

# TAPLib & Co

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# 1. Libraries update

- Minor versions mostly for bugs correction on their way:
  - ▶ ADQLLib v1.4
  - ▶ UWSLib v4.2
  - ▶ TAPLib v2.1 - bug corrections
  - ▶ TAPLib v2.2 - improvements of the metadata management
- Major releases for the next interop:
  - ▶ ADQLLib v2.0beta - prototype for ADQL 2.1
  - ▶ UWSLib v5.0 - full support for UWS 1.1
  - ▶ TAPLib v3.0beta - prototype for TAP 1.1
- New library for the Simple Cone Search coming soon
  - ▶ already used by the [ARI's Gaia cone search services](#)
- *Maybe another one but later for SSAP*

## 2. GitHub repository

- Repository name will be less appropriate than now
  - ▶ **suggestions?**
- Restructuring:
  - ▶ one directory for each library
  - ▶ library extensions (e.g. ADQL translators) as individual sub-directories
  - ▶ different build mechanism: **Gradle**
  - ▶ documentation website hosted by GitHub
  - ▶ project management (*preparation for next releases and other additional developments like extensions*)
  - ▶ Wiki
  - ▶ addition of a Continuous Integration system: **Travis-CI**
- Experimental repository to preview what it would look like after restructuring:  
<https://github.com/gmantele/experimental-taplib>
- **What do you think about this restructuring? Or do you have any different proposition?**

### 3. Ucidy - UCD parser & validator

- ucidy-v1.0 available at <https://github.com/gmantele/ucidy>
- 2 levels of validation:
  - ▶ validation of each single UCD word
  - ▶ validation of the UCD syntax (i.e. mainly the order of UCD words)
- Possibility to declare your own UCD words
  - ▶ All standard IVOA words are already declared by default
- Human readable error message
- Improvement advice
- Correction suggestion

## 4. TED

- T.ED. = **T**ap-schema **ED**itor
- Standalone GUI to display and edit the content of a TAP\_SCHEMA
  - ▶ from a local/remote database (e.g. Postgres, MySQL, SQLServer, SQLite, H2)
  - ▶ from anXML document (cf entry point /tables of a TAP service)
- Verification of names, datatypes, UCDs and units.
- Quick addition/removal of database tables and columns to/from TAP\_SCHEMA
- *Working prototype expected for the next Interop.*

# Links

- **ADQL-/UWS-/TAP-Libraries:**  
<https://github.com/gmantele/taplib>
- **Example of GitHub repository restructuring:**  
<https://github.com/gmantele/experimental-taplib>
- **Ucidy v1.0:** <https://github.com/gmantele/ucidy>