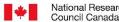
NRC-CNRC

PyVO Status Update

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Outline

- What is PyVO?
- Short history
- Current status
- Future plans

What is PyVO?

PyVO is an open source package providing access to remote data and services of the Virtual observatory (VO) using Python.

- Developed under the astropy umbrella
- Functionality:
 - Data access (TAP, SIA, SLA, SSA interfaces)
 - Registry search
 - Supports both anonymous and authenticated access
- Used by astroquery to access data in ALMA, CADC and NASA Exoplanet Archive



Short History

- May 2019 Astropy organization added PyVO as an affiliated packages
- Sep 2019 version 1.0 released
- Jun 2020 version 1.1 released
- Nov 2021 version 1.2 to be released
- astroquery dependency high percentage of user data access

Where Are We Currently?

- V 1.2 small new features in regTAP and VOResources
- a few "infrastructure" PRs (work required)
- 40 open issues. Some are old and need purging
- TAPPlus little progress. https://github.com/astropy/pyvo/pull/274
 (CADC prototype for table creation/deletion, table content upload, index creation TAP1.2).
- No resolution for experimental code

Future Plans

- Possible new directions:
 - SAMP move from astropy (PR239)
 - Data model implementations
 - New clients: VOSpace
 - Higher level applications (apps module)
 - Improved usability in Registry Search (Wed GatherTown)
 - Improved documentation, tutorials, etc.

We Need You!

"In open source, we feel strongly that to really do something well, you have to get a lot of people involved."

Linus Torvalds

- How to reach us:
 - GitHub (https://github.com/astropy/pyvo)
 - Slack
 - #pyvo channel on Astropy org
 - #applications channel on IVOA)
 - IVOA mailing list (apps@ivoa.net)
- Next PyVO meeting on Nov 10th at 16:00(UTC).

THANK YOU

