LDAC 2017 Hackathon Session

Monday 2017-11-13 14:00 - 18:00

14h00-15h30: Parallel sessions

A - Mastering the BOT ontology

(Animated by Mads, Pieter, Kris, ...)

Overall purpose:
- Test BOT for different situations (identify documentation issues, conceptual problems,...)
- Validate BOT (Hopefully)
- Develop examples that may be reused lated for a primer
- Start developing BOT+x applications

14h-15h00: tutorial: help people model a random building (draw graphs / learn turtle)?

15h-15h30: main session: raise and solve issues in the GIT repositories
- https://github.com/w3c-lbd-cg/bot/issues/13
- hostsBy (raise issue ?)
- and add multilingual labels and comments → using google spreadsheet for example
- build a draft toc for a primer, choose running examples etc., using http://ontorule-project.eu/parrot/parrot or LODE or whatever

B - Product data and Properties ontologies

(Animated by Maxime, Georg, Walter, Gonçal, ...)

Overall purpose:

- Decide on the content, platform, editing workflow for the product and properties ontologies,
- Define scopes, choose sources, choose workflow,
- Start development of the ontology / the platform.

30 min Description
Description of the Product and Props ontologies current statuses, description of the similar ontologies in that field (difference different conceptualizations, different coverage !!!)
- Product → GoodRelations, eClassOWL, FreeClassOWL, Baukom ontology, ProducttypesOntology
- Props → SSN, SAREF4BLDG (https://w3id.org/def/saref4bldg) , SEAS, http://elite.polito.it/ontologies/dogont.owl ....…

30 min Scope and content (make sure we have a scribe to take notes !!!)
- What are the sources (including ontologies) we want to "import"/"cover"
- What is the limit / where do we stop ? → agree on scope
- What should the ontology look like (including vocab/hierarchy issue)
- what is a good conceptualisation out there, what is not ?
- agree on the competency questions

30 min Platform and workflow (make sure we have a scribe to take notes !!!)
- Should we redefine every product or just link to existing ones in different sources ?
- Should we create an ontology or just a search engine that looks in different sources ?
- Should people be able to extend the ontology, or should this be a static ontology?
- What existing collaborative editing workflow are there for product sources ?
   -> what should we keep, what should we throw ?
- Is there an overlap to existing product data modelling approaches?
- What should the workflow for contributing to the ontology look like ? rdfs:seeAlso NeOn, http://vicinity.iot.linkeddata.es/vicinity/howwework.html .

See also minutes from previous calls and github issues

15h30-16h00: Coffee and sticky note session

Purpose: organise the groups for the break-out sessions.

16h00-17h30: Break-out sessions

Overall purpose of the break-out sessions:
- initiate collaborations,
- gather requirements,

- kick-off the development of the ontologies,
- code useful things, ...

sticky note sessions to help people gather in small groups and choose a theme, depending on their main interest (developers, experts in this and that, …)

Example of "hacking around BOT " sessions
- choose URIs for the versioned ontologies, clean releases, work on the w3id .htaccess document
    - raise issues on ontoology for example http://ontoology.linkeddata.es/ (Versioning support? -> raise issue: https://github.com/OnToology/OnToology/issues)
- generate bot description from existing ifc file
  ex: "if you have a wall with a void filled by a window you have <wall> bot:hostsElement <window>. then " "Build a ifc2BOT Adapter"
- alignment with other ontologies ? → in the form of SPARQL construct queries or OWL axioms or EDOAL or whatever
- (Kris,...) BOT + Geometry: can we support geolocation in BOT through a subclass relationship between BOT:Building and GeoSPARQL: Feature? + Write code to convert ifcOWL geolocation (ref_long, ref_lat) into bot geolocation? (based on code - https://github.com/kmcglinn/IfcOwl2IfcOwlGeoloc) → then visualise outcome using yasgui.org

Example of "bootstrapping the Product and Props ontology development"
- Import and align session for specific sources of product/properties (including ontologies): GoodRelations, eClassOWL, FreeClassOWL, Goncal's product ontology, ProducttypesOntology, SSN, SAREF4BLDG (https://w3id.org/def/saref4bldg) , SEAS, http://elite.polito.it/ontologies/dogont.owl
- Generate Product example data using a sample IFC file.
- Interworking BOT and Product ontologies ?
- Interworking PRODUCT and GoodRelations / Alignment

17h30-18h00: Plenary closing session

wrap up for each small group: 4 slides, then discussions (5 min max)
slide 1: goal
slide 2: what you did
slide 3: result/ conclusions
slide 4: future steps