### **DUAN CLEYPAUL**

1. Crie ao menos três ambientes conda

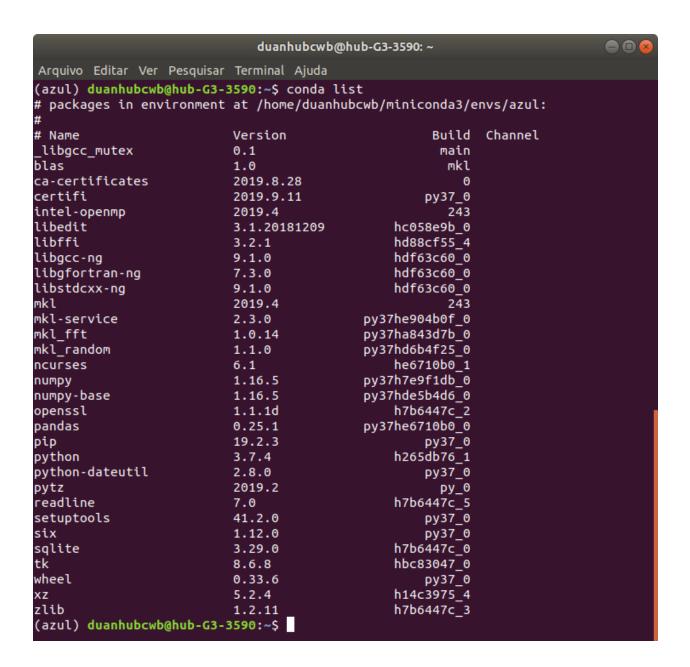
```
duanhubcwb@hub-G3-3590: ~
                                                                           Arquivo Editar Ver Pesquisar Terminal Ajuda
(base) duanhubcwb@hub-G3-3590:~$ conda create -n verde
Collecting package metadata (current_repodata.json): done
Solving environment: done
==> WARNING: A newer version of conda exists. <==
 current version: 4.7.10
 latest version: 4.7.12
Please update conda by running
    $ conda update -n base -c defaults conda
## Package Plan ##
 environment location: /home/duanhubcwb/miniconda3/envs/verde
Proceed ([y]/n)? y
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
# To activate this environment, use
#
      $ conda activate verde
# To deactivate an active environment, use
      S conda deactivate
(base) duanhubcwb@hub-G3-3590:~$
```

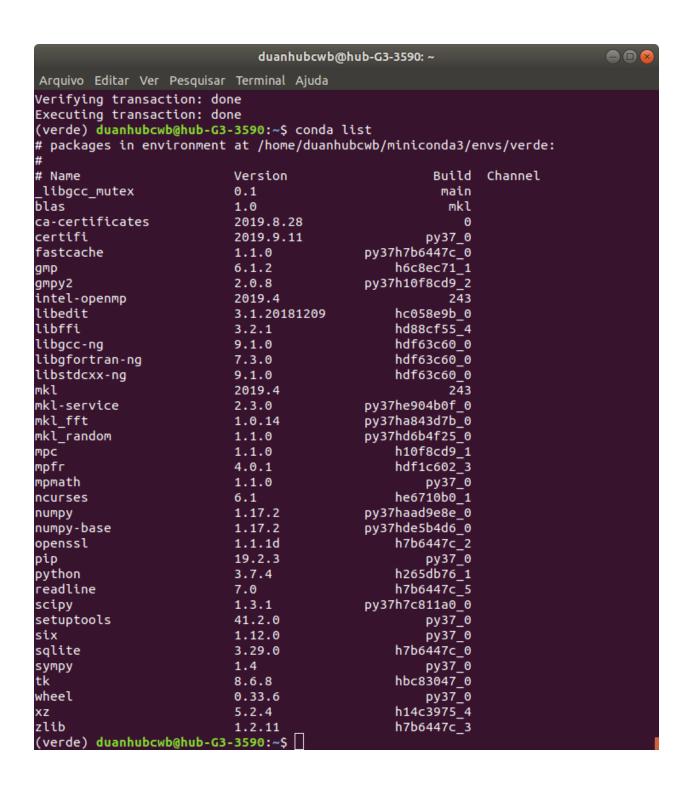
## 2. Liste os ambientes criados

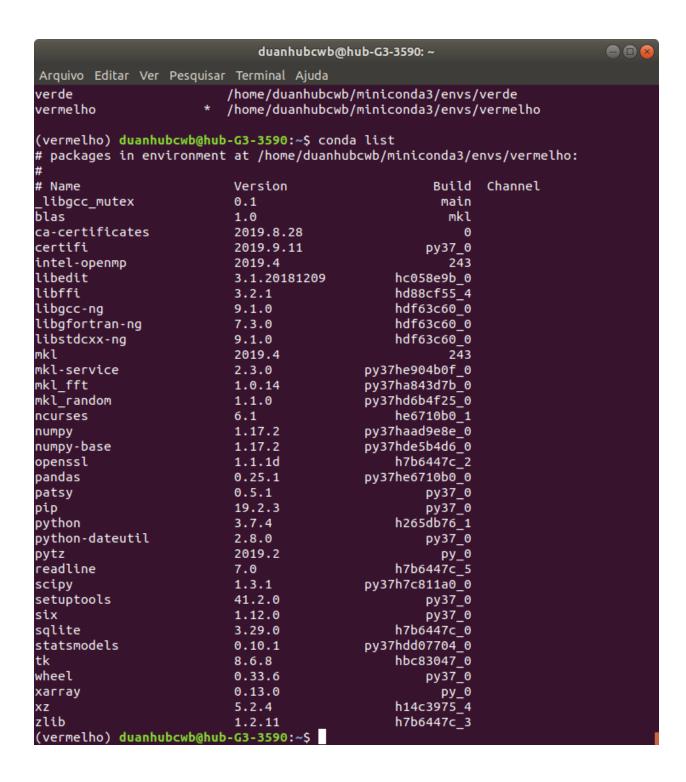
3. Instale ao menos dois pacotes em cada ambiente

```
duanhubcwb@hub-G3-3590: ~
                                                                       Arquivo Editar Ver Pesquisar Terminal Ajuda
                           1.17.2 py37hf9bf1b6_0 pkgs/main
(azul) duanhubcwb@hub-G3-3590:~$ conda install numpy=1.16.5
Collecting package metadata (current_repodata.json): done
Solving environment: failed with current_repodata.json, will retry with next rep
odata source.
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
Please update conda by running
   $ conda update -n base -c defaults conda
## Package Plan ##
 environment location: /home/duanhubcwb/miniconda3/envs/azul
 added / updated specs:
   - numpy=1.16.5
The following packages will be downloaded:
                                          build
   package
                             numpy-1.16.5
   numpy-base-1.16.5
                                         Total: 4.4 MB
The following NEW packages will be INSTALLED:
                    pkgs/main/linux-64::_libgcc_mutex-0.1-main
  libgcc_mutex
 blas
                    pkgs/main/linux-64::blas-1.0-mkl
                    pkgs/main/linux-64::ca-certificates-2019.8.28-0
 ca-certificates
 certifi
                    pkgs/main/linux-64::certifi-2019.9.11-py37_0
 intel-openmp
                    pkgs/main/linux-64::intel-openmp-2019.4-243
```

4. Liste os pacotes de cada ambiente







# 5. Apague um dos ambientes

```
duanhubcwb@hub-G3-3590: ~
                                                                            Arquivo Editar Ver Pesquisar Terminal Ajuda
(base) duanhubcwb@hub-G3-3590:~$ conda env remove -n branco
Remove all packages in environment /home/duanhubcwb/miniconda3/envs/branco:
(base) duanhubcwb@hub-G3-3590:~$ conda env list
# conda environments:
                         /home/duanhubcwb/miniconda3
base
                         /home/duanhubcwb/miniconda3/envs/azul
azul
                         /home/duanhubcwb/miniconda3/envs/verde
verde
vermelho
                         /home/duanhubcwb/miniconda3/envs/vermelho
(base) duanhubcwb@hub-G3-3590:~$
```

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

```
duanhubcwb@hub-G3-3590: ~
                                                                            Arquivo Editar Ver Pesquisar Terminal Ajuda
(base) duanhubcwb@hub-G3-3590:~$ conda search Rstudio --channel conda-forge
Loading channels: done
                                               Build Channel
# Name
                             Version
                              1.0.44
rstudio
                                                   0
                                                       pkgs/r
rstudio
                             1.0.136
                                                       pkgs/r
                                                    1
rstudio
                             1.0.153
                                                       pkgs/r
rstudio
                                          h2c9cdda_2
                                                       pkgs/r
                             1.1.383
rstudio
                             1.1.456
                                          h6bb024c_1 pkgs/r
(base) duanhubcwb@hub-G3-3590:~$
```

Nao!

## 7. Quais as dependências instaladas após instalar o python?

```
(cinza) duanhubcwb@hub-G3-3590:~$ conda list
# packages in environment at /home/duanhubcwb/miniconda3/envs/cinza:
# Name
                                                     Build Channel
                          Version
libgcc mutex
                          0.1
                                                      main
ca-certificates
                          2019.8.28
                                                         0
certifi
                          2019.9.11
                                                    py37_0
libedit
                          3.1.20181209
                                                hc058e9b 0
libffi
                                                hd88cf55 4
                          3.2.1
libgcc-ng
                          9.1.0
                                                hdf63c60 0
libstdcxx-ng
                          9.1.0
                                                hdf63c60 0
ncurses
                          6.1
                                                he6710b0_1
openssl
                                                h7b6447c_2
                          1.1.1d
                          19.2.3
                                                    py37_0
pip
python
                          3.7.4
                                                h265db76_1
readline
                          7.0
                                                h7b6447c_5
setuptools
                          41.2.0
                                                    py37_0
sqlite
                          3.29.0
                                                h7b6447c_0
tk
                          8.6.8
                                                hbc83047 0
wheel
                          0.33.6
                                                    py37 0
                                                h14c3975 4
ΧZ
                          5.2.4
zlib
                          1.2.11
                                                h7b6447c 3
(cinza) duanhubcwb@hub-G3-3590:~$
```

# 8. Instale o pacote Pandas pelo pip

```
(base) duanhubcwb@hub-G3-3590:~$ pip install pandas
Collecting pandas
  Downloading https://files.pythonhosted.org/packages/7e/ab/ea76361f9d3e732e114a
dcd801d2820d5319c23d0ac5482fa3b412db217e/pandas-0.25.1-cp37-cp37m-manylinux1_x86
64.whl (10.4MB)
                                      | 10.4MB 11.2MB/s
Collecting numpy>=1.13.3 (from pandas)
  Downloading https://files.pythonhosted.org/packages/ba/e0/46e2f0540370f2661b04
4647fa447fef2ecbcc8f7cdb4329ca2feb03fb23/numpy-1.17.2-cp37-cp37m-manylinux1_x86_
64.whl (20.3MB)
                                      | 20.3MB 5.8MB/s
Collecting python-dateutil>=2.6.1 (from pandas)
  Downloading https://files.pythonhosted.org/packages/41/17/c62faccbfbd163c7f57f
3844689e3a78bae1f403648a6afb1d0866d87fbb/python_dateutil-2.8.0-py2.py3-none-any.
whl (226kB)
                                      | 235kB 2.5MB/s
Collecting pytz>=2017.2 (from pandas)
  Downloading https://files.pythonhosted.org/packages/87/76/46d697698a143e05f77b
<u>ec5a526bf4e56a0be61d63425b68f4ba553b51f2/pytz-2019.2-py2.py3-none-any.whl</u> (508kB
                                      | 512kB 4.1MB/s
Requirement already satisfied: six>=1.5 in ./miniconda3/lib/python3.7/site-packa
ges (from python-dateutil>=2.6.1->pandas) (1.12.0)
Installing collected packages: numpy, python-dateutil, pytz, pandas
Successfully installed numpy-1.17.2 pandas-0.25.1 python-dateutil-2.8.0 pytz-201
9.2
```

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

Python3 exige o formato print(""), onde a string deve estar dentro de parênteses e aspas duplas. Python2 aceita o mesmo formato de python3, além do formato print "", onde os parênteses são dispensáveis.

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

```
(base) duanhubcwb@hub-G3-3590:~$ conda env list
# conda environments:
base
                      * /home/duanhubcwb/miniconda3
azul
                         /home/duanhubcwb/miniconda3/envs/azul
                         /home/duanhubcwb/miniconda3/envs/laranja
laranja
verde
                         /home/duanhubcwb/miniconda3/envs/verde
vermelho
                         /home/duanhubcwb/miniconda3/envs/vermelho
(base) duanhubcwb@hub-G3-3590:~$ conda-env export -n azul -f ambienteAzul.yml
(base) duanhubcwb@hub-G3-3590:~$ ls
'=3'
                                                      Modelos
                                                                Vídeos
                     Documentos
                                        fiepenv.yml
ambienteAzul.yml
                     Downloads
                                        Imagens
                                                      Música
'Área de Trabalho'
                                       miniconda3
                                                      Público
                    examples.desktop
(base) duanhubcwb@hub-G3-3590:~$ clear
```

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

```
(base) duanhubcwb@hub-G3-3590:~$ conda env create -f t1.yml
Collecting package metadata (repodata.json): done
Solving environment: done
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
# To activate this environment, use
#
     $ conda activate c2
# To deactivate an active environment, use
      S conda deactivate
(base) duanhubcwb@hub-G3-3590:~$ conda env list
# conda environments:
                         /home/duanhubcwb/miniconda3
base
                         /home/duanhubcwb/miniconda3/envs/azul
azul
                         /home/duanhubcwb/miniconda3/envs/c2
c2
verde
                         /home/duanhubcwb/miniconda3/envs/verde
vermelho
                         /home/duanhubcwb/miniconda3/envs/vermelho
```