

CLARIAH Tool Discovery: Progress update

Vocabularies (1/2)

Work in collaboration with external party (Daniel Garijo, Universidad Politécnica de Madrid):

- ▶ **Software Types vocabulary:** Defines additional software interface types (e.g. `SoftwareLibrary`, `CommandLineApplication`)
- ▶ **Software IO Data vocabulary:** Defines `consumesData` and `producesData` properties to tie input/output formats to software metadata.

Formulated in a way that it can be easily merged into `codemeta/schema.org` with minimal extra vocabulary.

Vocabularies (2/2)

CLARIAH-specific vocabularies:

- ▶ **Technology Readiness Levels** (PR98): Proposed awaiting approval
- ▶ Still undecided points (issue 32):
 - ▶ vocabulary for research subjects/activities (Tadirah?)
 - ▶ vocabulary for research domains (NWO?)
 - ▶ vocabulary for research phases
 - ▶ If no formal ontologies exist yet, they must be created.

Software Metadata Requirements

Document: <https://github.com/CLARIAH/clariah-plus/blob/main/requirements/software-metadata-requirements.md>

- ▶ Precisely defines what software metadata *MUST*, *SHOULD* or *MAY* be provided and in what the eventual form expressed in [codemeta/schema.org](https://codemeta.org) will be.
- ▶ Serves as reference and documentation for any software provider in CLARIAH
- ▶ Points are often corollaries of points in the Software Requirements
- ▶ Keep in mind that automatic harvesting will already take care of a lot

Software Stack

- ▶ codemetapy
- ▶ codemeta-harvester
- ▶ codemeta-server
- ▶ CLARIAH tool discovery & source registry

Work done:

- ▶ Various fixes and improvements
- ▶ Signs of community interest; significant contributions from external contributor
- ▶ Validation. . .

Validation

- ▶ Validation schema for software metadata (SHACL), with David de Boer
- ▶ Automatic validation upon harvesting
- ▶ Automatic **validation report** with feedback on your metadata, formulated according to the Software Metadata Requirements.
- ▶ Rating for your metadata (0 to 5 stars), presented in the Tool Store

Call to Action / Request for Comment

- ▶ **ALL** CLARIAH software must be registered in the source registry (very simple procedure). Is yours already?
- ▶ Feedback on Software Metadata Requirements much appreciated!
- ▶ Contributions in the vocabulary discussions welcome! (issue 32)
- ▶ Second opinions from linked data experts welcome