



WDAqua-core0: A QA Component for the Research Community



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7th Open Challenge on Question Answering over Linked Data (QALD-7)

Description of WDAqua-core0

- *Knowledge-Bases*
 - *DBpedia*
 - *Wikidata*
- *Types of questions*
 - *Full natural language questions*
 - *Keyword question*
- *Languages*
 - *English, German, French, Italian*
- *Set of possible generated queries*
 - *SELECT/ASK queries with maximal 2 triple patterns*

Integration into **Qanary**



Qanary : Accessible via Restful APIs

Qanary Start a QA process with a new textual question

Please insert a textual question:

Activate the components to be executed and drag them in the intended execution order:

Currently available Qanary components

<input type="checkbox"/> QueryExecuter
<input type="checkbox"/> NER-Stanford
<input type="checkbox"/> NER-FOX
<input type="checkbox"/> NED-AGDISTIS
<input type="checkbox"/> NERD-Alchemy
<input type="checkbox"/> NER-DBpediaSpotlight
<input type="checkbox"/> SpeechRecognitionKaldi
<input type="checkbox"/> NED-DBpediaSpotlight
<input type="checkbox"/> wdaqqa-core0-dbpedia2015
<input type="checkbox"/> LD-Shuyo
<input type="checkbox"/> wdaqqa-core0
<input type="checkbox"/> wdaqqa-core0-wikidata

start QA process provided by Qanary

Qanary : Can be combined with existing components

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<input type="checkbox"/> wdaqua-core0-wikidata

start QA process provided by Qanary

Qanary : Can be benchmarked with Gerbil for QA

Qanary Generate a url-endpoint to evaluate with the Gerbil for QA platform

Activate the components to be executed and drag them in the intended execution order:

Currently available Qanary components

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<input type="checkbox"/> NER-Stanford
<input type="checkbox"/> NER-FOX
<input type="checkbox"/> NED-AGDISTIS
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<input type="checkbox"/> LD-Shuyo
<input type="checkbox"/> wdaqqa-core0
<input type="checkbox"/> wdaqqa-core0-wikidata

Generate Gerbil for QA endpoint

Url for the "Gerbil for QA" endpoint (at <http://gerbil-qa.aksw.org/gerbil/config>):

Select components!

Qanary : Users can access it using as a front-end Trill

WDAQUA

About FAQ Examples

Did you mean...

*located next to body of water, deepest point/Slovenia (republic in Central-Eastern...)
instance of/sea (large body of saline water)*

Trill

Adriatic Sea



The Adriatic Sea /ˌædriˈætɪk/ is a body of water separating the Italian Peninsula from the Balkan peninsula and the Apennine Mountains from the Dinaric Alps and adjacent ranges. The Adriatic is the northernmost arm of the Mediterranean Sea, extending from the Strait of Otranto (where it connects to the Ionian Sea) to the northwest and the Po Valley. The countries with coasts on the Adriatic are Albania, Bosnia and Herzegovina, Croatia, Greece, Italy, Montenegro and Slovenia. The Adriatic contains over 1,300 islands, mostly located along its eastern, Croatian, coast. It is divided into three basins, the northern being the shallowest and the southern being the deepest, with a maximum depth of 1,233 metres (4,045 ft). The Otranto Sill, an underwater ridge, is located at the border between the Adriatic and Ionian Seas. The prevailing currents flow counterclockwise from the Strait of Otranto, along the eastern coast and back to the strait along the western (Italian) coast. Tidal movements in the Adriatic are slight, although larger amplitudes are known to occur occasionally. The Adriatic's



Summary

shares border with Croatia

shares border with Bosnia and Herzegovina

Evaluation

Task	Dataset	Language	Type	Precision	Recall	F-measure
1	DBpedia	en	full	0.49	0.54	0.51
1	DBpedia	en	keywords	0.37	0.41	0.39
4	Wikidata	en	full	0.32	0.32	0.32
4	Wikidata	en	keywords	0.28	0.28	0.28
4	Wikidata	fr	full	0.19	0.24	0.21
4	Wikidata	fr	keywords	0.33	0.37	0.34
4	Wikidata	de	full	0.220	0.23	0.22
4	Wikidata	de	keywords	0.30	0.35	0.33
4	Wikidata	it	full	0.16	0.18	0.17
4	Wikidata	it	keywords	0.19	0.21	0.20

**Thank you
for your attention!**

www.wdaqqa.eu/qa

