Tools

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Outline

- Optional useful tools
- Anaconda
- Virtual Environments
- Jupyter Lab

Useful tools

Optional Content - Useful for keeping track of things your interested in





Remember everything important.



arxiv-sanity-lite

A much lighter-weight arxiv-sanity from-scratch re-write. Periodically polls arxiv API for new papers. Then allows users to tag papers of interest, and recommends new papers for each tag based on SVMs over tfidf features of paper abstracts. Allows one to search, rank, sort, slice and dice these results in a pretty web UI. Lastly, arxiv-sanity-lite can send you daily emails with recommendations of new papers based on your tags. Curate your tags, track recent papers in your area, and don't miss out!

I am running a live version of this code on arxiv-sanity-lite.com.

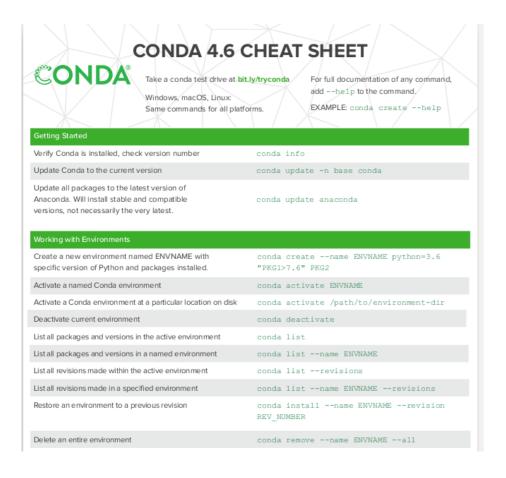
Anaconda

https://docs.anaconda.com/anaconda/install/index.html

See the installation section for your OS

Anaconda- helpful bits

Go to anaconda cheatsheet on course website - gives helpful commandline utilities



```
keith@keith-Precision-5540: ~
File Edit View Search Terminal Help
(data301) >conda info --envs
# conda environments:
                         /home/keith/anaconda3
base
CTEnviro
                         /home/keith/anaconda3/envs/CTEnviro
                        /home/keith/anaconda3/envs/data301
data301
fastbook
                         /home/keith/anaconda3/envs/fastbook
                         /home/keith/anaconda3/envs/juplabTEST
juplabTEST
                         /home/keith/anaconda3/envs/xeus-python
xeus-python
(data301) >
```

Anaconda- virtual environments

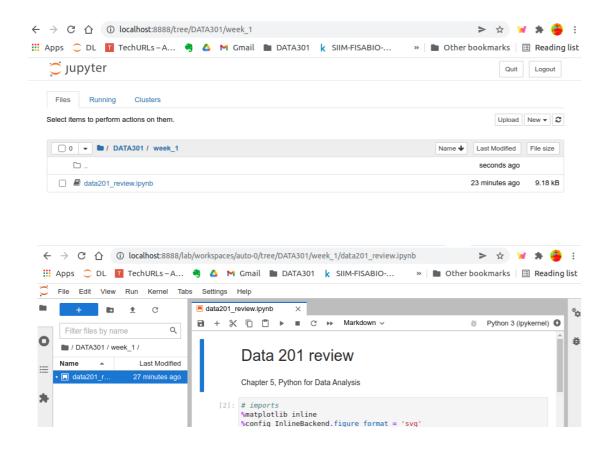
"A named, isolated, working copy of Python that that maintains its own files, directories, and paths so that you can work with specific versions of libraries or Python itself without affecting other Python projects.

Virtual environmets make it easy to cleanly separate different projects and avoid problems with different dependencies and version requiremetrs across components."*

They also come in handy when you want to share your configuration with others (see "Sharing an Environment" at https://docs.conda.io/)

^{*} https://uoa-eresearch.github.io/eresearch-cookbook/recipe/2014/11/20/conda/

Jupyter Lab



Jupyter Notebook: The old way, launch from commandline, Automatically starts in browser

```
(data301) >jupyter notebook
```

Jupyter Lab: The new way, launch from commandline, Automatically starts in browser (data301) >jupyter lab

Can show multiple files at a time Lots of extensions (careful they are not reviewed) Seems to be the way Jupyter is going

But..

Debugging is primitive (ipykernel – uses default python, Or python in virtual environment that we launched Jupyter lab from)