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Antes de Começar

Nesse tutorial, comandos são exibidos **com esta fonte**. Comandos devem ser executados em um terminal. Na maioria das distribuições Linux, basta utilizar a combinação de teclas Control+Alt+T para abrir um terminal. Veja um exemplo de terminal na Figura 1.

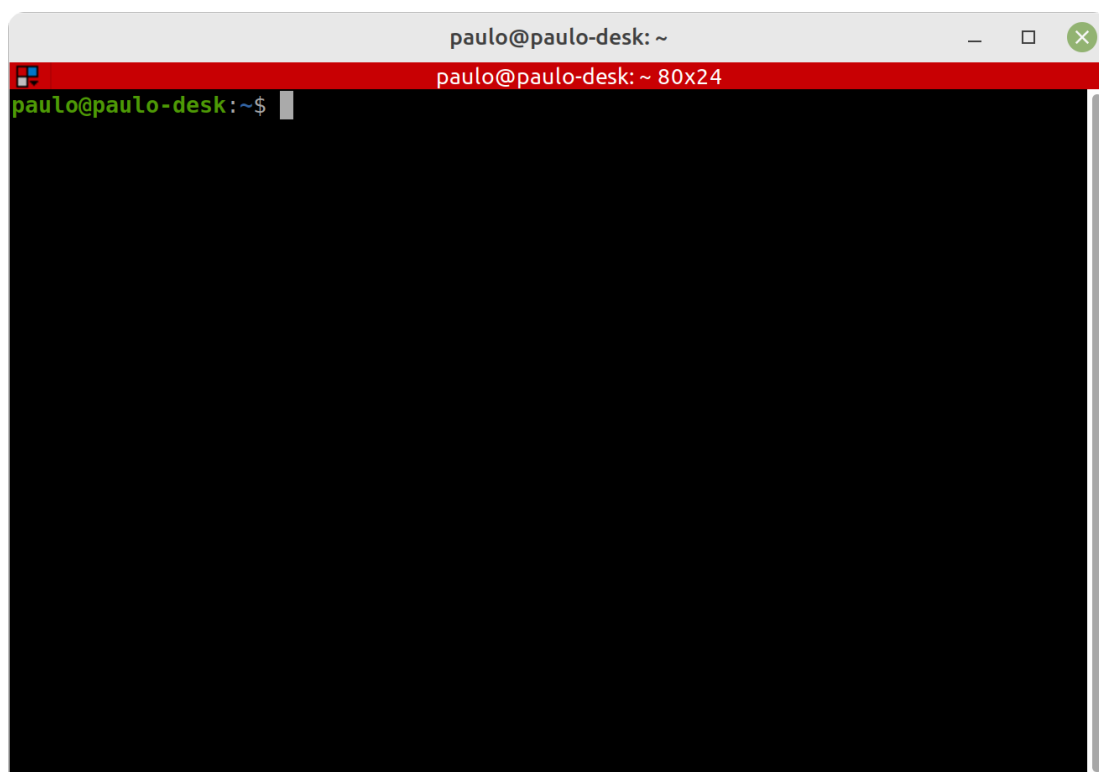


Figura 1 - Exemplo de um Terminal

Instalação do matplotlib

Em um terminal, entre com seguinte comando

pip install matplotlib

O gerenciador de pacotes pip vai baixar e instalar o Matplotlib automaticamente na sua máquina.

Veja um exemplo de resultado da execução do comando na Figura 2.

```
paulo@paulo-notebook: ~
paulo@paulo-notebook: ~ 94x33
paulo@paulo-notebook:~$ pip install matplotlib
/usr/local/lib/python3.8/dist-packages/pkg_resources/_init_.py:116: PkgResourcesDeprecationWarning: 0.1.36ubuntu1 is an invalid version and will not be supported in a future release
  warnings.warn(
Collecting matplotlib
  Downloading matplotlib-3.5.1-cp38-cp38-manylinux_2_5_x86_64.manylinux1_x86_64.whl (11.3 MB)
    | 11.3 MB 66 kB/s
Collecting python-dateutil>=2.7
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    | 247 kB 15.2 MB/s
Collecting kiwisolver>=1.0.1
  Downloading kiwisolver-1.4.0-cp38-cp38-manylinux_2_5_x86_64.manylinux1_x86_64.whl (1.2 MB)
    | 1.2 MB 10.7 MB/s
Requirement already satisfied: pillow>=6.2.0 in /usr/lib/python3/dist-packages (from matplotlib) (7.0.0)
Collecting fonttools>=4.22.0
  Downloading fonttools-4.30.0-py3-none-any.whl (898 kB)
    | 898 kB 13.9 MB/s
Requirement already satisfied: packaging>=20.0 in /usr/lib/python3/dist-packages (from matplotlib) (20.3)
Requirement already satisfied: pyparsing>=2.2.1 in /usr/local/lib/python3.8/dist-packages (from matplotlib) (3.0.6)
Collecting cyclor>=0.10
  Downloading cyclor-0.11.0-py3-none-any.whl (6.4 kB)
Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.8/dist-packages (from matplotlib) (1.22.2)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.8/dist-packages (from python-dateutil>=2.7->matplotlib) (1.16.0)
Installing collected packages: python-dateutil, kiwisolver, fonttools, cyclor, matplotlib
Successfully installed cyclor-0.11.0 fonttools-4.30.0 kiwisolver-1.4.0 matplotlib-3.5.1 python-dateutil-2.8.2
paulo@paulo-notebook:~$
```

Figura 2 - Exemplo de instalação