Knowledge bases

Natural language questions are mapped to a query language via syntactic parsing

Most knowledge bases uses relations between entities, stores *triples*

Triple:

- * Subject, predicate, object
- * Subject, property (relation), object
- * Entity, relation, entity

Popular KBs:

- * Freebase (deprecated)
- * Wikidata (new freebase)
- * DBPedia
- * YAGO







Knowledge bases ... Graph structure

Entity-Relation model

- * Entity: a graph node
 - * Subject
 - * Object
 - * Compound Value Type (CVT)* Many-to-many relation
- * Relation: a graph edge
 - * Often context specific

