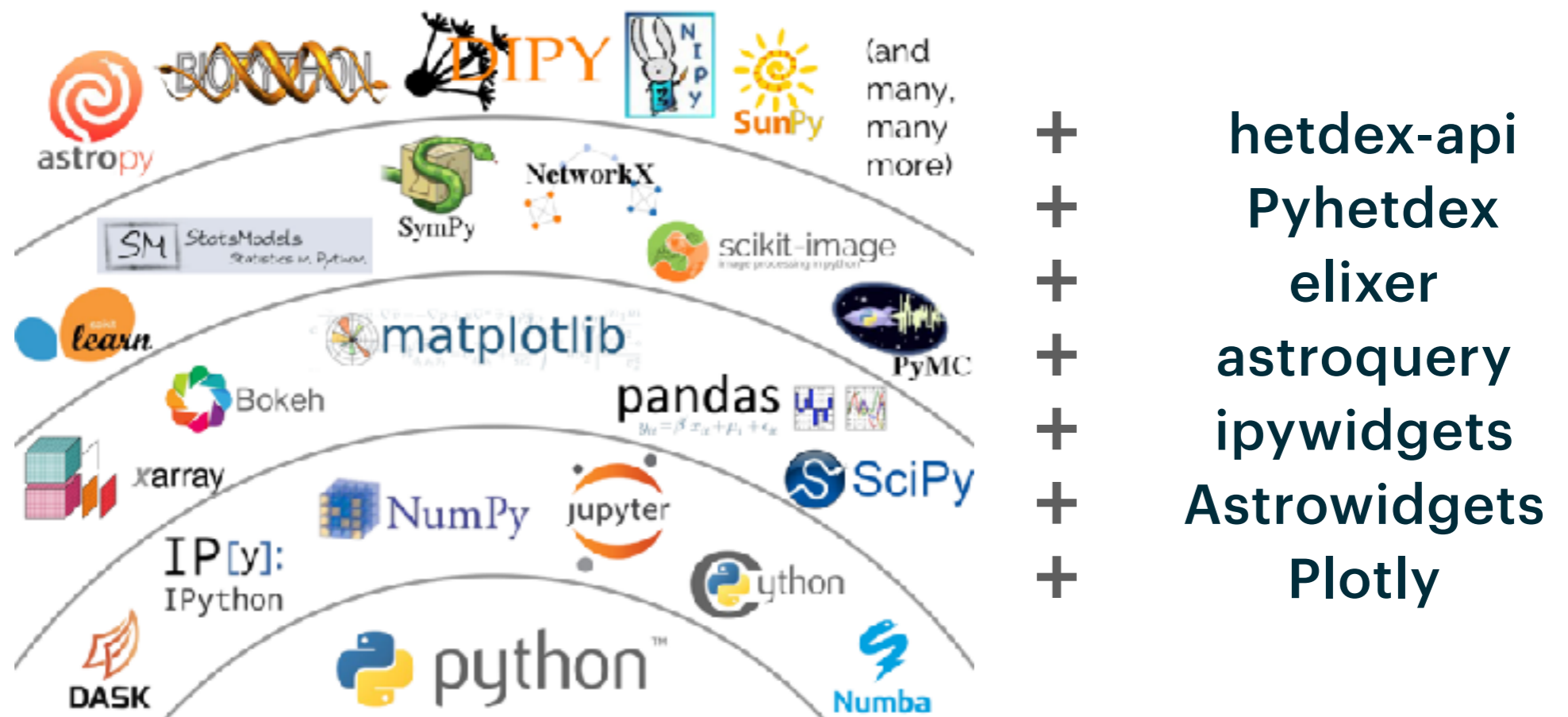


# User friendly Cloud Computing

## Hetdex Jupyter lab

- We are currently beta testing a new jupyter-lab environment for our data releases
- <https://jupyter.tacc.cloud>
- Environment is preloaded and always available from a web browser. We are designing various widgets that will make accessing the data easier
- Note: the Lab has limited HPC resources at this point, stampede2 should still be utilized for parallel computing but the Hub makes it easier to explore data and test scripts.

A complete web-based toolkit, including many GUI interfaces in development, for accessing HETDEX data.



Credit: Jake vanderPlas, "The Unexpected Effectiveness of Python in Science", PyCon 2017

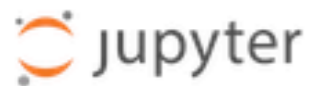
# HETDEX Lab @ TACC Instructions

- If you don't yet have a TACC account, please request one here: <https://portal.tacc.utexas.edu/account-request>, and then message Karl with your username and email. Email Erin [erin@astro.as.utexas.edu](mailto:erin@astro.as.utexas.edu) with your TACC username to gain access to the HETDEX Internal JupyterHub (this has more resources than the public space)
- Go to <https://jupyter.tacc.cloud/> and log in with your TACC credentials
  - If you have already logged on previously, goto Control Panel on top right and Shut down your server then:
- Choose option **HETDEX-Internal** Spawner Option and Click the HPC option.
- To Classify: Click on [your\\_classify\\_dir/classify-widget.ipynb](#)
- To find notebooks+widgets Goto [hetdex-notebooks/](#)
- ML inputs @ [hetdex-notebooks/How\\_to\\_open\\_the\\_machine\\_learning\\_H5\\_files.ipynb](#)
- More hetdex-api info @ <https://hetdex-api.readthedocs.io>

# HETDEX Labs

<https://beta.jupyter.tacc.cloud>

To update your container environment, shut your server here



Logout

Control Panel

Files

Running

Clusters

Upload

New ▾



Select items to perform actions on them.

<input type="checkbox"/> 0 ▾	📁 /	Name ▾	Last Modified	File size
<input type="checkbox"/>	📁 <a href="#">hetdex-notebooks</a>	Widgets + API tutorials. This space is not permanent. Copy notebooks you want to save to work	4 hours ago	
<input type="checkbox"/>	📁 <a href="#">Hobby-Eberly-Telesco</a>	All HETDEX data on /corral	a month ago	
<input type="checkbox"/>	📁 <a href="#">software</a>		5 days ago	
<input type="checkbox"/>	📁 <a href="#">team_classify</a>	The original classifying directory. This is where our group classifications are stored.	12 days ago	
<input type="checkbox"/>	📁 <a href="#">work</a>	<i>You permanent storage space. **This is where you should do your work and save it** Also accessible from stampede2/frontera</i>	a month ago	
<input type="checkbox"/>	📁 <a href="#">your_classify_dir</a>	Your personal classifying directory. The lists are automatically saved in the Hub and are always there.	26 minutes ago	

Once you spawn a container, it will be there every time you go to [beta.jupyter.tacc.cloud](https://beta.jupyter.tacc.cloud). BUT!!! Hetdex-notebooks, software, your\_classify\_dir will get wiped when you reload a container. Keep your permanent work on /work (this is the same space you mounted on wrangler and stampede)