Eating our own dog food: The OEG Knowledge Graph

OEG Research Group 07 of Feb 2019

"Eat Your Own Dog Food"



Case 1: Nandana (spring-summer 2018)

"I need to know all the papers that cite the project 4V"





Case 2: Juan (summer-autumn 2018)

"I need information of all the systems developed by OEG in order to create a software catalogue"

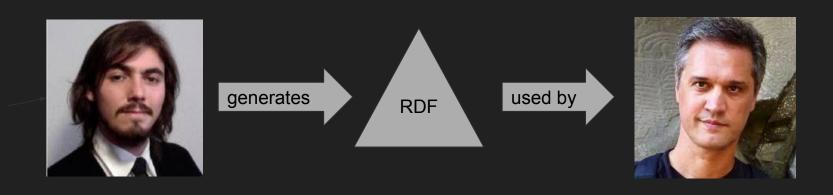






Case 3: Andrea and Mariano (autumn 2018)

"The output of my system can be used as the input of your system"



Case 4: The OEG Web Page

- Initial efforts with RDFa (circa 2012?)
- No update



Proposal: OEG-KG

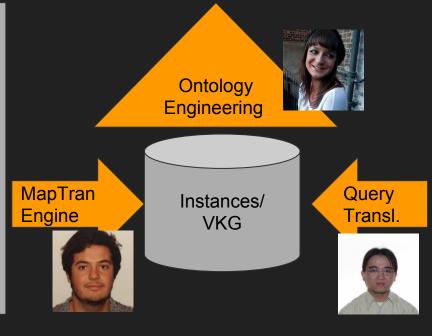
- Knowledge Graph of OEG
- Requirements
 - R1: Reuse our existing tools whenever possible
 - o R2: Easy to use
 - o R3: Involve as many research areas as possible
 - o **R4**
 - o **R5**

OEG-KG (Call for Participation)



systems.csv projects.csv papers.csv persons.csv skill.csv? events.csv? conferences.csv journals.csv talks.csv

Whatever, be flexible here



Questions in natural language:

"Papers supported by MobileAge"

"All tools and its creator"

"Core A conferences in 2019"

"Tools compatible with my system"



```
SELECT ?x
WHERE {
?x ...
}
```

Some thought

- Overkill?
- Collaboration
- To find research problems
 - o (e.g. how people use CSV files)
- To create an updated OEG Web Page
- Possibility to use Pablo's work
- Showcase of our tools?

Some ideas

- Decentralization:
 - Solid Approach: Your data is yours
 - Each user has his/her own data updated (papers, projects)
 - Central Support to generate data about projects, news, etc.
- Github as support
 - Personal repos? Or Repo at OEG?
 - o Private/Public?
- CSV as data format to provide the information
- (YARR)RML as mapping language
- Do we need RDF or a Virtual KG is enough?

An example...

The Knowledge Graph Building Workshop web page:

https://github.com/kgb-workshop/website

http://kgb-workshop.org/

We use:

- CSV to specify the data
- (YARR)RML as Mapping Language with schema vocab
- Comunica as Query Engine
- GraphQL-LD/SPARQL as Query Language

Questions/Discussion

- What: Defined (more or less)
- How: To discuss
- When: To discuss
- Who??

Call for Participation

