

Tutorial de instalação Python e primeiros passos

Disciplina: Introdução à linguagem Python

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Instalando o Python Localmente

- Realizando download do Python
- Instalando o Python
- Instalando uma IDE para criar seus códigos
- Alternativa: Instalar o Anaconda com uma série de pacotes e ambientes já pré-definidos.
- Ambiente Python online através do Google Colab

Acesse o site e vá até a aba downloads

The screenshot shows the Python.org homepage. At the top, there is a navigation bar with links for Python, PSF, Docs, PyPI, Jobs, and Community. Below this is the Python logo and a search bar. A secondary navigation bar contains links for About, Downloads, Documentation, Community, Success Stories, News, and Events. The Downloads menu is open, showing options like All releases, Source code, Windows, macOS, Other Platforms, License, and Alternative Implementations. The 'Download for Windows' section is highlighted, showing the current version (Python 3.11.1) and a note that Python 3.9+ cannot be used on Windows 7 or earlier. It also provides a link to view the full list of downloads. At the bottom, a message states: 'Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)'.

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Python 3: Fib

```
>>> def fib(n):
>>>     a, b =
>>>     while a
>>>         pri
>>>         a,
>>>         print()
>>>     fib(1000)
0 1 1 2 3 5 8 1
```

All releases

Source code

Windows

macOS

Other Platforms

License

Alternative Implementations

Download for Windows

Python 3.11.1

Note that Python 3.9+ cannot be used on Windows 7 or earlier.

Not the OS you are looking for? Python can be used on many operating systems and environments.

[View the full list of downloads.](#)

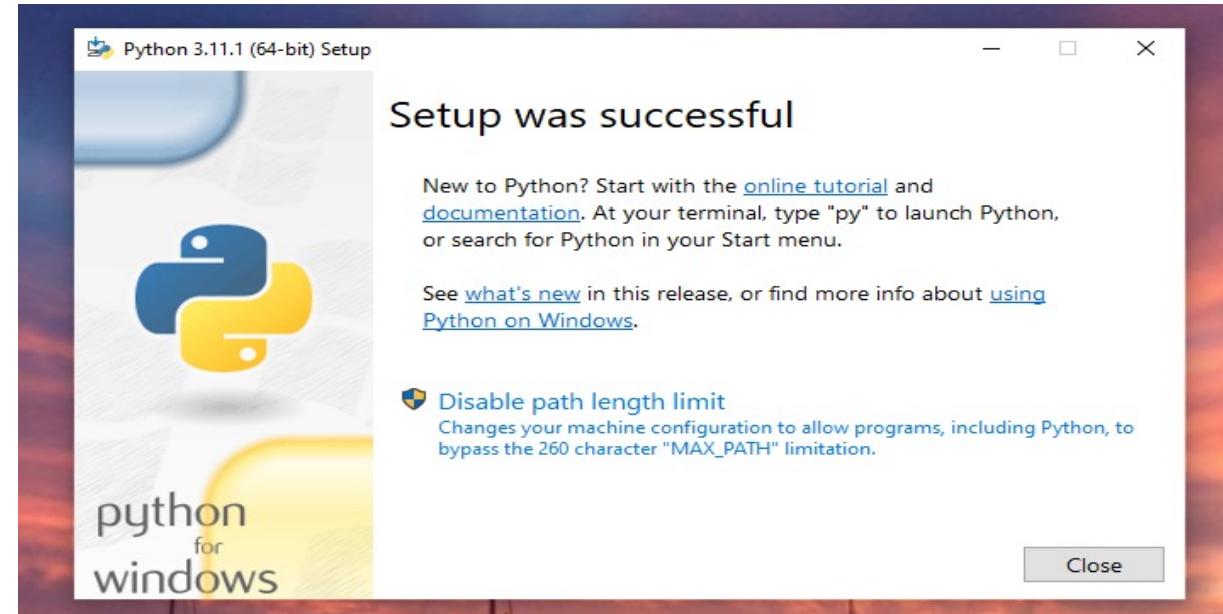
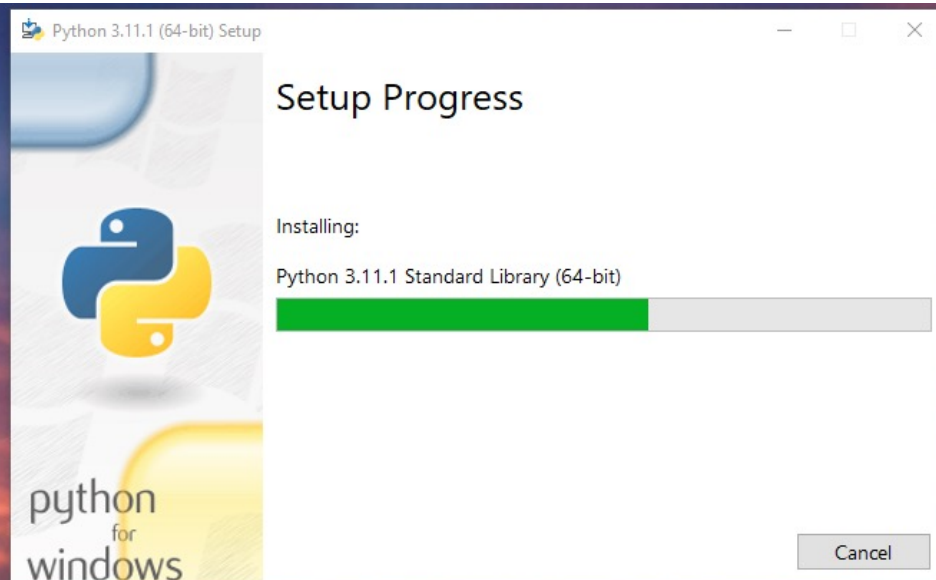
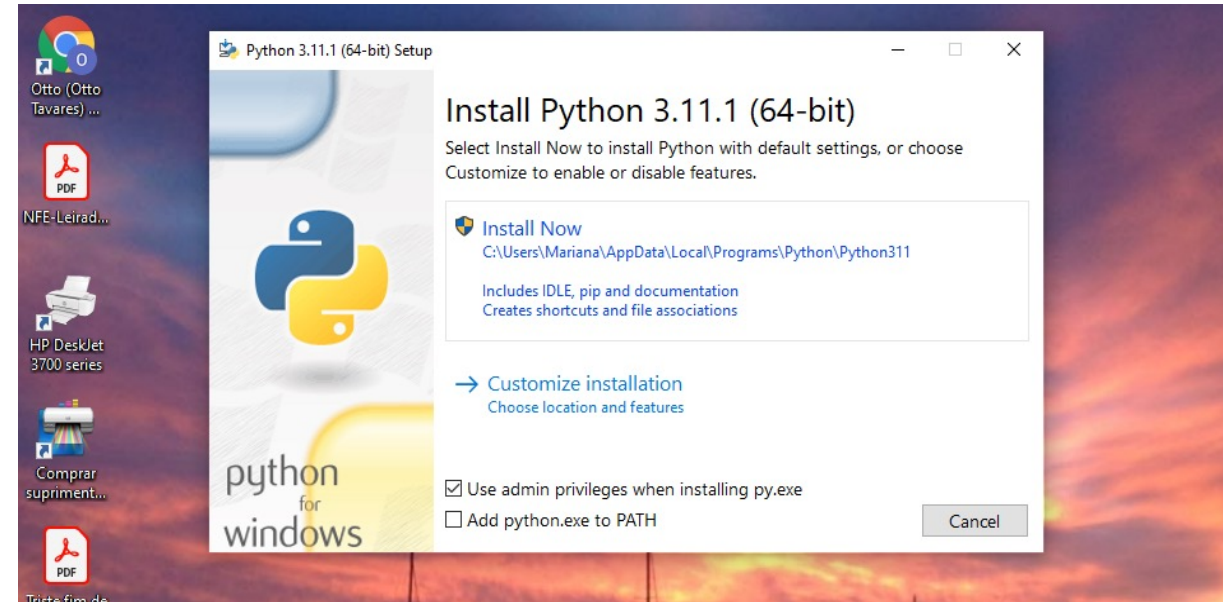
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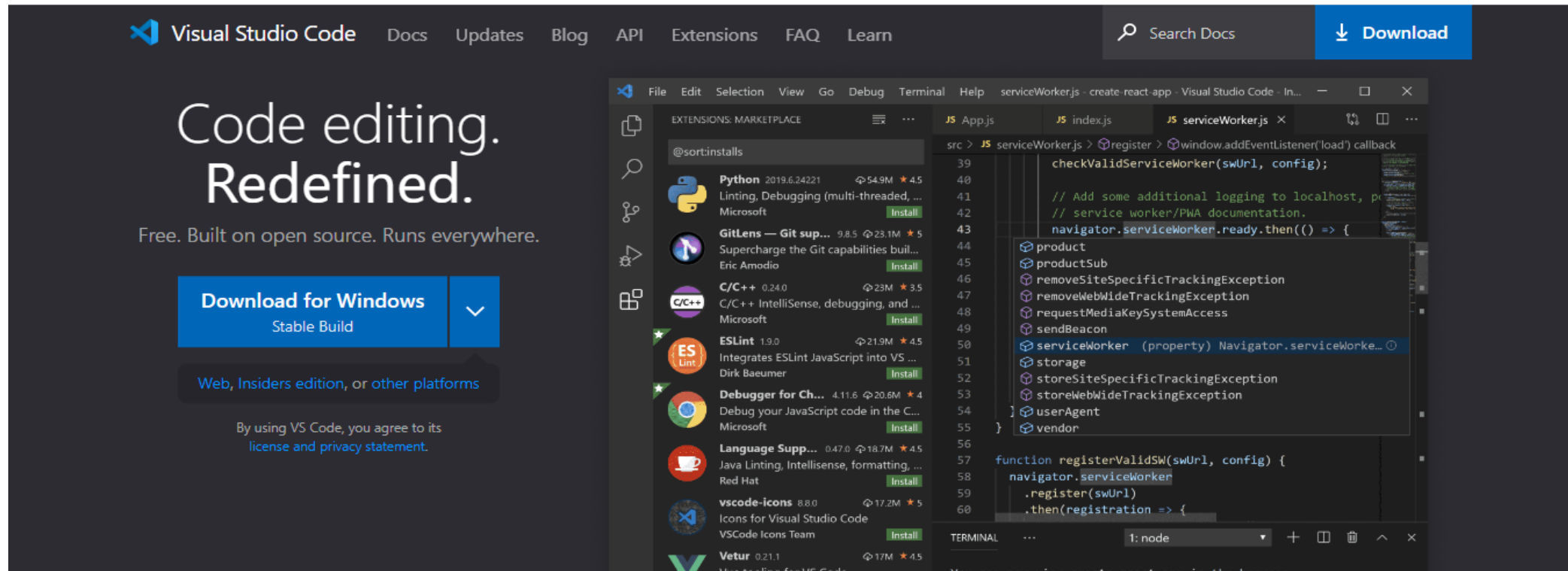
- <https://www.python.org/>

Instalando o Python

1. Inicie a instalação padrão.
2. O Python realizará o processo de *setup*.
3. E finalmente entregará uma mensagem de instalação concluída.



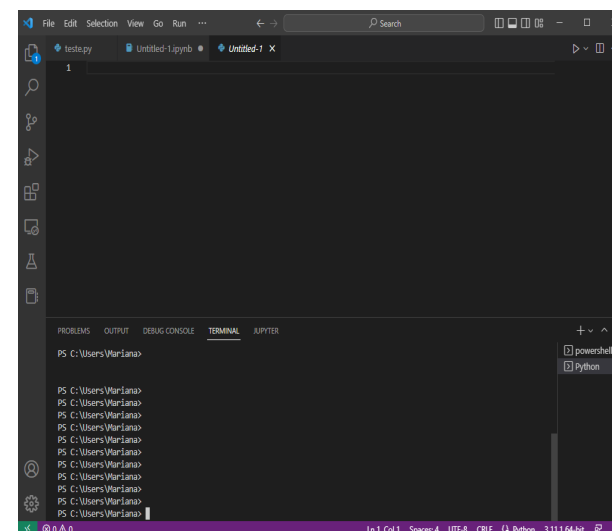
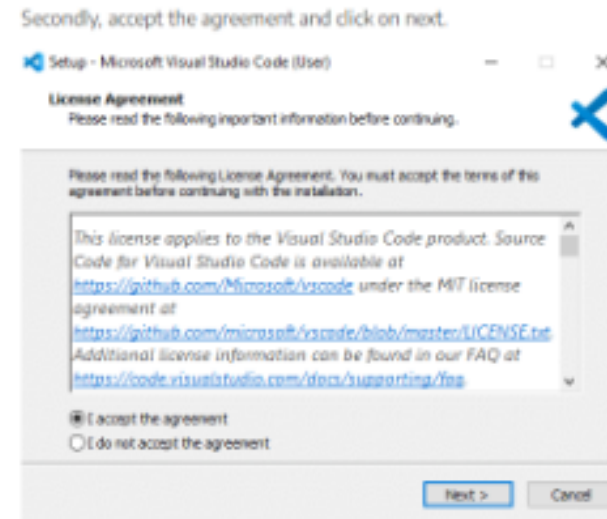
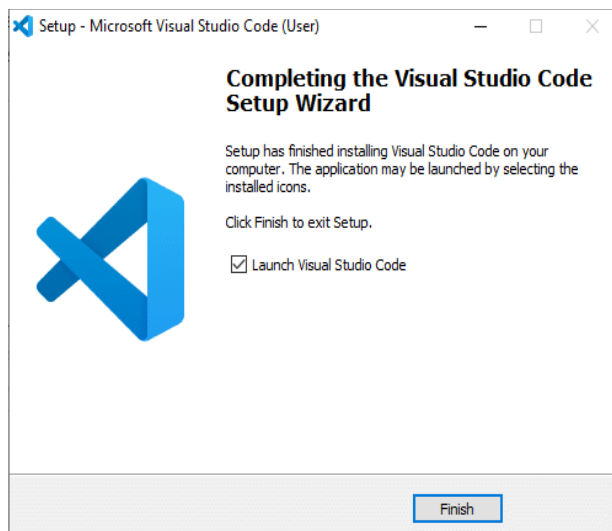
Instalando uma IDE para criar seus códigos



- <https://code.visualstudio.com/>

Instalando VS Code como IDE

- Inicializar o instalar após o download (concordando com os termos)
- Ao final da instalação, o segundo quadro será reportado apresentando a conclusão
- Quando abrir o VS Code, a tela de editor do terceiro quadro será acessível e totalmente editável para o usuário iniciar seu códigos python



Alternativa: Instalar o Anaconda com uma série de pacotes e ambientes já pré-definidos.



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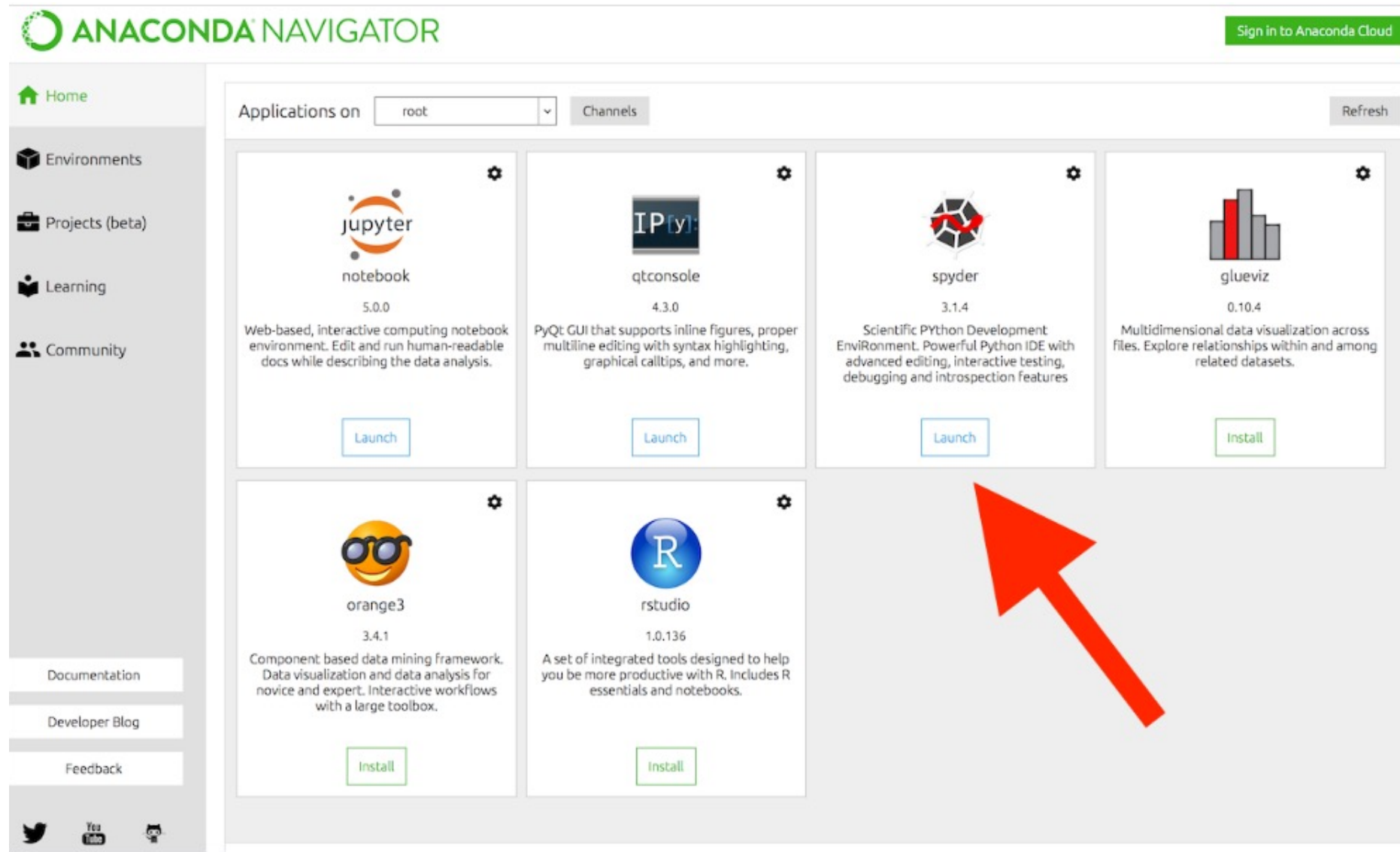
ANACONDA DISTRIBUTION

The world's most popular open-source Python distribution platform

- <https://www.anaconda.com/products/distribution>



Exemplo: Launcher do anaconda onde o usuário pode escolher qual IDE será utilizada para trabalhar



Ambiente Python online através do Google Colab

- O Colab, ou "Colaboratory", permite escrever e executar Python no navegador e conta com o seguinte:
 - Nenhuma configuração necessária
 - Acesso a GPUs sem custo financeiro
 - Compartilhamento fácil
 - Você pode ser um **estudante**, um **cientista de dados** ou um **pesquisador de IA**, o Colab pode facilitar seu trabalho

Fonte: Site do Google Colab -

https://colab.research.google.com/#scrollTo=5fCEDCU_qrCO

- O Colab possui estrutura de notebook python e basta que o aluno tenha uma conta no google drive, para conseguir interagir com dados próprios, utilizando bibliotecas Python.
- Nesta disciplina, **vamos fazer todas as listas e fornecer os gabaritos, utilizando o Google Colab.**

+ Código + Texto | Copiar para o Drive

```
import numpy as np
[ ] from matplotlib import pyplot as plt

ys = 200 + np.random.randn(100)
x = [x for x in range(len(ys))]

plt.plot(x, ys, '-')
plt.fill_between(x, ys, 195, where=(ys > 195), facecolor='g', alpha=0.6)

plt.title("Sample Visualization")
plt.show()
```

