

Exercicios Conda

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1 Crie ao menos três ambientes conda

- `conda create -n env1`
- `conda create -n env2`
- `conda create -n env3`

Cria 3 ambientes com nomes `env1`, `env2` e `env3`
Para ativar o ambiente:

- `conda activate env1`

2 Liste os ambientes criados

- `conda env list`

3 Instale ao menos dois pacotes em cada ambiente

Com o ambiente `env1` ativo:

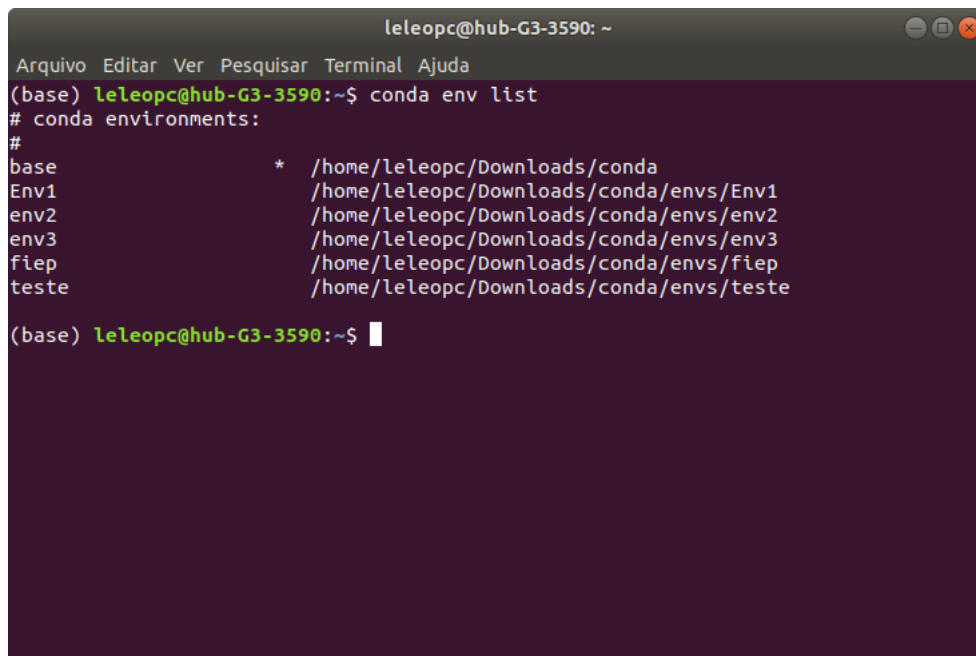
- `conda install astropy`
- `conda install numpy`

Com o ambiente `env2` ativo (`conda activate env2`):

- `conda install astropy`
- `conda install numpy`

Com o ambiente `env3` ativo (`conda activate env3`):

- `conda install astropy`
- `conda install numpy`

A terminal window titled 'leleopc@hub-G3-3590: ~' with a menu bar containing 'Arquivo', 'Editar', 'Ver', 'Pesquisar', 'Terminal', and 'Ajuda'. The terminal shows the command '(base) leleopc@hub-G3-3590:~\$ conda env list' and its output: '# conda environments:', '#', 'base * /home/leleopc/Downloads/conda', 'Env1 /home/leleopc/Downloads/conda/envs/Env1', 'env2 /home/leleopc/Downloads/conda/envs/env2', 'env3 /home/leleopc/Downloads/conda/envs/env3', 'fiep /home/leleopc/Downloads/conda/envs/fiep', 'teste /home/leleopc/Downloads/conda/envs/teste', and '(base) leleopc@hub-G3-3590:~\$' with a cursor.

```
leleopc@hub-G3-3590: ~
Arquivo Editar Ver Pesquisar Terminal Ajuda
(base) leleopc@hub-G3-3590:~$ conda env list
# conda environments:
#
base          *  /home/leleopc/Downloads/conda
Env1          /home/leleopc/Downloads/conda/envs/Env1
env2          /home/leleopc/Downloads/conda/envs/env2
env3          /home/leleopc/Downloads/conda/envs/env3
fiep          /home/leleopc/Downloads/conda/envs/fiep
teste         /home/leleopc/Downloads/conda/envs/teste
(base) leleopc@hub-G3-3590:~$
```

4 Liste os pacotes de cada ambiente

Dentro de cada ambiente:

- conda list

5 Apague um dos ambiente

- conda env remove -n env3

6 O pacote Rstudio está presente no canal conda-forge?

Para procurar o Rstudio:

- conda search Rstudio

7 Quais as dependências instaladas após instalar o python?

- conda install python3
- conda install python=2

```
Aquivo Editar Ver Pesquisar Terminal Ajuda
leleopc@hub-G3-3590 ~$
#
base          * /home/leleopc/Downloads/conda
env1          /home/leleopc/Downloads/conda/envs/env1
env2          /home/leleopc/Downloads/conda/envs/env2
env3          /home/leleopc/Downloads/conda/envs/env3
flap          /home/leleopc/Downloads/conda/envs/flap
teste        /home/leleopc/Downloads/conda/envs/teste

(base) leleopc@hub-G3-3590:~$ conda env activate
CommandNotFoundError: No command 'conda env'.

(base) leleopc@hub-G3-3590:~$ conda activate Env1
(Env1) leleopc@hub-G3-3590:~$ conda list
# packages in environment at /home/leleopc/Downloads/conda/envs/Env1:
#
# Name                    Version            Build                Channel
libgcc_mutex              0.1                main                 conda-forge
astropy                   2.0.14             py27h14c3975_0      conda-forge
blas                      1.0                mkl                  conda-forge
caxcertificates           2019.9.11          hecc5f08_0           conda-forge
certifi                   2019.9.11          py27_0               conda-forge
intel-openmp              2019.4             243                  conda-forge
libedit                   3.1.20181209       hc058e9b_0           conda-forge
libffi                    3.2.1              hd88cf55_4           conda-forge
libgcc-ng                 9.1.0              hdf63c60_0           conda-forge
libgfortran-ng            7.3.0              hdf63c60_0           conda-forge
libstdcxx-ng              9.1.0              hdf63c60_0           conda-forge
mkl                        2019.4             243                  conda-forge
mkl_fft                   1.0.12             py27h843d7b_0        conda-forge
mkl_random                 1.0.2              py27h843d7b_0        conda-forge
more-iterertools          4.3.0              py27_1000            conda-forge
ncurses                    6.1                he67100c_1           conda-forge
numpy                     1.16.4             py27h7e9f10b_0       conda-forge
numpy-base                 1.16.4             py27h843d7b_0        conda-forge
openmpi                    1.0.2              h14c3975_0           conda-forge
packaging                  19.2               py_0                 conda-forge
pip                        19.2.3             py27_0               conda-forge
psutil                     5.5.3              py27h516999a_0       conda-forge
py                           1.0.0              py_0                 conda-forge
pyparsing                  2.4.2              py_0                 conda-forge
pytest                     3.2.2              py_0                 conda-forge
pytest-doctestplus         0.4.0              py_0                 conda-forge
pytest-openfiles           0.4.0              py_0                 conda-forge
python                     2.7.15             h338d71a_1004        conda-forge
readline                   7.0                h7b6447c_5           conda-forge
setuptools                 41.2.0             py27_0               conda-forge
six                         1.11.0             py27_1000            conda-forge
sqlite                     3.29.0             h7b6447c_0           conda-forge
tk                          8.6.8              hbc83047_0           conda-forge
wheel                      0.30.6             py27_0               conda-forge
xz                          5.2.4              h14c3975_4           conda-forge
zlib                       1.2.11             py_0                 conda-forge
(Env1) leleopc@hub-G3-3590:~$
```

8 Instale o pacote Pandas pelo pip

- pip install pandas

9 Monte um ambiente conda novo com python versão 3...

- python3
 - print("teste")
- python=2
 - print"teste"

10 Exporte um dos ambientes criados

- conda env export -n env1 -f env1.yml

```
leleop@hub-G3-3590 ~$ conda env create test1
SpecNotFound: Invalid name, try the format: user/package

(Env1) leleop@hub-G3-3590:~$ conda list
# packages in environment at /home/leleop/Downloads/conda/envs/Env1:
#
# Name                    Version            Build    Channel
libgcc_mutex              0.1                msys2_m... conda-forge
libstdc++                  4.8.5              1401002... conda-forge
certifi                    2019.9.11          h5f8e8db_0 conda-forge
cryptography                2.8.0              h1c33975_0 conda-forge
intel-openmp               2019.4             243        conda-forge
libffi                      3.2.1              h088c855_4 conda-forge
libgcc-ng                  9.1.0              hdf63c60_0 conda-forge
libgfortran-ng             7.3.0              hdf63c60_0 conda-forge
libstdc++-ng               9.1.0              hdf63c60_0 conda-forge
mkl                        2019.4             743        conda-forge
mkl_fft                    1.0.12            py27ha843d7b_0 conda-forge
mkl_random                 1.0.2              py27h8d186a1_0 conda-forge
more-itertools             4.3.0              py27_1000 conda-forge
ncurses                    6.1                h0710b0e_1 conda-forge
numpy                      1.16.4             py27h5e3b40e_0 conda-forge
numpy-base                 1.16.4             py27h5e3b40e_0 conda-forge
openssl                    1.0.2n             h14c3975_0 conda-forge
pip                        19.2               py_0        conda-forge
pip-19.2.3                 19.2.3            py27_0        conda-forge
py                          3.7.3              py27h510989a_0 conda-forge
pycparser                   2.6.2              py_0        conda-forge
pytest                     3.2.2              py_0        conda-forge
pytest-dockertest          0.4.0              py_0        conda-forge
pytest-openfiles           0.4.0              py_0        conda-forge
python                     3.7.3              h33d41f4_1_1000 conda-forge
readline                   7.0                h7b6447c_5 conda-forge
setuptools                  41.2.0             py27_0        conda-forge
six                         1.12.0             py27_1000 conda-forge
sqlite                      3.29.0             h7b6447c_0 conda-forge
tk                          8.6.9              hbc83047_0 conda-forge
wheel                      0.33.6             py27_0        conda-forge
xz                          5.2.4              h14c3975_4 conda-forge
zipp                        0.6.0              py_0        conda-forge
zlib                        1.2.11             h7b6447c_3 conda-forge

(Env1) leleop@hub-G3-3590:~$ conda search rstudio
Loading channels: done
# Name                    Version            Build    Channel
rstudio                   1.0.44             0 pkgs/r
rstudio                   1.0.136            1 pkgs/r
rstudio                   1.0.153            1 pkgs/r
rstudio                   1.1.383            h2c6d6d2_0 pkgs/r
rstudio                   1.1.450            h0b0024c_1 pkgs/r

(Env1) leleop@hub-G3-3590:~$
```

```
leleop@hub-G3-3590 ~$ conda env create test1
SpecNotFound: Invalid name, try the format: user/package

(Env1) leleop@hub-G3-3590:~$ conda list
# packages in environment at /home/leleop/Downloads/conda/envs/Env1:
#
# Name                    Version            Build    Channel
libgcc_mutex              0.1                msys2_m... conda-forge
libstdc++                  4.8.5              1401002... conda-forge
certifi                    2019.9.11          h5f8e8db_0 conda-forge
cryptography                2.8.0              h1c33975_0 conda-forge
intel-openmp               2019.4             243        conda-forge
libffi                      3.2.1              h088c855_4 conda-forge
libgcc-ng                  9.1.0              hdf63c60_0 conda-forge
libgfortran-ng             7.3.0              hdf63c60_0 conda-forge
libstdc++-ng               9.1.0              hdf63c60_0 conda-forge
mkl                        2019.4             743        conda-forge
mkl_fft                    1.0.12            py27ha843d7b_0 conda-forge
mkl_random                 1.0.2              py27h8d186a1_0 conda-forge
more-itertools             4.3.0              py27_1000 conda-forge
ncurses                    6.1                h0710b0e_1 conda-forge
numpy                      1.16.4             py27h5e3b40e_0 conda-forge
numpy-base                 1.16.4             py27h5e3b40e_0 conda-forge
openssl                    1.0.2n             h14c3975_0 conda-forge
pip                        19.2               py_0        conda-forge
pip-19.2.3                 19.2.3            py27_0        conda-forge
py                          3.7.3              py27h510989a_0 conda-forge
pycparser                   2.6.2              py_0        conda-forge
pytest                     3.2.2              py_0        conda-forge
pytest-dockertest          0.4.0              py_0        conda-forge
pytest-openfiles           0.4.0              py_0        conda-forge
python                     3.7.3              h33d41f4_1_1000 conda-forge
readline                   7.0                h7b6447c_5 conda-forge
setuptools                  41.2.0             py27_0        conda-forge
six                         1.12.0             py27_1000 conda-forge
sqlite                      3.29.0             h7b6447c_0 conda-forge
tk                          8.6.9              hbc83047_0 conda-forge
wheel                      0.33.6             py27_0        conda-forge
xz                          5.2.4              h14c3975_4 conda-forge
zipp                        0.6.0              py_0        conda-forge
zlib                        1.2.11             h7b6447c_3 conda-forge

(Env1) leleop@hub-G3-3590:~$ conda search rstudio
Loading channels: done
# Name                    Version            Build    Channel
rstudio                   1.0.44             0 pkgs/r
rstudio                   1.0.136            1 pkgs/r
rstudio                   1.0.153            1 pkgs/r
rstudio                   1.1.383            h2c6d6d2_0 pkgs/r
rstudio                   1.1.450            h0b0024c_1 pkgs/r

(Env1) leleop@hub-G3-3590:~$
```

```
Arquivo Editor VIM Desquiar Terminal Ajuda
Total: 46.2 MB

The following NEW packages will be INSTALLED:

libgcc_mutex          pkgs/main/linux-64::libgcc_mutex-0.1-main
bzip2                 conda-forge/linux-64::bzip2-1.0.8-h516909a_1
ca-certificates       conda-forge/linux-64::ca-certificates-2019.9.11-hecc5488_0
certifi               conda-forge/linux-64::certifi-2019.9.11-py37_0
libffi                conda-forge/linux-64::libffi-3.2.1-he155544_1006
libgcc-ng             pkgs/main/linux-64::libgcc-ng-9.1.0-hdf63c60_0
libstdc++-ng         pkgs/main/linux-64::libstdc++-ng-9.1.0-hdf63c60_0
ncurses               conda-forge/linux-64::ncurses-6.1-hf484d3e_1002
openssl               conda-forge/linux-64::openssl-1.1.1c-h516909a_0
pip                  conda-forge/linux-64::pip-19.2.3-py37_0
python               conda-forge/linux-64::python-3.7.3-h3d41f4_1
readline              conda-forge/linux-64::readline-8.0-hf4437e_0
setuptools            conda-forge/linux-64::setuptools-41.2.0-py37_0
sqlite                conda-forge/linux-64::sqlite-3.29.0-hce4e1ef_1
tk                    conda-forge/linux-64::tk-8.6.9-hed0090b_1003
wheel                 conda-forge/linux-64::wheel-0.31.0-py37_0
xz                    conda-forge/linux-64::xz-5.2.4-h146397f_1001
zlib                  conda-forge/linux-64::zlib-1.2.11-h516909a_1006

Proceed ([y]/n)? y

Downloading and Extracting Packages
wheel-0.31.0 | 135 KB | ##### 100%
setuptools-41.2.0 | 635 KB | ##### 100%
pip-19.2.3 | 1.9 MB | ##### 100%
ncurses-6.1 | 1.3 MB | ##### 100%
readline-8.0 | 441 KB | ##### 100%
bzip2-1.0.8 | 397 KB | ##### 100%
libffi-3.2.1 | 46 KB | ##### 100%
zlib-1.2.11 | 103 KB | ##### 100%
sqlite-3.29.0 | 1.9 MB | ##### 100%
python-3.7.3 | 36.0 MB | ##### 100%
xz-5.2.4 | 366 KB | ##### 100%
tk-8.6.9 | 3.2 MB | ##### 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(boom) teleop@hub-G3-3590:~$ python3
Python 3.7.3 | packaged by conda-forge | (default, Jul 1 2019, 21:52:21)
[GCC 7.3.0] on linux64: Anaconda, Inc. on linux
Type "help", "copyright", "credits" or "license()" for more information.
>>> print("teste")
teste
>>> print "teste"
File "stdin", line 1
    print "teste"
    ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print("teste")?
>>>
```

Figure 1: Caption