

# 01.04-use-anaconda

February 21, 2020

## 1 Anaconda

[Anaconda](#)Python IDE[python](#)

### 1.1 conda

[Anaconda](#)

```
conda list
```

```
python magic %%cmd ipython cell
```

```
In [1]: !conda list
```

```
# packages in environment at /opt/conda:
```

```
#
# Name                                Version                                Build      Channel
_r-mutex                             1.0.0                                anacondar_1 defaults
absl-py                              0.7.0                                pypi_0     pypi
alembic                              0.9.9                                py_0       conda-forge
asn1crypto                           0.24.0                               py36_1003  conda-forge
astor                                 0.7.1                                pypi_0     pypi
async_generator                      1.10                                 py_0       conda-forge
attrs                                18.2.0                               py_0       conda-forge
backcall                             0.1.0                                py_0       conda-forge
beautifulsoup4                       4.6.3                                py36_1000  conda-forge
binutils_impl_linux-64               2.28.1                               had2808c_3 defaults
binutils_linux-64                   7.2.0                                had2808c_27 defaults
blas                                 1.1                                  openblas   conda-forge
bokeh                                 0.13.0                               py36_1000  conda-forge
bwidget                              1.9.11                               1          defaults
bzip2                                1.0.6                                h470a237_2 conda-forge
ca-certificates                     2018.11.29                           ha4d7672_0 conda-forge
cairo                                1.14.12                              h80bd089_1005 conda-forge
certifi                             2018.11.29                           py36_1000  conda-forge
cffi                                 1.11.5                               py36h9745a5d_1001 conda-forge
chardet                              3.0.4                                py36_1003  conda-forge
cloudpickle                          0.5.6                                py_0       conda-forge
```

conda	4.6.2	py36_0	conda-forge
conda-env	2.6.0	1	conda-forge
configurable-http-proxy	3.1.0	node8_1	conda-forge
cryptography	2.5	py36hb7f436b_0	conda-forge
curl	7.63.0	h646f8bb_1000	conda-forge
cycler	0.10.0	py_1	conda-forge
cython	0.28.5	py36hf484d3e_1000	conda-forge
cytoolz	0.9.0.1	py36h14c3975_1001	conda-forge
dask-core	1.1.1	py_0	conda-forge
dbus	1.13.2	h714fa37_1	defaults
decorator	4.3.0	py_0	conda-forge
dill	0.2.9	py36_0	conda-forge
entrypoints	0.3	py36_1000	conda-forge
expat	2.2.5	hf484d3e_1002	conda-forge
fastcache	1.0.2	py36h14c3975_1001	conda-forge
fontconfig	2.13.1	h2176d3f_1000	conda-forge
freetype	2.9.1	h94bbf69_1005	conda-forge
gast	0.2.2	pypi_0	pypi
gcc_impl_linux-64	7.2.0	habb00fd_3	defaults
gcc_linux-64	7.2.0	h550dcbe_27	defaults
gettext	0.19.8.1	h9745a5d_1001	conda-forge
gfortran_impl_linux-64	7.2.0	hdf63c60_3	defaults
gfortran_linux-64	7.2.0	h550dcbe_27	defaults
glib	2.56.2	had28632_1001	conda-forge
gluonbook	0.8.10	pypi_0	pypi
gmp	6.1.2	hfc679d8_0	conda-forge
gmpy2	2.0.8	py36hb20f59a_1002	conda-forge
graphite2	1.3.13	hf484d3e_1000	conda-forge
grpcio	1.18.0	pypi_0	pypi
gst-plugins-base	1.14.0	hbdb80ab_1	defaults
gststreamer	1.14.0	hb453b48_1	defaults
gxx_impl_linux-64	7.2.0	hdf63c60_3	defaults
gxx_linux-64	7.2.0	h550dcbe_27	defaults
h5py	2.7.1	py36_3	conda-forge
harfbuzz	1.9.0	he243708_1001	conda-forge
hdf5	1.10.1	2	conda-forge
icu	58.2	hf484d3e_1000	conda-forge
idna	2.8	py36_1000	conda-forge
imageio	2.4.1	py36_1000	conda-forge
ipykernel	5.1.0	py36h24bf2e0_1002	conda-forge
ipython	7.2.0	py36h24bf2e0_1000	conda-forge
ipython_genutils	0.2.0	py_1	conda-forge
ipywidgets	7.4.2	py_0	conda-forge
jedi	0.13.2	py36_1000	conda-forge
jinja2	2.10	py_1	conda-forge
jpeg	9c	h14c3975_1001	conda-forge
jsonschema	3.0.0a3	py36_1000	conda-forge
jupyter	1.0.0	pypi_0	pypi

jupyter-console	6.0.0	pypi_0	pypi
jupyter_client	5.2.4	py_0	conda-forge
jupyter_core	4.4.0	py_0	conda-forge
jupyterhub	0.9.4	py36_1000	conda-forge
jupyterlab	0.35.4	py36_0	conda-forge
jupyterlab_server	0.2.0	py_0	conda-forge
keras-applications	1.0.7	pypi_0	pypi
keras-preprocessing	1.0.9	pypi_0	pypi
kiwisolver	1.0.1	py36h6bb024c_1002	conda-forge
krb5	1.16.3	hc83ff2d_1000	conda-forge
libcurl	7.63.0	h01ee5af_1000	conda-forge
libedit	3.1.20170329	haf1bffa_1	conda-forge
libffi	3.2.1	hfc679d8_5	conda-forge
libgcc	7.2.0	h69d50b8_2	conda-forge
libgcc-ng	7.3.0	hdf63c60_0	conda-forge
libgfortran	3.0.0	1	conda-forge
libgfortran-ng	7.2.0	hdf63c60_3	conda-forge
libiconv	1.15	h14c3975_1004	conda-forge
libpng	1.6.36	h84994c4_1000	conda-forge
libprotobuf	3.6.1	hdbcaa40_1000	conda-forge
libsodium	1.0.16	h470a237_1	conda-forge
libssh2	1.8.0	1	conda-forge
libstdcxx-ng	7.3.0	hdf63c60_0	conda-forge
libtiff	4.0.10	h648cc4a_1001	conda-forge
libuuid	2.32.1	h14c3975_1000	conda-forge
libxcb	1.13	h14c3975_1002	conda-forge
libxml2	2.9.8	h143f9aa_1005	conda-forge
llvmlite	0.23.0	py36_1	conda-forge
make	4.2.1	h14c3975_2004	conda-forge
mako	1.0.7	py_1	conda-forge
markdown	3.0.1	pypi_0	pypi
markupsafe	1.1.0	py36h14c3975_1000	conda-forge
matplotlib	2.2.3	py36h8a2030e_1	conda-forge
matplotlib-base	2.2.3	py36h60b886d_1	conda-forge
mistune	0.8.4	py36h14c3975_1000	conda-forge
mpc	1.1.0	hb20f59a_1006	conda-forge
mpfr	4.0.1	ha14ba45_1000	conda-forge
mpmath	1.1.0	py_0	conda-forge
mxnet-cu90	1.3.1	pypi_0	pypi
nbconvert	5.3.1	py_1	conda-forge
nbformat	4.4.0	py_1	conda-forge
ncurses	6.1	hfc679d8_2	conda-forge
networkx	2.2	py_1	conda-forge
nodejs	8.10.0	0	conda-forge
notebook	5.7.2	py36_1000	conda-forge
numba	0.38.1	py36_0	conda-forge
numexpr	2.6.9	py36h637b7d7_1000	conda-forge
numpy	1.13.3	py36_blas_openblash1522bff_1201	[blas_openblas] con

olefile	0.46	py_0	conda-forge
openblas	0.3.3	h9ac9557_1001	conda-forge
openssl	1.0.2p	h14c3975_1002	conda-forge
packaging	19.0	py_0	conda-forge
pamela	0.3.0	py_1001	conda-forge
pandas	0.23.4	py36h637b7d7_1000	conda-forge
pandoc	2.5	0	conda-forge
pandocfilters	1.4.2	py_1	conda-forge
pango	1.40.14	hf0c64fd_1003	conda-forge
parso	0.3.1	py_0	conda-forge
patsy	0.5.1	py_0	conda-forge
pcr	8.42	h439df22_0	defaults
pexpect	4.6.0	py36_1000	conda-forge
pickleshare	0.7.5	py36_1000	conda-forge
pillow	5.4.1	py36h00a061d_1000	conda-forge
pip	19.0.1	py36_0	conda-forge
pixman	0.34.0	h14c3975_1003	conda-forge
prometheus_client	0.5.0	py_0	conda-forge
prompt_toolkit	2.0.7	py_0	conda-forge
protobuf	3.6.1	py36hf484d3e_1001	conda-forge
pthread-stubs	0.4	h14c3975_1001	conda-forge
ptyprocess	0.6.0	py36_1000	conda-forge
pycosat	0.6.3	py36h14c3975_1001	conda-forge
pycparser	2.19	py_0	conda-forge
pycurl	7.43.0.2	py36hb7f436b_0	defaults
pygments	2.3.1	py_0	conda-forge
pyopenssl	19.0.0	py36_0	conda-forge
pyparsing	2.3.1	py_0	conda-forge
pyrsistent	0.14.9	py36h14c3975_1000	conda-forge
pysocks	1.6.8	py36_1002	conda-forge
python	3.6.7	hd21baee_1001	conda-forge
python-dateutil	2.7.5	py_0	conda-forge
python-editor	1.0.3	py_0	conda-forge
python-graphviz	0.8.4	pypi_0	pypi
python-oauth2	1.0.1	py36_0	conda-forge
pytz	2018.9	py_0	conda-forge
pywavelets	1.0.1	py36h3010b51_1000	conda-forge
pyyaml	3.13	py36h14c3975_1001	conda-forge
pyzmq	17.1.2	py36h6afc9c9_1001	conda-forge
qtconsole	4.4.3	pypi_0	pypi
r-assertthat	0.2.0	r351h6115d3f_1001	conda-forge
r-backports	1.1.3	r351h96ca727_1000	conda-forge
r-base	3.5.1	he45234b_1005	conda-forge
r-base64enc	0.1_3	r351h96ca727_1002	conda-forge
r-bh	1.69.0_1	r351h6115d3f_0	conda-forge
r-bindr	0.1.1	r351h6115d3f_1001	conda-forge
r-bindrcpp	0.2.2	r351h29659fb_1001	conda-forge
r-bit	1.1_12	r351h14c3975_1002	conda-forge

r-bit64	0.9_7	r351h96ca727_1000	conda-forge
r-bitops	1.0_6	r351h96ca727_1002	conda-forge
r-blob	1.1.1	r351_1001	conda-forge
r-broom	0.5.1	r351h6115d3f_1000	conda-forge
r-callr	3.1.1	r351h6115d3f_1000	conda-forge
r-caret	6.0_81	r351h96ca727_1000	conda-forge
r-cellranger	1.1.0	r351h6115d3f_1001	conda-forge
r-class	7.3_15	r351h96ca727_1000	conda-forge
r-cli	1.0.1	r351h6115d3f_1000	conda-forge
r-clipr	0.5.0	r351h6115d3f_0	conda-forge
r-codetools	0.2_16	r351h6115d3f_1000	conda-forge
r-colorspace	1.4_0	r351h96ca727_0	conda-forge
r-config	0.3	r351h6115d3f_1001	conda-forge
r-crayon	1.3.4	r351h6115d3f_1001	conda-forge
r-curl	3.3	r351h96ca727_0	conda-forge
r-dbi	1.0.0	r351h6115d3f_1001	conda-forge
r-dbplyr	1.3.0	r351h6115d3f_1000	conda-forge
r-devtools	1.13.6	r351h6115d3f_1	conda-forge
r-digest	0.6.18	r351h96ca727_1000	conda-forge
r-dplyr	0.7.8	r351h29659fb_1000	conda-forge
r-evaluate	0.12	r351h6115d3f_1000	conda-forge
r-fansi	0.4.0	r351h96ca727_1000	conda-forge
r-forcats	0.3.0	r351h6115d3f_1001	conda-forge
r-foreach	1.4.4	r351h6115d3f_1001	conda-forge
r-forecast	8.2	r351hf484d3e_1001	conda-forge
r-forge	0.1.0	r351h6115d3f_1000	conda-forge
r-fractdiff	1.4_2	r351h96ca727_1002	conda-forge
r-fs	1.2.6	r351h29659fb_1000	conda-forge
r-generics	0.0.2	r351h6115d3f_1001	conda-forge
r-ggplot2	3.1.0	r351h6115d3f_1000	conda-forge
r-git2r	0.24.0	r351h47c54a8_0	conda-forge
r-glue	1.3.0	r351h14c3975_1002	conda-forge
r-gower	0.1.2	r351h96ca727_1002	conda-forge
r-gtable	0.2.0	r351h6115d3f_1001	conda-forge
r-haven	2.0.0	r351h29659fb_1000	conda-forge
r-hexbin	1.27.2	r351ha65eedd_1002	conda-forge
r-highr	0.7	r351h6115d3f_1001	conda-forge
r-hms	0.4.2	r351h6115d3f_1000	conda-forge
r-htmltools	0.3.6	r351hf484d3e_1002	conda-forge
r-htmlwidgets	1.2	r351h6115d3f_1000	conda-forge
r-httpuv	1.4.5.1	r351hf484d3e_1000	conda-forge
r-httptr	1.4.0	r351h6115d3f_1000	conda-forge
r-ipred	0.9_8	r351h96ca727_1000	conda-forge
r-irdisplay	0.7	r351_1000	conda-forge
r-irkernel	0.8.15	r351h6115d3f_1001	conda-forge
r-iterators	1.0.10	r351h6115d3f_1001	conda-forge
r-jsonlite	1.6	r351h96ca727_1000	conda-forge
r-kernsmooth	2.23_15	r351ha65eedd_1002	conda-forge

r-knitr	1.21	r351h6115d3f_1000	conda-forge
r-labeling	0.3	r351h6115d3f_1001	conda-forge
r-later	0.7.5	r351h29659fb_1000	conda-forge
r-lattice	0.20_38	r351h96ca727_1000	conda-forge
r-lava	1.6.4	r351h6115d3f_1000	conda-forge
r-lazyeval	0.2.1	r351h96ca727_1002	conda-forge
r-lmtest	0.9_36	r351ha65eedd_1000	conda-forge
r-lubridate	1.7.4	r351h29659fb_1001	conda-forge
r-magrittr	1.5	r351h6115d3f_1001	conda-forge
r-markdown	0.9	r351h96ca727_1000	conda-forge
r-mass	7.3_51.1	r351h96ca727_1000	conda-forge
r-matrix	1.2_15	r351h96ca727_1000	conda-forge
r-memoise	1.1.0	r351h6115d3f_1001	conda-forge
r-mgcv	1.8_26	r351h96ca727_1000	conda-forge
r-mime	0.6	r351h96ca727_1000	conda-forge
r-modelmetrics	1.1.0	r351h29659fb_1002	conda-forge
r-modelr	0.1.2	r351h6115d3f_1001	conda-forge
r-munsell	0.5.0	r351h6115d3f_1001	conda-forge
r-nlme	3.1_137	r351ha65eedd_1000	conda-forge
r-nnet	7.3_12	r351h96ca727_1002	conda-forge
r-numderiv	2016.8_1	r351h6115d3f_1001	conda-forge
r-nycflights13	1.0.0	r351_1000	conda-forge
r-openssl	1.1	r351hff1dc39_1000	conda-forge
r-pbdzmq	0.3_3	r351h193a840_1000	conda-forge
r-pillar	1.3.1	r351h6115d3f_1000	conda-forge
r-pkgconfig	2.0.2	r351h6115d3f_1001	conda-forge
r-plogr	0.2.0	r351h6115d3f_1001	conda-forge
r-plyr	1.8.4	r351h29659fb_1002	conda-forge
r-prettyunits	1.0.2	r351h6115d3f_1001	conda-forge
r-processx	3.2.1	r351h96ca727_1000	conda-forge
r-prodlim	2018.04.18	r351h29659fb_1002	conda-forge
r-progress	1.2.0	r351h6115d3f_1002	conda-forge
r-promises	1.0.1	r351h29659fb_1000	conda-forge
r-ps	1.3.0	r351h96ca727_1000	conda-forge
r-purrr	0.2.5	r351h96ca727_1002	conda-forge
r-quadprog	1.5_5	r351ha65eedd_1002	conda-forge
r-quantmod	0.4_13	r351h6115d3f_1000	conda-forge
r-r2d3	0.2.3	r351h6115d3f_1000	conda-forge
r-r6	2.3.0	r351h6115d3f_1000	conda-forge
r-randomforest	4.6_14	r351ha65eedd_1000	conda-forge
r-rappdirs	0.3.1	r351h96ca727_1002	conda-forge
r-rcolorbrewer	1.1_2	r351h6115d3f_1001	conda-forge
r-rcpp	1.0.0	r351h29659fb_1000	conda-forge
r-rcpparmadillo	0.9.100.5.0	r351h29659fb_1000	conda-forge
r-rcpproll	0.3.0	r351h29659fb_1000	conda-forge
r-rcurl	1.95_4.11	r351h96ca727_1003	conda-forge
r-readr	1.3.1	r351h29659fb_1000	conda-forge
r-readxl	1.2.0	r351h29659fb_1000	conda-forge

r-recipes	0.1.4	r351h6115d3f_1000	conda-forge		
r-rematch	1.0.1	r351h6115d3f_1001	conda-forge		
r-repr	0.19.1	r351h6115d3f_1000	conda-forge		
r-reprex	0.2.1	r351h6115d3f_1000	conda-forge		
r-reshape2	1.4.3	r351h29659fb_1003	conda-forge		
r-rlang	0.3.1	r351h96ca727_0	conda-forge		
r-rmarkdown	1.11	r351h6115d3f_1000	conda-forge		
r-rpart	4.1_13	r351h96ca727_1002	conda-forge		
r-rprojroot	1.3_2	r351h6115d3f_1001	conda-forge		
r-rsqlite	2.1.1	r351h29659fb_1000	conda-forge		
r-rstudioapi	0.9.0	r351h6115d3f_0	conda-forge		
r-rvest	0.3.2	r351h6115d3f_1001	conda-forge		
r-scales	1.0.0	r351h29659fb_1001	conda-forge		
r-selectr	0.4_1	r351h6115d3f_1000	conda-forge		
r-shiny	1.2.0	r351_1000	conda-forge		
r-sourcetools	0.1.7	r351hf484d3e_1000	conda-forge		
r-sparklyr	0.9.4	r351h6115d3f_0	conda-forge		
r-squarem	2017.10_1	r351h6115d3f_1001	conda-forge		
r-stringi	1.2.4	r351h29659fb_1001	conda-forge		
r-stringr	1.3.1	r351h6115d3f_1001	conda-forge		
r-survival	2.43_3	r351h96ca727_1000	conda-forge		
r-tibble	2.0.1	r351h96ca727_0	conda-forge		
r-tidyr	0.8.2	r351h29659fb_1002	conda-forge		
r-tidyselect	0.2.5	r351h29659fb_1000	conda-forge		
r-tidyverse	1.2.1	r351h6115d3f_1001	conda-forge		
r-timedate	3043.102	r351h6115d3f_1000	conda-forge		
r-tinytex	0.10	r351h6115d3f_0	conda-forge		
r-tseries	0.10_46	r351h9ac9557_1000	conda-forge		
r-ttr	0.23_4	r351ha65eedd_1000	conda-forge		
r-utf8	1.1.4	r351h96ca727_1000	conda-forge		
r-uuid	0.1_2	r351h96ca727_1001	conda-forge		
r-viridislite	0.3.0	r351h6115d3f_1001	conda-forge		
r-whisker	0.3_2	r351h6115d3f_1001	conda-forge		
r-withr	2.1.2	r351h6115d3f_1000	conda-forge		
r-xfun	0.4	r351h6115d3f_1000	conda-forge		
r-xml2	1.2.0	r351h29659fb_1002	conda-forge		
r-xtable	1.8_3	r351_2000	conda-forge		
r-xts	0.11_1	r351h96ca727_1000	conda-forge		
r-yaml	2.2.0	r351h96ca727_1001	conda-forge		
r-zoo	1.8_4	r351h96ca727_1000	conda-forge		
readline	7.0	haf1bffa_1	conda-forge		
requests	2.21.0	py36_1000	conda-forge		
rpy2	2.9.4	py36r351h941a26a_1	conda-forge		
ruamel_yaml	0.15.71	py36h14c3975_1000	conda-forge		
scikit-image	0.14.2	py36hf484d3e_1	conda-forge		
scikit-learn	0.20.2	py36_blas_openblashebff5e3_1400	[blas_openblas]	conda-forge	
scipy	1.1.0	py36_blas_openblash1522bff_1202	[blas_openblas]	conda-forge	
seaborn	0.9.0	py_0	conda-forge		

send2trash	1.5.0	py_0	conda-forge
setuptools	40.7.1	py36_0	conda-forge
sip	4.18.1	py36hf484d3e_1000	conda-forge
six	1.12.0	py36_1000	conda-forge
sqlalchemy	1.2.17	py36h14c3975_0	conda-forge
sqlite	3.26.0	hb1c47c0_0	conda-forge
statsmodels	0.9.0	py36h3010b51_1000	conda-forge
sympy	1.1.1	py36_0	conda-forge
tensorboard	1.12.2	pypi_0	pypi
tensorflow-gpu	1.12.0	pypi_0	pypi
termcolor	1.1.0	pypi_0	pypi
terminado	0.8.1	py36_1001	conda-forge
testpath	0.4.2	py36_1000	conda-forge
tini	0.18.0	h470a237_1	conda-forge
tk	8.6.9	ha92aebf_0	conda-forge
tktable	2.10	h14c3975_0	defaults
toolz	0.9.0	py_1	conda-forge
torch	1.0.0	pypi_0	pypi
torchvision	0.2.1	pypi_0	pypi
tornado	5.1.1	py36h14c3975_1000	conda-forge
traitlets	4.3.2	py36_1000	conda-forge
tzlocal	1.5.1	py_0	conda-forge
urllib3	1.24.1	py36_1000	conda-forge
vincent	0.4.4	py_1	conda-forge
wcwidth	0.1.7	py_1	conda-forge
webencodings	0.5.1	py_1	conda-forge
werkzeug	0.14.1	pypi_0	pypi
wheel	0.32.3	py36_0	conda-forge
widetsnbextension	3.4.2	py36_1000	conda-forge
xlrd	1.2.0	py_0	conda-forge
xorg-kbproto	1.0.7	h14c3975_1002	conda-forge
xorg-libice	1.0.9	h14c3975_1004	conda-forge
xorg-libsm	1.2.3	h4937e3b_1000	conda-forge
xorg-libx11	1.6.6	h14c3975_1000	conda-forge
xorg-libxau	1.0.8	h14c3975_1006	conda-forge
xorg-libxdmcp	1.1.2	h14c3975_1007	conda-forge
xorg-libxext	1.3.3	h14c3975_1004	conda-forge
xorg-libxrender	0.9.10	h14c3975_1002	conda-forge
xorg-renderproto	0.11.1	h14c3975_1002	conda-forge
xorg-xextproto	7.3.0	h14c3975_1002	conda-forge
xorg-xproto	7.0.31	h14c3975_1007	conda-forge
xz	5.2.4	h470a237_1	conda-forge
yaml	0.1.7	h470a237_1	conda-forge
zeromq	4.2.5	hfc679d8_6	conda-forge
zlib	1.2.11	h470a237_3	conda-forge

Anaconda Anaconda



```
conda update conda
conda update anaconda
```

```
conda
cheat sheet
python
```

```
conda install <some package>
conda update <some package>
conda remove <some package>
```

```
numpy 1.8.1
```

```
conda install numpy=1.8.1
conda update numpy=1.8.1
```

```
conda
```

```
conda info
```

```
In [2]: !conda info
```

```
active environment : None
user config file : /home/jovyan/.condarc
populated config files : /opt/conda/.condarc
conda version : 4.6.2
conda-build version : not installed
python version : 3.6.7.final.0
base environment : /opt/conda (writable)
channel URLs : https://conda.anaconda.org/conda-forge/linux-64
               https://conda.anaconda.org/conda-forge/noarch
               https://repo.anaconda.com/pkgs/main/linux-64
               https://repo.anaconda.com/pkgs/main/noarch
               https://repo.anaconda.com/pkgs/free/linux-64
               https://repo.anaconda.com/pkgs/free/noarch
               https://repo.anaconda.com/pkgs/r/linux-64
               https://repo.anaconda.com/pkgs/r/noarch
package cache : /opt/conda/pkgs
                /home/jovyan/.conda/pkgs
envs directories : /opt/conda/envs
                  /home/jovyan/.conda/envs
platform : linux-64
user-agent : conda/4.6.2 requests/2.21.0 CPython/3.6.7 Linux/3.10.0-1062.12.1.el7
UID:GID : 1000:100
netrc file : None
offline mode : False
```

```
conda Python 2.7 Python 3.4 conda
conda create -n py34 python=3.4
py34 py34
```

```
activate py34  #(windows)
source activate py34  #(linux, mac)
```

**Python python 3.4**

## 1.2 spyder

Anaconda spyder

spyder

```
In [4]: !spyder
```

```
/bin/sh: 1: spyder: not found
```

```
In [5]: spyder
```

```
-----
NameError                                Traceback (most recent call last)

<ipython-input-5-143c426a4494> in <module>
----> 1 spyder

NameError: name 'spyder' is not defined
```