Applications WG

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"Codebases and Repositories"

Loose discussion around software: how do we do it better?

- Initial stimulus: how does [a project like LSST] find well-supported, easy-to-use, well-integrated, well-documented software to do VO stuff?
  - "where do I download the VO?"
- Some ideas to improve matters:
  - Better collaborative development
    - VO-level repository?
    - Consistent use of tools like github?
      — not too much enthusiasm
      ... but someone might do it anyway
  - Better distribution management
    - Single curated integrated all-VO runtime download?
    - Consistent cross-package documentation bundle?
    - AstroPy model of provision
      — unrealistic amount of effort
      (organisational structure, politics, different usage model, ...)

~~"Codebases and Repositories"~~
Where do I download the VO?

If we can't do AstroPy, what can we do?

- What problem are we trying to solve?
  - ▷ Increase take-up
  - ▷ Improve usage experience for data providers (for reasons of self-interest)

Take-Up!

"Obvious" or suggested ways to increase take-up:

- Produce high quality software
  - working, reliable, compliant, well-targeted, well-documented, easy to install and run, interoperable at build/library level ...
- Good instructions/information:
  - (More) active TCG curation of Data Providers advice page
  - Help desk/Advertised contact point?
  - Provide case histories of successful deployments?
  - Encourage smaller projects to publish in existing archives
- Others
  - More science input at IVOA meetings
    (Apps session dedicated to presentations by VO-aware scientists?)
  - Apply for money to fund effort on software integration?

Proven ways to increase take-up: personal contact

- house visits
- having a VO expert in-house
- schools/workshops

Presentations

Apps 1

- Ray Plante: PyVO: Accessing the VO from Python
- Sandrine Bottinelli: CASSIS
- Jiří Nádvorník: Photometric survey and VO protocols
- Margarida Castro Neves: ObsCore in SPLAT
- Petr Škoda: Spectral Analysis in SPLAT

Apps 2

- Thomas Boch: What's new in Aladin Lite and Aladin Java?
- François-Xavier Pineau: Generating HiPS catalogues
- Pierre Fernique: HiPS^3: HEALPix progressive surveys for cubes
- Santosh Jagade: VO on Android platforms
- Guillaume Mella: Easily sampify your web apps with AppLauncher

Apps 3

- Florian Rothmaier: WIRR
- Amelia Bayo: Studying low-mass stars with the VO
- Xavier Haubois: A global database in optical interferometry
- Santosh Jagade: Serving a billion images: CRTS-IUCAA
- Francesco Cepparo: VESPA

(Some) Highlights

Standards in use

- ObsCore, TAP/ADQL, RegTAP, DataLink, MOC (SIA, SAMP, Cone, VOTable, SSA, ...)

VO usage tools

- PyVO, WIRR, AppLauncher

Tools using the VO for science

- CASSIS, Aladin with HiPS+cubes, SPLAT, ...

Scientific results:

- bulk spectral analysis, photometric surveys, providing DBs, ...

Education

- VESPA, VO-India Android tools