

LingNLQ: Natural Language Query for linguistics

M2 TAL Software Project

Karolin Boczoń Roham Roshanfekr Dimitra NIAOURI Muhammad SHAHZAIB

Linguistics domain issues

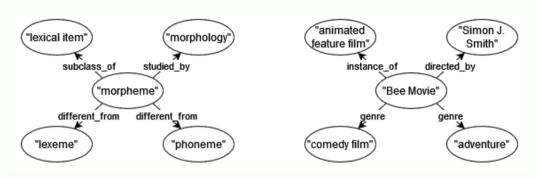


Figure: Linguistics concepts vs real-life entities

Linguistics domain issues

The domain (linguistics) and the resource (knowledge graph) we chose aren't compatible.

Possible new project ideas:

- Closed-domain Information Retrieval-based Question Answering
- Open-domain Knowledge-based Question Answering



TriviaNLQ: Natural Language Query for trivial questions

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Why trivia?

- trivia is little-known and rather useless facts
- mostly used in trivia quizzes
 - sets of questions available
 - a good trivia question is unambiguous and objective
- suitable for knowledge-based approach

TriviaQA

- reading comprehension dataset
- ▶ includes 95K question-answer pairs authored by trivia enthusiasts
- comes with an evaluation script

Question	Which musical instrument does Kermit the Frog play?
Answer	banjo

Table: Example pair

Translating to query

Which musical instrument does **Kermit the Frog** play?



Text to QDRM to SPARQL

- the Model was Originally SQL based
- steps for model evaluation and testing
- ► SPARQLing Package https://github.com/yandex-research/sparqling-queries

SPARQLing Queries

- approach of QDMR2SPARQL
- steps for model evaluation
- understanding scripts

What's next

- adapting Text2QDRM to TriviaQA questions
- adapting QDRM2SPARQL to WikiData schema
- model evaluation
- building the website

Timeline

Week No.	Milestone
46	Run sparqling-queries
55	First draft of the report
02	Finished all the experiments
05	Finished report
05	Deployed website

Subject to change.

Thank you!

Thank you! 9/