STScI | SPACE TELESCOPE SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

Applications Working Group

May 2020 Interop, Opening Session

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Application Working Group Overview

Focused primarily on the software astronomers use to access VO data

- Progress and priorities driven by participation

Communication

- Mail list: apps@ivoa.net
  - Subscribe at http://mail.ivoa.net/mailman/listinfo/apps
- Slack channel: #applications on IVOA workspace
  - Invitation to IVOA Slack: https://join.slack.com/t/ivoa/shared_invite/zt-dq2d8d52-GvlUDAzJTfJb9DC2brnIBw
- Github: Standards documents under https://github.com/ivoa-std

Standards We Maintain

Group	Title	Most stable	In progress	In GitHub	Version history
App	SAMP - Simple Application Messaging Protocol	1.3			1.3 1.3 1.3 1.3 1.3 1.2 1.2 1.2 1.11 1.11 1.10 1.00
	VOTable - VOTable Format Definition	1.4		✅	1.4 1.4 1.4 1.4 1.4 1.4 1.3 1.3 1.3 1.2 1.2 1.2 1.20 1.20 1.10 1.00
	MOC - HEALPix Multi-Order Coverage Map	1.1			1.1 1.1 1.1 1.1 1.1 1.0 1.0 1.0 1.0 1.0
	HiPS - Hierarchical Progressive Survey	1.0			1.0 1.0 1.0 1.0 1.0 1.0

- VOTable is in GitHub thanks to Mark Taylor (https://github.com/ivoa-std/VOTable)
  - Issues will be tracked via GitHub issues.
  - All Apps standards need to be in Github prior to next version.
- Sessions to work on clarifying/learning modification process in Github:
  - Wednesday, May 6, 20:30 UTC: *Lifecycle of making a document change in the IVOA repository*
  - Thursday, May 7, 04:30 UTC: *Automatic builds of VO documents*
- Time Domain session Tuesday, May 5, 15:00 UTC: *Annotations of light curves using VOTable*

Python Community

PyVO

- Maintainers: Christine Banek, Stefan Becker, Adrian Damian, Tom Donaldson, Juan Carlos Segovia
- Handful of contributors; encouraging more!
  - Likely need more steady contributions to become an Astropy "Coordinated" Project
  - Recent enhancements for client-side TAP, SIAv2, DataLink
- Session Thursday, May 7, 22:00 UTC: *PyVO and the End User*

Astropy

- Reading/writing of VOTable, VO Units, and (eventually?) VO data models
- Rigorous test cases needed to clarify interpretation of standards

Other

- Server code, other applications, open source, open development
- Session Thursday, May 7, 20:30 UTC: *A Python based TAP Server at Caltech/IPAC-NExScI*

Full Apps Schedule

Session	Time (UTC)	Elapse time	Session	Notes
			Tuesday May 05 2020	
6	15:00	60 min	Annotations of light curves using VOTable	TDIG/APPS
			Wednesday May 06 2020	
13	20:30	60 min	Lifecycle of making a document change in the IVOA repository (VOtable example)	APPs
			Thursday May 07 2020	
15	4:30 UTC	60 min	Automatic builds of VO documents (using VOTable example)]	APPs
19	20:30	60 min	A Python based TAP Server at Caltech/IPAC-NExScI	APPs/DAL
20	22:00	60 min	PyVO and the end User	APPS
			Friday May 08 2020	
23	15:00	60 min	Feedback on SIA2/SODA including PyVO developments	DAL/APPS
24	22:00	60 min	Maintenance of externally-facing IVOA resources	APPS