

Instalando o Jupyter Notebook no Linux

Essa seção inclui instruções como instalar o Jupyter Notebook. Existem várias interfaces de usuário do Jupyter que podem ser usadas, mas a recomendada é utilizar o programa chamado Anaconda para instalar o Python e o Notebook.

O Anaconda instala o python, o jupyter notebook e outros pacotes utilizados para computação científica e ciência de dados. Para efetuar a instalação deste programa, siga os seguintes passos:

- 1- Certifique-se que possui as dependências necessárias para instalação do Anaconda ao executar o comando correto no prompt de acordo com a sua distribuição Linux.

Prerequisites

To use GUI packages with Linux, you will need to install the following extended dependencies for Qt:

Debian	<code>apt-get install libgl1-mesa-glx libegl1-mesa libxrandr2 libxss1 libxcursor1 libxcomposite1 libasound2 libxi6 libxtst6</code>
RedHat	<code>yum install libXcomposite libXcursor libXi libXtst libXrandr alsa-lib mesa-libEGL libXdamage mesa-libGL libXScrnSaver</code>
ArchLinux	<code>pacman -Sy libxau libxi libxss libxtst libxcursor libxcomposite libxdamage libxfixes libxrandr libxrender mesa-libgl alsa-lib libglvnd</code>
OpenSuse/SLES	<code>zypper install libXcomposite1 libXi6 libXext6 libXau6 libX11-6 libXrandr2 libXrender1 libXss1 libXtst6 libXdamage1 libXcursor1 libxcb1 libasound2 libX11-xcb1 Mesa-libGL1 Mesa-libEGL1</code>
Gentoo	<code>emerge x11-libs/libXau x11-libs/libxcb x11-libs/libX11 x11-libs/libXext x11-libs/libXfixes x11-libs/libXrender x11-libs/libXi x11-libs/libXcomposite x11-libs/libXrandr x11-libs/libXcursor x11-libs/libXdamage x11-libs/libXScrnSaver x11-libs/libXtst media-libs/alsa-lib media-libs/mesa</code>

- 2- Após executar o comando, faça download do Anaconda para Linux diretamente do site ou pelo endereço <https://www.anaconda.com/download/#linux>.

Individual Edition is now

ANACONDA DISTRIBUTION

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

Anaconda Distribution

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For Linux
Python 3.9 • 64-Bit (x86) Installer • 659 MB

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Access the open-source software you need for projects in any field, from data visualization to robotics.

User-friendly

With our intuitive platform, you can easily search and install packages and create, load, and switch between environments.

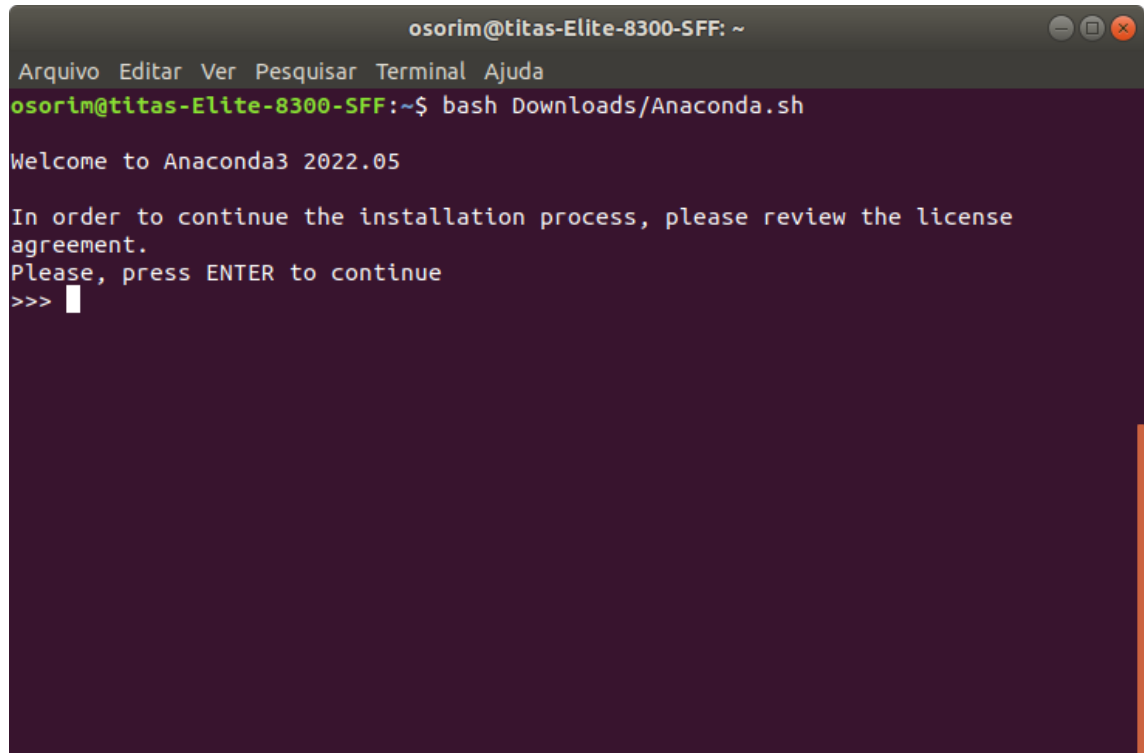
Trusted

Our securely hosted packages and artifacts are methodically tested and

Welcome! 🐍 What brings you to Anaconda today?

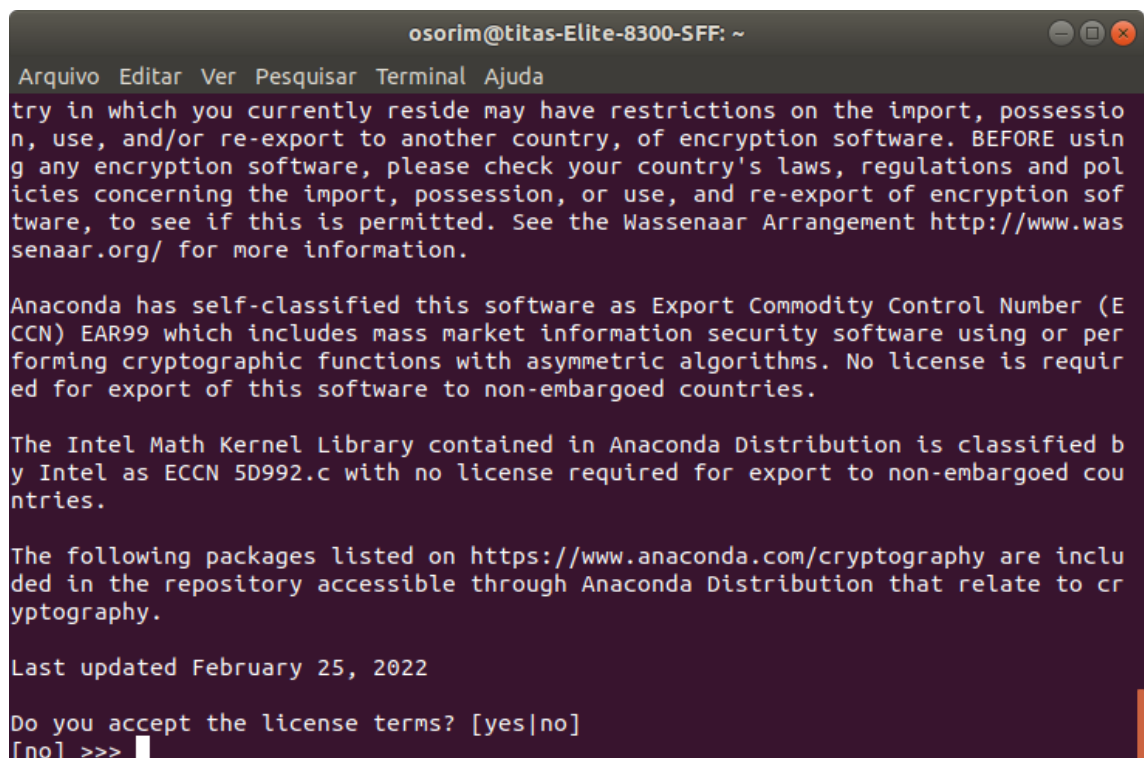
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- 3- Após fazer o download, execute o comando bash com o endereço do arquivo baixado.



```
osorim@titas-Elite-8300-SFF: ~  
Arquivo Editar Ver Pesquisar Terminal Ajuda  
osorim@titas-Elite-8300-SFF:~$ bash Downloads/Anaconda.sh  
  
Welcome to Anaconda3 2022.05  
  
In order to continue the installation process, please review the license  
agreement.  
Please, press ENTER to continue  
>>> 
```

- 4- Após concordar com a licença, basta seguir pressionando a tecla enter. Deve aparecer novamente esse termo, onde deverá ser digitados “yes”



```
osorim@titas-Elite-8300-SFF: ~  
Arquivo Editar Ver Pesquisar Terminal Ajuda  
try in which you currently reside may have restrictions on the import, possession  
n, use, and/or re-export to another country, of encryption software. BEFORE usin  
g any encryption software, please check your country's laws, regulations and pol  
icies concerning the import, possession, or use, and re-export of encryption sof  
ware, to see if this is permitted. See the Wassenaar Arrangement http://www.was  
senaar.org/ for more information.  
  
Anaconda has self-classified this software as Export Commodity Control Number (E  
CCN) EAR99 which includes mass market information security software using or per  
forming cryptographic functions with asymmetric algorithms. No license is requir  
ed for export of this software to non-embargoed countries.  
  
The Intel Math Kernel Library contained in Anaconda Distribution is classified b  
y Intel as ECCN 5D992.c with no license required for export to non-embargoed cou  
ntries.  
  
The following packages listed on https://www.anaconda.com/cryptography are inclu  
ded in the repository accessible through Anaconda Distribution that relate to cr  
yptography.  
  
Last updated February 25, 2022  
  
Do you accept the license terms? [yes|no]  
[no] >>> 
```

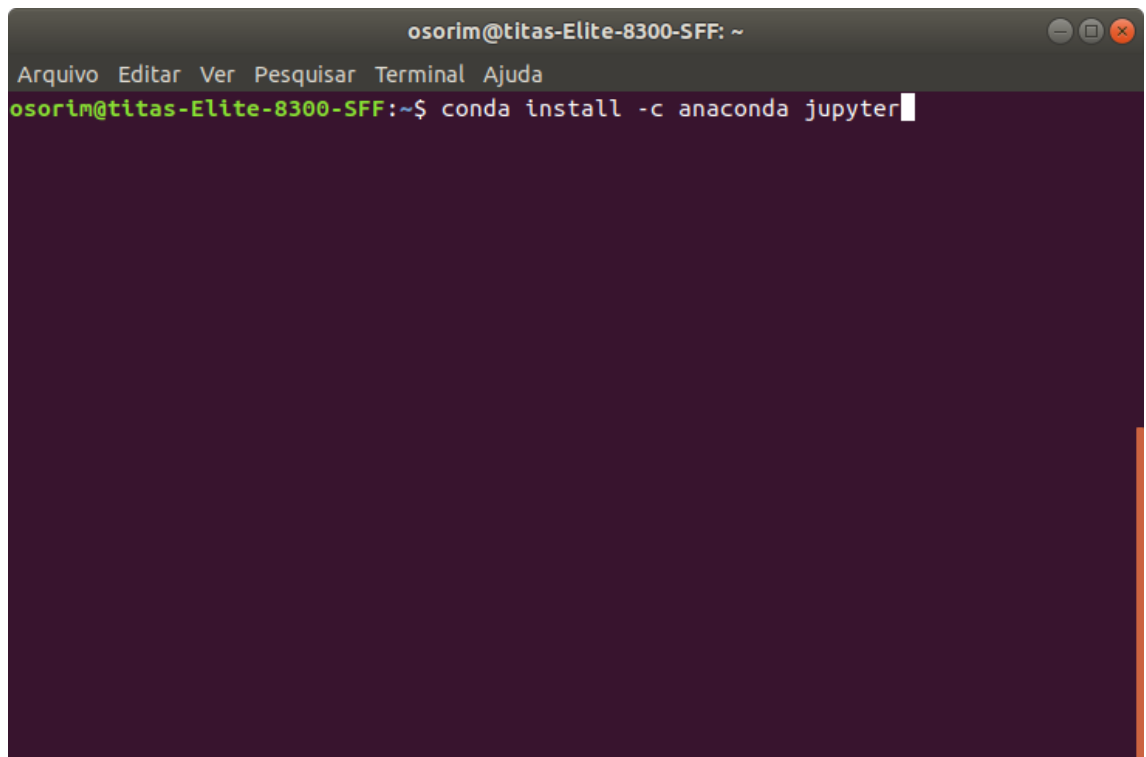
- 5- Após concordar com a licença, você deverá especificar o destino da pasta, que por padrão é a pasta pessoal do usuário.

```
osorim@titas-Elite-8300-SFF: ~  
Arquivo Editar Ver Pesquisar Terminal Ajuda  
forming cryptographic functions with asymmetric algorithms. No license is required for export of this software to non-embargoed countries.  
  
The Intel Math Kernel Library contained in Anaconda Distribution is classified by Intel as ECCN 5D992.c with no license required for export to non-embargoed countries.  
  
The following packages listed on https://www.anaconda.com/cryptography are included in the repository accessible through Anaconda Distribution that relate to cryptography.  
  
Last updated February 25, 2022  
  
Do you accept the license terms? [yes|no]  
[no] >>> yes  
  
Anaconda3 will now be installed into this location:  
/home/osorim/anaconda3  
  
- Press ENTER to confirm the location  
- Press CTRL-C to abort the installation  
- Or specify a different location below  
  
[/home/osorim/anaconda3] >>> 
```

- 6- Quando a instalação terminar, o instalador vai pedir se você deseja inicializar o Anaconda3, você poderá digitar “no” já que nosso objetivo é instalar o Jupyter.

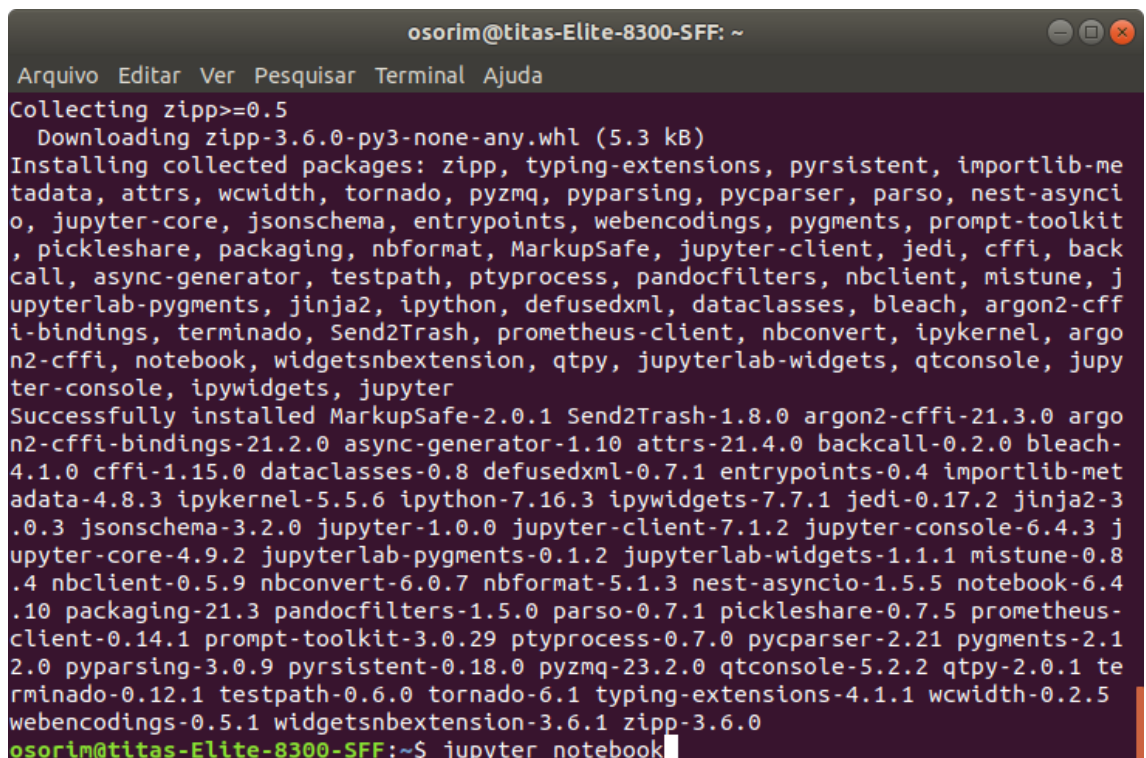
```
osorim@titas-Elite-8300-SFF: ~  
Arquivo Editar Ver Pesquisar Terminal Ajuda  
zope.interface      pkgs/main/linux-64::zope.interface-5.4.0-py39h7f8727e_0  
zstd                pkgs/main/linux-64::zstd-1.4.9-haebb681_0  
  
Preparing transaction: done  
Executing transaction: \   
  
    Installed package of scikit-learn can be accelerated using scikit-learn-intelx.  
    More details are available here: https://intel.github.io/scikit-learn-intelx  
  
    For example:  
  
    $ conda install scikit-learn-intelx  
    $ python -m sklearn my_application.py  
  
done  
installation finished.  
Do you wish the installer to initialize Anaconda3  
by running conda init? [yes|no]  
[no] >>> 
```

- 7- Após terminar o programa, executamos o código de instalação do jupyter, através do comando “conda install -c anaconda jupyter”



```
osorim@titas-Elite-8300-SFF: ~  
Arquivo Editar Ver Pesquisar Terminal Ajuda  
osorim@titas-Elite-8300-SFF:~$ conda install -c anaconda jupyter
```

- 8- Após a execução da instalação, o notebook poderá ser aberto com o comando “jupyter notebook”.



```
osorim@titas-Elite-8300-SFF: ~  
Arquivo Editar Ver Pesquisar Terminal Ajuda  
Collecting zipp>=0.5  
  Downloading zipp-3.6.0-py3-none-any.whl (5.3 kB)  
Installing collected packages: zipp, typing-extensions, pyrsistent, importlib-me  
tadata, attrs, wcwidth, tornado, pyzmq, pyparsing, pycparser, parso, nest-asyn  
cio, jupyter-core, jsonschema, entrypoints, webencodings, pygments, prompt-toolkit  
, pickleshare, packaging, nbformat, MarkupSafe, jupyter-client, jedi, cffi, back  
call, async-generator, testpath, ptyprocess, pandocfilters, nbclient, mistune, j  
upyterlab-pygments, Jinja2, ipython, defusedxml, dataclasses, bleach, argon2-cff  
i-bindings, terminado, Send2Trash, prometheus-client, nbconvert, ipykernel, argo  
n2-cffi, notebook, widgetsnbextension, qtpy, jupyterlab-widgets, qtconsole, jupy  
ter-console, ipywidgets, jupyter  
Successfully installed MarkupSafe-2.0.1 Send2Trash-1.8.0 argon2-cffi-21.3.0 argo  
n2-cffi-bindings-21.2.0 async-generator-1.10.0 attrs-21.4.0 backcall-0.2.0 bleach-  
4.1.0 cffi-1.15.0 dataclasses-0.8 defusedxml-0.7.1 entrypoints-0.4 importlib-met  
adata-4.8.3 ipykernel-5.5.6 ipython-7.16.3 ipywidgets-7.7.1 jedi-0.17.2 Jinja2-3  
.0.3 jsonschema-3.2.0 jupyter-1.0.0 jupyter-client-7.1.2 jupyter-console-6.4.3 j  
upyter-core-4.9.2 jupyterlab-pygments-0.1.2 jupyterlab-widgets-1.1.1 mistune-0.8  
.4 nbclient-0.5.9 nbconvert-6.0.7 nbformat-5.1.3 nest-asyncio-1.5.5 notebook-6.4  
.10 packaging-21.3 pandocfilters-1.5.0 parso-0.7.1 pickleshare-0.7.5 prometheus-  
client-0.14.1 prompt-toolkit-3.0.29 ptyprocess-0.7.0 pycparser-2.21 pygments-2.1  
2.0 pyparsing-3.0.9 pyrsistent-0.18.0 pyzmq-23.2.0 qtconsole-5.2.2 qtpy-2.0.1 te  
rminado-0.12.1 testpath-0.6.0 tornado-6.1 typing-extensions-4.1.1 wcwidth-0.2.5  
webencodings-0.5.1 widgetsnbextension-3.6.1 zipp-3.6.0  
osorim@titas-Elite-8300-SFF:~$ jupyter notebook
```