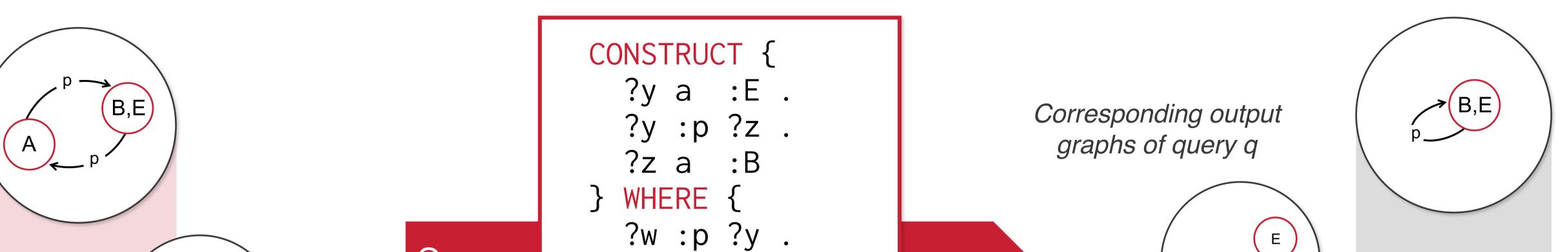
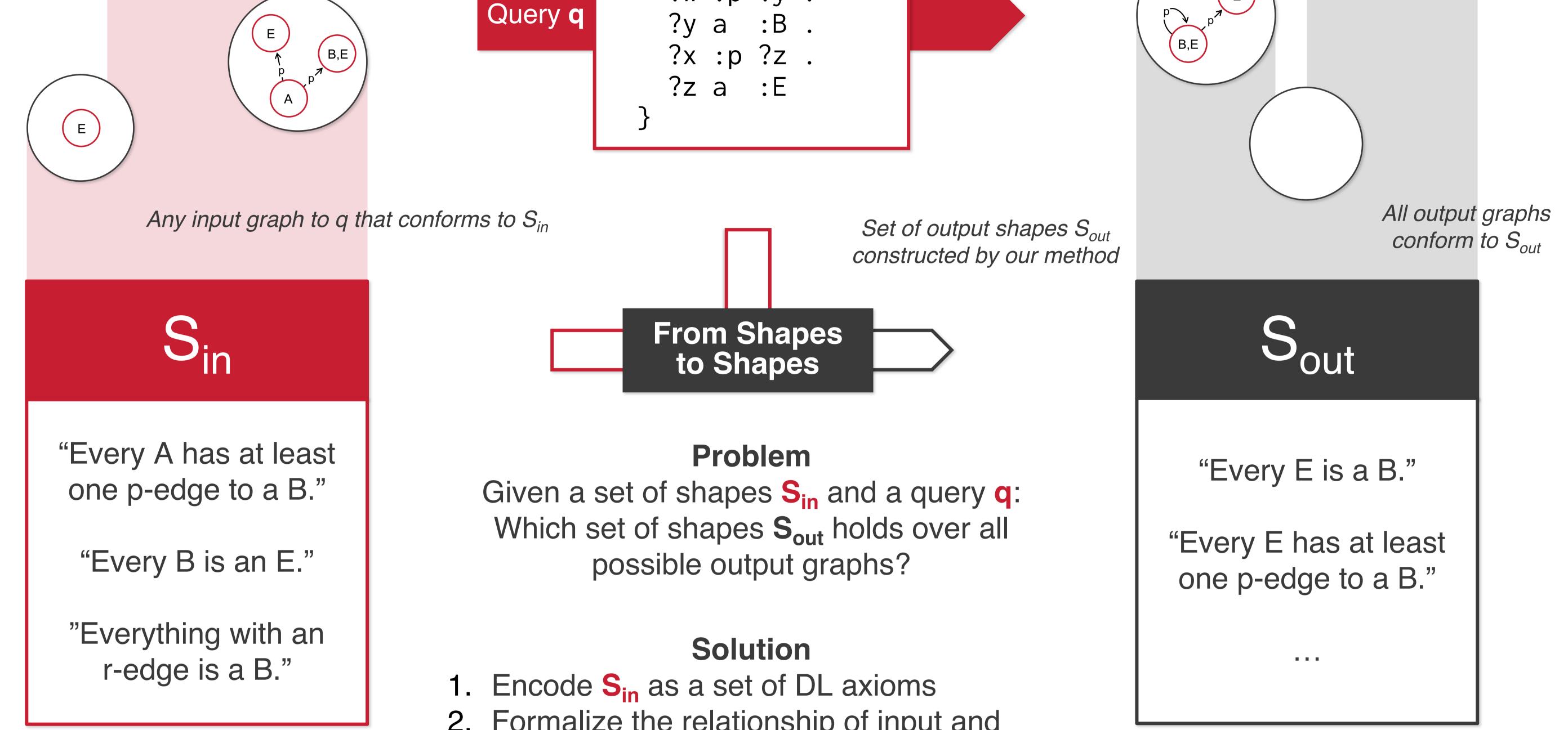


Semantics and Knowledge

From Shapes to Shapes: Inferring SHACL Shapes for Results of SPARQL CONSTRUCT Queries

Philipp Seifer, Daniel Hernández, Ralf Lämmel, Steffen Staab





Shapes can be expressed in a subset of SHACL

THE '

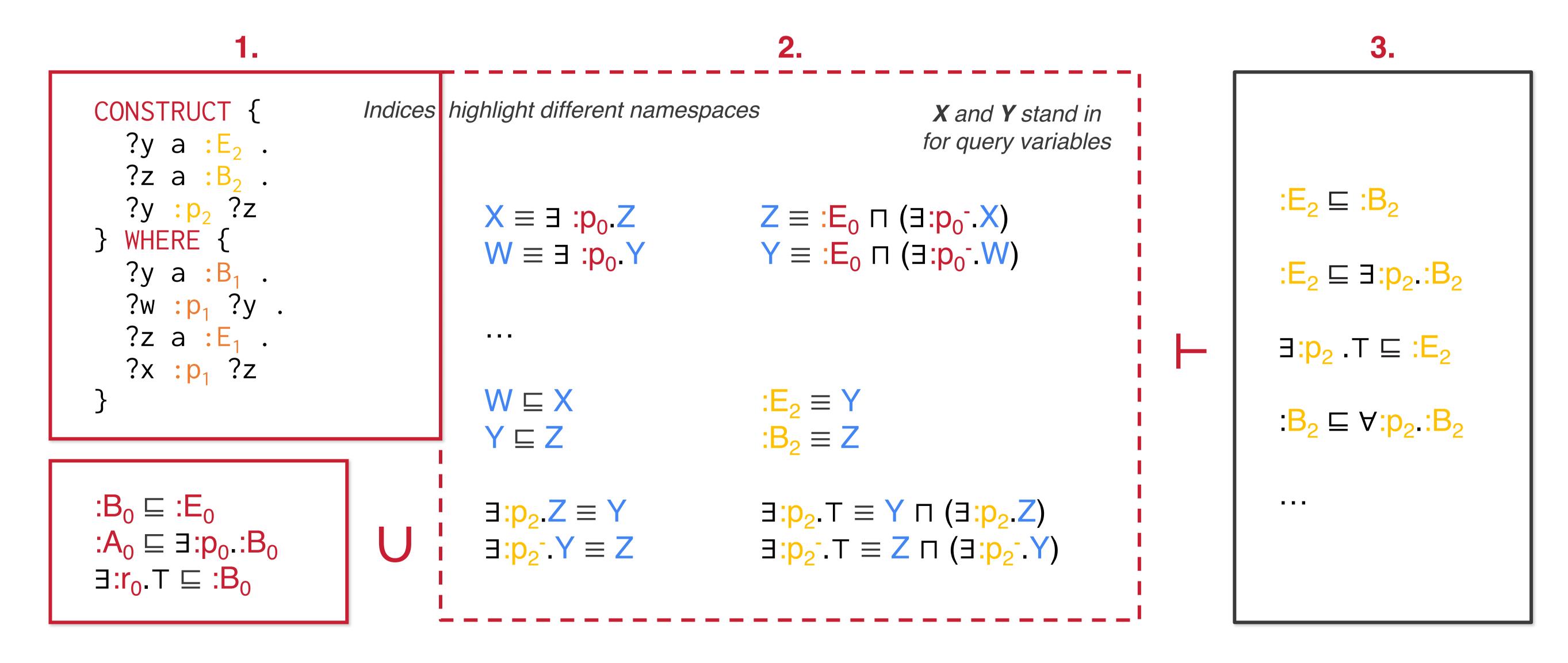
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CONFERENCE

- 2. Formalize the relationship of input and corresponding output graphs in query q using DL axioms
- 3. Find set **S**_{out} entailed by these axioms

Any axiom (i.e., shape) entailed holds over all possible output graphs of q.

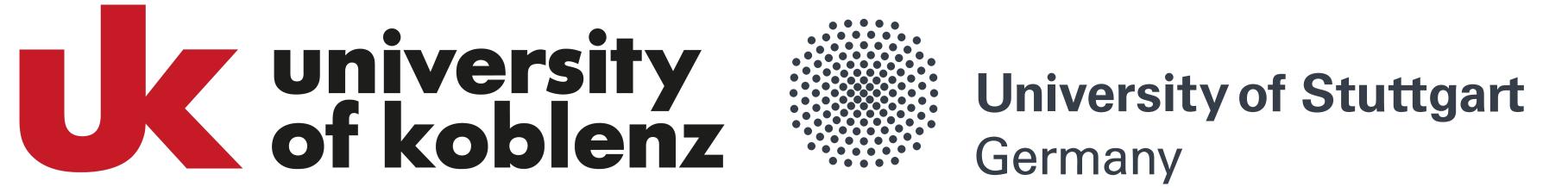
For the complete set of output shapes see the appendix of our paper



Input shapes encoded as axioms...

...and axioms inferred from the query...

... entail output shapes.



softlang/s2s



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