# IA2 - Exercícios Conda Gabriela Yukari Kimura

#### **Ambientes criados**

conda create -n ambiente conda create -n exemplo conda create -n teste

## Pacotes do ambiente AMBIENTE (Scipy, Sqlite)

conda activate ambiente conda install scipy sqlite conda list

```
(ambiente) gykimura@hub-G3-3590:~/Documentos/conda$ conda list
 packages in environment at /home/gykimura/miniconda3/envs/ambiente:
# Name
                           Version
                                                      Build Channel
libgcc_mutex
                           0.1
                                                       main
blas
                                                        mkl
                           1.0
ca-certificates
                           2019.8.28
certifi
                           2019.9.11
                                                     pv37 0
intel-openmp
                           2019.4
                                                        243
libedit
                          3.1.20181209
                                                hc058e9b 0
libffi
                          3.2.1
                                                hd88cf55 4
                           9.1.0
                                                hdf63c60 0
libgcc-ng
libgfortran-ng
                           7.3.0
                                                hdf63c60 0
libstdcxx-ng
                          9.1.0
                                                hdf63c60 0
mkl
                           2019.4
                                                        243
mkl-service
                                            py37he904b0f 0
                           2.3.0
mkl_fft
                           1.0.14
                                            py37ha843d7b 0
mkl random
                           1.1.0
                                            py37hd6b4f25 0
ncurses
                           6.1
                                                he6710b0 1
                           1.17.2
                                            py37haad9e8e 0
numpy
numpy-base
                           1.17.2
                                            py37hde5b4d6_0
openssl
                           1.1.1d
                                                h7b6447c 2
pip
                           19.2.3
                                                     py37_0
python
                           3.7.4
                                                h265db76 1
readline
                           7.0
                                                h7b6447c 5
scipy
                           1.3.1
                                            py37h7c811a0 0
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
                           5.2.4
                                                h14c3975 4
ΚZ
zlib
                           1.2.11
                                                h7b6447c 3
```

# Pacotes do ambiente TESTE (Numpy, Matplotlib)

conda activate teste conda install numpy matplotlib conda list

	700		
# 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	
cycler	0.10.0	py37_0	
dbus	1.13.6	h746ee38_0	
expat	2.2.6	he6710b0_0	
fontconfig	2.13.0	h9420a91_0	
freetype	2.9.1	h8a8886c_1	
glib	2.56.2	hd408876_0	
gst-plugins-base	1.14.0	hbbd80ab_1	
gstreamer	1.14.0	hb453b48_1	
icu	58.2	h9c2bf20_1	
intel-openmp	2019.4	243	
jpeg	9b	h024ee3a_2	
kiwisolver	1.1.0	py37he6710b0_0	
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	
libpng	1.6.37	hbc83047_0	
libstdcxx-ng	9.1.0	hdf63c60_0	
libuuid	1.0.3	h1bed415_2	
libxcb	1.13	h1bed415_1	
libxml2	2.9.9	hea5a465_1	
matplotlib	3.1.1	py37h5429711_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	
pcre	8.43	he6710b0_0	
pip	19.2.3	py37_0	
pyparsing	2.4.2	ру_0	
pyqt	5.9.2	py37h05f1152_2	
python	3.7.4	h265db76_1	
python-dateutil	2.8.0	py37_0	
pytz	2019.2	py_0	
qt	5.9.7	h5867ecd_1	
readline	7.0	h7b6447c_5	
setuptools	41.2.0	py37_0	
sip	4.19.8	py37hf484d3e_0	
six	1.12.0	py37_0	
sqlite	3.29.0	h7b6447c_0	
tk	8.6.8	hbc83047_0	
tornado	6.0.3	py37h7b6447c_0	
wheel	0.33.6	py37_0	
XZ	5.2.4	h14c3975_4	
zlib	1.2.11	h7b6447c_3	

## Pacotes do ambiente EXEMPLO (Atom, Python versão 2.7.16)

conda create -n exemplo conda activate exemplo conda install atom conda install python=2.7.16 conda list

```
(exemplo) gykimura@hub-G3-3590:~/Documentos/conda$ conda list
# packages in environment at /home/gykimura/miniconda3/envs/exemplo:
# Name
                          Version
                                                    Build Channel
libgcc mutex
                          0.1
                                                     main
                          0.4.3
                                           py27hfd86e86 0
atom
ca-certificates
                          2019.8.28
certifi
                          2019.9.11
                                                   py27 0
future
                          0.17.1
                                                   pv27 0
libedit
                          3.1.20181209
                                               hc058e9b 0
libffi
                          3.2.1
                                               hd88cf55 4
libgcc-ng
                          9.1.0
                                               hdf63c60 0
libstdcxx-ng
                                               hdf63c60 0
                          9.1.0
                          6.1
ncurses
                                               he6710b0 1
openssl
                          1.1.1d
                                               h7b6447c 2
                          19.2.3
pip
                                                   py27 0
python
                          2.7.16
                                               h9bab390 7
readline
                                               h7b6447c 5
                          7.0
setuptools
                          41.2.0
                                                   py27_0
sqlite
                          3.29.0
                                               h7b6447c 0
tk
                                               hbc83047 0
                          8.6.8
wheel
                          0.33.6
                                                   py27_0
zlib
                          1.2.11
                                               h7b6447c_3
(exemplo) gykimura@hub-G3-3590:~/Documentos/conda$
```

# **5.** conda-env remove -n ambiente conda-env list

```
(base) gykimura@hub-G3-3590:~/Documentos/conda$ conda-env list
# conda environments:
#
base * /home/gykimura/miniconda3
exemplo /home/gykimura/miniconda3/envs/exemplo
teste /home/gykimura/miniconda3/envs/teste
```

**6.** O pacote Rstudio está presente no canal conda-forge. conda search Rstudio --chanel conda-forge

```
(base) gykimura@hub-G3-3590:~$ conda search Rstudio --channel conda-forge
Loading channels: done
# Name
                                                Build Channel
                             Version
rstudio
                               1.0.44
                                                       pkqs/r
rstudio
                              1.0.136
                                                    1
                                                       pkgs/r
rstudio
                              1.0.153
                                                       pkgs/r
rstudio
                              1.1.383
                                           h2c9cdda 2
                                                       pkgs/r
rstudio
                              1.1.456
                                           h6bb024c 1
                                                       pkgs/r
```

**7.** As dependências para instalar o python podem ser visualizadas na imagem abaixo. conda install python

```
- python
The following NEW packages will be INSTALLED:
 libgcc mutex
                     pkgs/main/linux-64:: libgcc mutex-0.1-main
 ca-certificates
                     pkgs/main/linux-64::ca-certificates-2019.8.28-0
 certifi
                     pkgs/main/linux-64::certifi-2019.9.11-py37_0
 libedit
                     pkgs/main/linux-64::libedit-3.1.20181209-hc058e9b_0
 libffi
                     pkgs/main/linux-64::libffi-3.2.1-hd88cf55 4
 libgcc-ng
                     pkgs/main/linux-64::libgcc-ng-9.1.0-hdf63c60 0
                     pkgs/main/linux-64::libstdcxx-ng-9.1.0-hdf63c60 0
 libstdcxx-ng
                     pkgs/main/linux-64::ncurses-6.1-he6710b0 1
 ncurses
 openssl
                     pkgs/main/linux-64::openssl-1.1.1d-h7b6447c 2
 pip
                     pkgs/main/linux-64::pip-19.2.3-py37 0
                     pkgs/main/linux-64::python-3.7.4-h265db76 1
 python
 readline
                     pkgs/main/linux-64::readline-7.0-h7b6447c 5
                     pkgs/main/linux-64::setuptools-41.2.0-py37_0
 setuptools
 sqlite
                     pkgs/main/linux-64::sqlite-3.29.0-h7b6447c 0
 tk
                     pkgs/main/linux-64::tk-8.6.8-hbc83047_0
                     pkgs/main/linux-64::wheel-0.33.6-py37 0
 wheel
                     pkgs/main/linux-64::xz-5.2.4-h14c3975 4
 XZ
 zlib
                     pkgs/main/linux-64::zlib-1.2.11-h7b6447c 3
```

#### 8.

pip install pandas

```
(base) gykimura@hub-G3-3590:~$ conda activate teste
(teste) gykimura@hub-G3-3590:~$ pip install pandas
Collecting pandas
 Using cached https://files.pythonhosted.org/packages/7e/ab/ea76361f9d3e732e114
adcd801d2820d5319c23d0ac5482fa3b412db217e/pandas-0.25.1-cp37-cp37m-manylinux1 x8
6 64.whl
Requirement already satisfied: numpy>=1.13.3 in ./miniconda3/envs/teste/lib/pyth
on3.7/site-packages (from pandas) (1.17.2)
Requirement already satisfied: pytz>=2017.2 in ./miniconda3/envs/teste/lib/pytho
n3.7/site-packages (from pandas) (2019.2)
Requirement already satisfied: python-dateutil>=2.6.1 in ./miniconda3/envs/teste
/lib/python3.7/site-packages (from pandas) (2.8.0)
Requirement already satisfied: six>=1.5 in ./miniconda3/envs/teste/lib/python3.7
/site-packages (from python-dateutil>=2.6.1->pandas) (1.12.0)
Installing collected packages: pandas
Successfully installed pandas-0.25.1
```

#### 9.

No python versão 2, **print** é uma palavra reservada, e portanto o que deve ser impresso pode ser colocado logo em seguida. Já no python versão 3, **print** é uma função e por isso, o texto a ser impresso deve enviado como parâmetro, entre parênteses. print ("teste")

#### 10.

#### Ambiente exportado

conda-env export -n ambiente -f amb-exemplo.yml

#### 11.

#### **Ambiente importado**