

Exercícios Env. Everton Savio Santos Lucas

1. Crie ao menos três ambientes conda
conda create -n (nome_do_ambiente)

2. Liste os ambientes criados

```
(base) savio@hub-G3-3590:~$ conda-env list
# conda environments:
#
base                *  /home/savio/miniconda3
env01               /home/savio/miniconda3/envs/env01
env02               /home/savio/miniconda3/envs/env02
env03               /home/savio/miniconda3/envs/env03
(base) savio@hub-G3-3590:~$
```

3. Instale ao menos dois pacotes em cada ambiente

conda search (nome_do_pacote) ex: python

conda install (nome_do_pacote) ex: python

4. Liste os pacotes de cada ambiente

conda list

```
savio@hub-G3-3590: ~ 82x18
curses                6.1                he6710b0_1
numpy                 1.17.2             py37haad9e8e_0
numpy-base            1.17.2             py37hde5b4d6_0
openssl               1.1.1d             h7b6447c_2
pandas                0.25.1             pypi_0         pypi
pip                   19.2.3             py37_0
python                 3.7.4              h265db76_1
python-dateutil        2.8.0              pypi_0         pypi
pytz                  2019.2             pypi_0         pypi
readline              7.0                h7b6447c_5
setuptools             41.2.0             py37_0
six                   1.12.0             py37_0
sqlite                 3.29.0             h7b6447c_0
tk                     8.6.8              hbc83047_0
wheel                  0.33.6             py37_0
xz                     5.2.4              h14c3975_4
zlib                   1.2.11             h7b6447c_3
(env01) savio@hub-G3-3590:~$
```

5. Apague um dos ambientes

conda-env remove -n (nome_do_ambiente) dica: Precisa estar na (base) ativa

```
savio@hub-G3-3590: ~ 82x18
#
base * /home/savio/miniconda3
env01 /home/savio/miniconda3/envs/env01
env02 /home/savio/miniconda3/envs/env02
env03 /home/savio/miniconda3/envs/env03

(base) savio@hub-G3-3590:~$ conda-env remove -n env03
# Remove all packages in environment /home/savio/miniconda3/envs/env03:
# Remove environment /home/savio/miniconda3/envs/env03
# Remove command

(base) savio@hub-G3-3590:~$ conda-env list
# conda environments:
#
base * /home/savio/miniconda3
env01 /home/savio/miniconda3/envs/env01
env02 /home/savio/miniconda3/envs/env02

(base) savio@hub-G3-3590:~$
```

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

```
(base) savio@hub-G3-3590:~$ conda search rstudio --channel conda-forge
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 h2c9cdda_2 pkgs/r
rstudio 1.1.456 h6bb024c_1 pkgs/r
(base) savio@hub-G3-3590:~$
```

7. Quais as dependências instaladas após instalar o python?

```
(base) savio@hub-G3-3590:~$ conda activate env01
(env01) savio@hub-G3-3590:~$ conda list
# packages in environment at /home/savio/miniconda3/envs/env01:
# Name Version Build Channel
libgcc_mutex 0.1 main
blas 1.0 mkl
ca-certificates 2019.8.28 0
certifi 2019.9.11 py37_0
intel-openmp 2019.4 243
libedit 3.1.20181209 hc058e9b_0
libffi 3.2.1 hd88cf55_4
libgcc-ng 9.1.0 hdf63c60_0
libgfortran-ng 7.3.0 hdf63c60_0
libstdcxx-ng 9.1.0 hdf63c60_0
mkl 2019.4 243
mkl-service 2.3.0 py37he904b0f_0
mkl_fft 1.0.14 py37ha843d7b_0
mkl_random 1.1.0 py37hd6b4f25_0
ncurses 6.1 he6710b0_1
numpy 1.17.2 py37haad9e8e_0
numpy-base 1.17.2 py37hde5b4d6_0
openssl 1.1.1d h7b6447c_2
pandas 0.25.1 pypi_0 pypi
pip 19.2.3 py37_0
python 3.7.4 h265db76_1
python-dateutil 2.8.0 pypi_0 pypi
pytz 2019.2 pypi_0 pypi
readline 7.0 h7b6447c_5
setuptools 41.2.0 py37_0
six 1.12.0 py37_0
sqlite 3.29.0 h7b6447c_0
tk 8.6.8 hbc83047_0
wheel 0.33.6 py37_0
xz 5.2.4 h14c3975_4
zlib 1.2.11 h7b6447c_3
(env01) savio@hub-G3-3590:~$
```

8. Instale o pacote Pandas pelo pip

conda install (nome_do_pacote) ex: pandas

9. Monte um ambiente conda novo com python versão 3 Execute o comando python para entrar no interpretador python A partir do interpretador execute o comando print "teste" Após terminar a execução execute ctrl+d para sair do interpretador Qual é o erro apresentado? O que deve ser feito para o print funcionar? Verifique se o mesmo comando apresenta erro no python 2

```
savio@hub-G3-3590: ~  
savio@hub-G3-3590: ~ 82x21  
python 3.7.4 h265db76_1  
python-dateutil 2.8.0 pypi_0 pypi  
pytz 2019.2 pypi_0 pypi  
readline 7.0 h7b6447c_5  
setuptools 41.2.0 py37_0  
six 1.12.0 py37_0  
sqlite 3.29.0 h7b6447c_0  
tk 8.6.8 hbc83047_0  
wheel 0.33.6 py37_0  
xz 5.2.4 h14c3975_4  
zlib 1.2.11 h7b6447c_3  
(env01) savio@hub-G3-3590:~$ python  
Python 3.7.4 (default, Aug 13 2019, 20:35:49)  
[GCC 7.3.0] :: Anaconda, Inc. on linux  
Type "help", "copyright", "credits" or "license" for more information.  
>>> print "teste"  
File "<stdin>", line 1  
    print "teste"  
SyntaxError: Missing parentheses in call to 'print'. Did you mean print("teste")?  
>>>  
savio@hub-G3-3590: ~ 82x18  
libstdc++-ng 9.1.0 hdf63c60_0  
ncurses 6.1 he6710b0_1  
openssl 1.1.1d h7b6447c_2  
pip 19.2.3 py27_0  
python 2.7.16 h9bab390_7  
readline 7.0 h7b6447c_5  
setuptools 41.2.0 py27_0  
sqlite 3.29.0 h7b6447c_0  
tk 8.6.8 hbc83047_0  
wheel 0.33.6 py27_0  
zlib 1.2.11 h7b6447c_3  
(env02) savio@hub-G3-3590:~$ python  
Python 2.7.16 |Anaconda, Inc.| (default, Sep 24 2019, 21:51:30)  
[GCC 7.3.0] on linux2  
Type "help", "copyright", "credits" or "license" for more information.  
>>> print "teste"  
teste  
>>>
```

10. Exporte um dos ambientes criados e passe por email para todos os alunos


```
savio@hub-G3-3590: ~
savio@hub-G3-3590: ~ 82x21
sqlite 3.29.0 h7b6447c_0
tk 8.6.8 hbc83047_0
wheel 0.33.6 py37_0
xz 5.2.4 h14c3975_4
zlib 1.2.11 h7b6447c_3
(env01) savio@hub-G3-3590:~$ python
Python 3.7.4 (default, Aug 13 2019, 20:35:49)
[GCC 7.3.0] :: Anaconda, Inc. on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print "teste"
File "<stdin>", line 1
printprint"teste"
^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print("teste")?
>>> exit()
(env01) savio@hub-G3-3590:~$ conda-env export -n env01 -f env01.yml
conda-env: comando não encontrado
(env01) savio@hub-G3-3590:~$ conda deactivate
(base) savio@hub-G3-3590:~$ conda-env export -n env01 -f env01.yml
(base) savio@hub-G3-3590:~$ conda-env export -n env02 -f env02.yml
(base) savio@hub-G3-3590:~$
```

11. Escolha um dos ambientes enviados e monte no seu computador

```
savio@hub-G3-3590: ~ 82x9
(base) savio@hub-G3-3590:~$ conda-env create -f env01.yml
Collecting package metadata (repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
  current version: 4.7.10
  latest version: 4.7.12
```

Crie um documento mostrando a sequência de comandos executado e as telas retornadas.