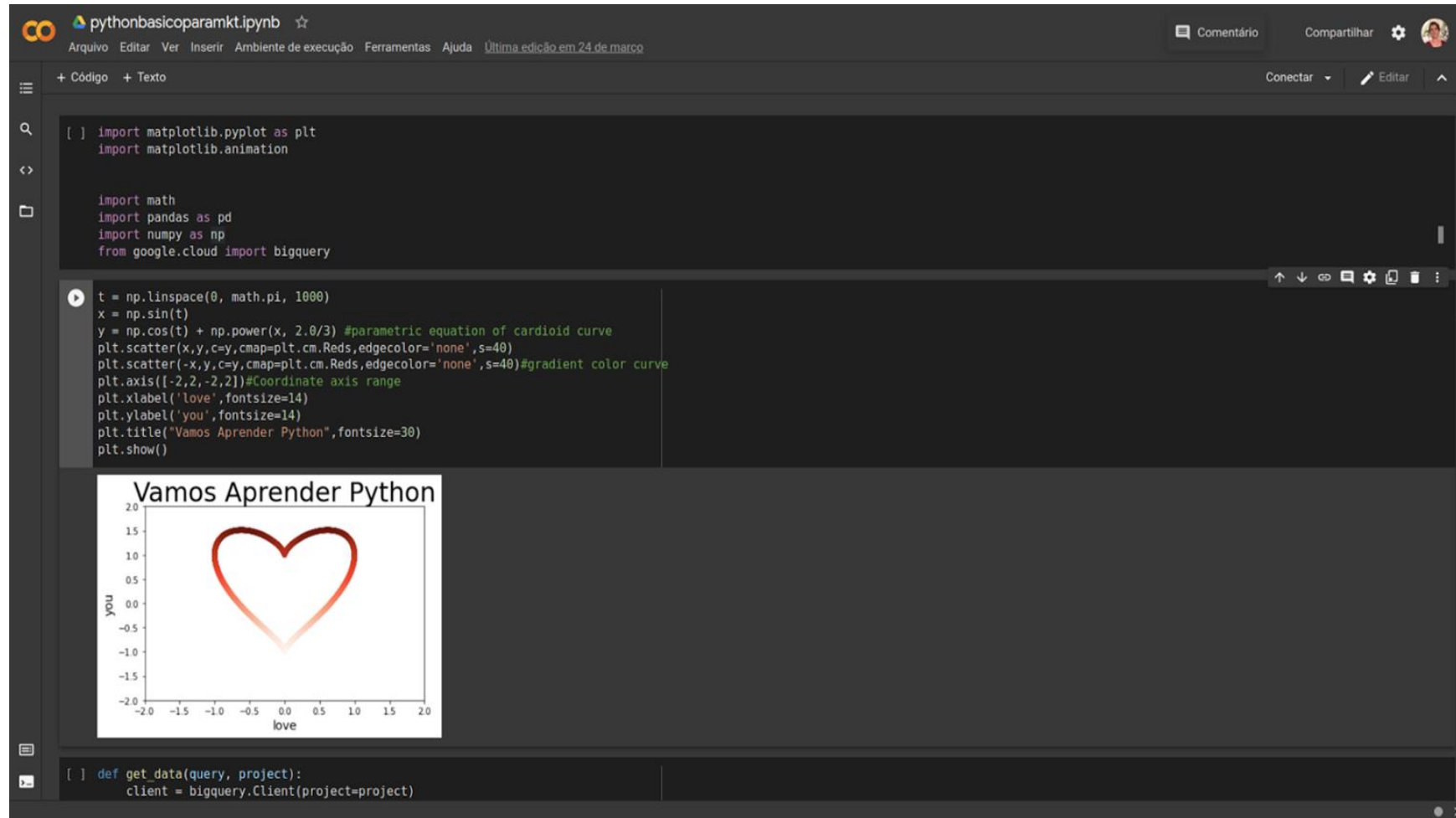
The document you are reading is not a static web page, but an interactive environment called a **Colab notebook** that lets you write and execute code.

For example, here is a **code cell** with a short Python script that computes a value, stores it in a variable, and prints the result:

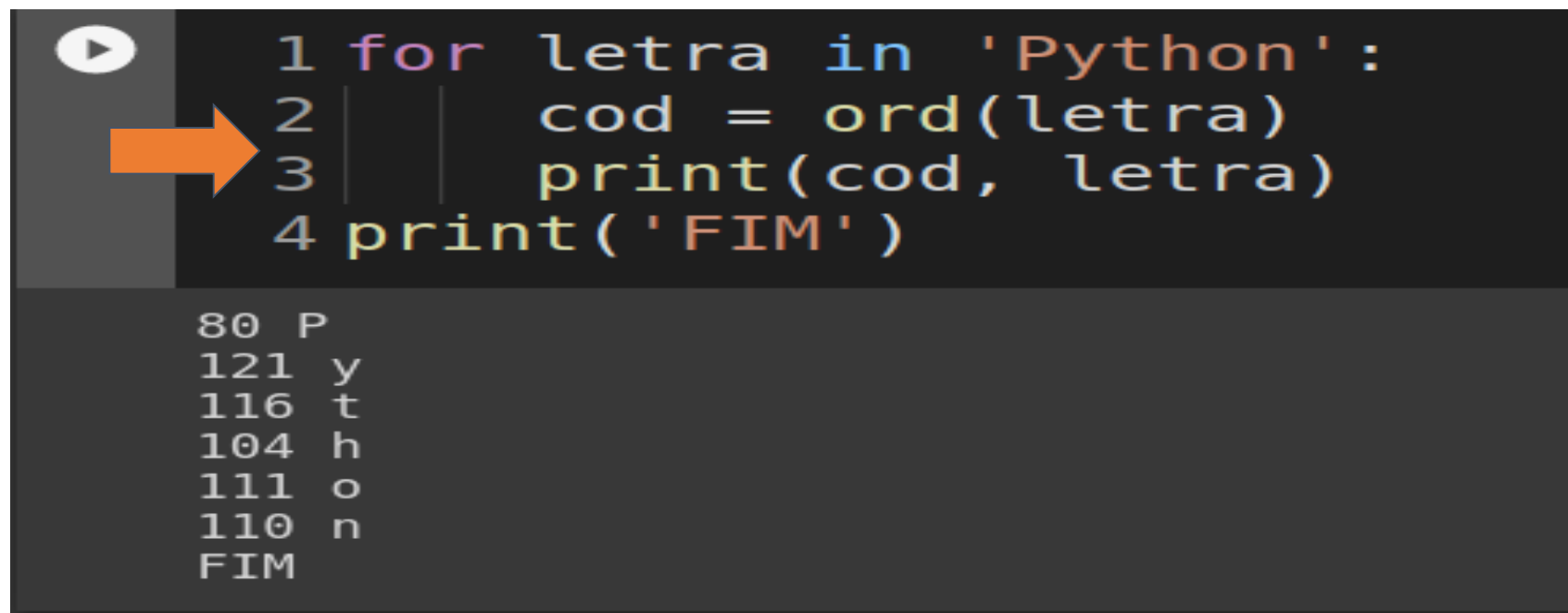
```
[ ] seconds_in_a_day = 24 * 60 * 60
seconds_in_a_day
```

86400

Welcome to Colaboratory:



Indentação*



The image shows a Python code editor with a dark background. On the left, there is a play button icon and a large orange arrow pointing to the first indented line of code. The code is as follows:

```
1 for letra in 'Python':  
2     |   |   cod = ord(letra)  
3     |   |   print(cod, letra)  
4 print('FIM')
```

Below the code, the output is displayed:

```
80 P  
121 y  
116 t  
104 h  
111 o  
110 n  
FIM
```

* por convenção, usa-se 4 espaços por nível (mas basta ser consistente; evite usar tabs)

Comentários

```
1 def contar(n):  
2     while n > 0: # enquanto n for maior que zero  
3         print(n) # mostre o valor de n  
4         n = n - 1 # então diminua 1  
5     print("Rá-tim-bum") # quando chegar no 0 printar
```

```
1 '''Minha terra tem palmeiras,  
2 Onde canta o Sabiá;  
3 As aves, que aqui gorjeiam,  
4 Não gorjeiam como lá.'''
```

Keyboard preferences

Shortcuts

To add or change a shortcut, click the key combination and then type the new keys. Note that Ctrl+M can be used as a prefix for multi-key-event shortcuts.

Ctrl+Alt+M	Add a comment	Ctrl+P	Print notebook
Set shortcut	Add a form	Ctrl+Shift+Y	Redo cell action
Set shortcut	Add a form field	Set shortcut	Rename notebook
Set shortcut	Add code cell	Shift+Ctrl+H	Replace all in current cell
Set shortcut	Add section header cell	Set shortcut	Report a bug
Set shortcut	Add table of contents cell	Set shortcut	Reset all runtimes
Set shortcut	Add text cell	Ctrl+M .	Restart runtime
Set shortcut	Ask on Stack Overflow	Set shortcut	Restart runtime and run all cells in notebook
Ctrl+Space or Tab	Autocomplete	Ctrl+F9	Run all cells in notebook
Set shortcut	Clear all outputs	Alt+Enter	Run cell and insert new cell
Set shortcut	Clear selected outputs	Shift+Enter	Run cell and select next cell
Ctrl+J	Collapse all/selected sections	Ctrl+F8	Run cells before the current
Ctrl+/	Comment current line	Ctrl+F10	Run selected cell and all cells after
Set shortcut	Connect to a local runtime	Ctrl+Shift+Enter	Run selection
Set shortcut	Connect to a runtime	Ctrl+Enter	Run the focused cell
Ctrl+M Y	Convert to code cell	Set shortcut	Save a copy as a GitHub Gist
Ctrl+M M	Convert to text cell	Set shortcut	Save a copy in Drive
Set shortcut	Copy selection	Set shortcut	Save a copy in GitHub
Set shortcut	Copy to scratch cell	Ctrl+M S	Save and pin revision
Set shortcut	Cut selection	Ctrl+S	Save notebook
Ctrl+M F	Cycle form view	Set shortcut	Save the collapsed section layout
Ctrl+M D	Delete cell/selection	Ctrl+Shift+A	Select all cells
Set shortcut	Download .ipynb	Shift+Click	Select multiple cells
Set shortcut	Download .py	Set shortcut	Send feedback
Ctrl+]	Expand all/selected sections	Set shortcut	Share notebook
Ctrl+G	Global find next	Ctrl+Alt+P	Show code snippets pane
Ctrl+Shift+G	Global find previous	Ctrl+Shift+P	Show command palette
Ctrl+H	Global find/replace	Set shortcut	Show executed code history
Set shortcut	Hide code in selected cells	Set shortcut	Show file browser
Ctrl+M A	Insert code cell above	Ctrl+M H	Show keyboard shortcuts
Ctrl+M B	Insert code cell below		

RESTORE DEFAULTS CANCEL SAVE

Atalhos Colab

Mãos à obra:



Obrigada!!!

