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Branch: master nlp_practicum_health / lessons / lesson_0_configuration / conda.md

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Alexjms Sherman add lessons

6738320 5 hours ago5 hours ago

1 contributor

115 lines (71 sloc) | 3.82 KB

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History

"Conda is an open source package management system and environment management system that runs on Windows, macOS and Linux. Conda quickly installs, runs and updates packages and their dependencies. Conda easily creates, saves, loads and switches between environments on your local computer. It was created for Python programs, but it can package and distribute software for any language.

Conda as a package manager helps you find and install packages. If you need a package that requires a different version of Python, you do not need to switch to a different environment manager, because conda is also an environment manager. With just a few commands, you can set up a totally separate environment to run that different version of Python, while continuing to run your usual version of Python in your normal environment."

Source: <https://conda.io/docs/>

Cheat Sheet: https://conda.io/docs/_downloads/conda-cheatsheet.pdf

CONDA INSTALLATION

Confirm that a Python environment variable is set

```
# start python
python -i
# exit python
exit()
# check if conda is installed (from git bash, not python)
conda

# if either of the above failed add the two following environment variables
1. search 'edit the system environment variables'
2. click 'Environment Variables...'
3. under the system variables, edit the variables 'Path'
4. Add the two following paths
   - C:\Users\alsherman\AppData\Local\Continuum\anaconda3\Scripts
   - C:\Users\alsherman\AppData\Local\Continuum\anaconda3
```

add channels to specify from where to install python packages

```
conda config --add channels conda-forge
conda config --add channels anaconda
conda config --add channels jim-hart
```

** clean your environment (not required, but recommended to avoid install issues)

```
conda clean --all --yes
```

create a conda environment with specific packages from a requirements.txt

```
conda create --name guild --file requirements.txt

# FYI - code if you want to create a requirements.txt
conda list -e > requirements.txt
```

ENVIRONMENTS

list conda environments

```
conda env list
```

Remove an environment and everything in it

```
conda env remove --name [environment_name]
# e.g. create a test env
conda create --name test
# remove the test env
conda env remove --name test
```

conda_logo



JUPYTER NOTEBOOK SETUP

add new kernel to jupyter notebook to access kernel

Type the following commands:

```
source activate guild

conda install nb_conda

python -m ipykernel install --user --name guild --display-name "guild environment"
```

RESOLVE ERRORS

identify which python version is running in Jupyter notebook

```
# start python
python -i
# import the system package
import sys
# check which version of python is running
sys.executable
# exit python
exit()
```

if it is the correct python version, try the following

```
conda install ipykernel --name Python3

http://ipython.readthedocs.io/en/stable/install/kernel\_install.html#kernels-for-different-environments

https://stackoverflow.com/questions/37433363/link-conda-environment-with-jupyter-notebook
```

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RESOURCES:

conda vs pip vs virtualenv

```
http://devopspy.com/python/conda-vs-pip/
```

Video: Managing python environments with conda

```
https://www.youtube.com/watch?v=EGaw6VXV3GI
```

Effectively using open source with conda:

```
https://www.slideshare.net/teoliphant/effectively-using-open-source-with-conda
```

Create a virtual env with conda

```
http://uoa-eresearch.github.io/eresearch_cookbook/recipe/2014/11/20/conda/
```