

What should Entity Linking link?

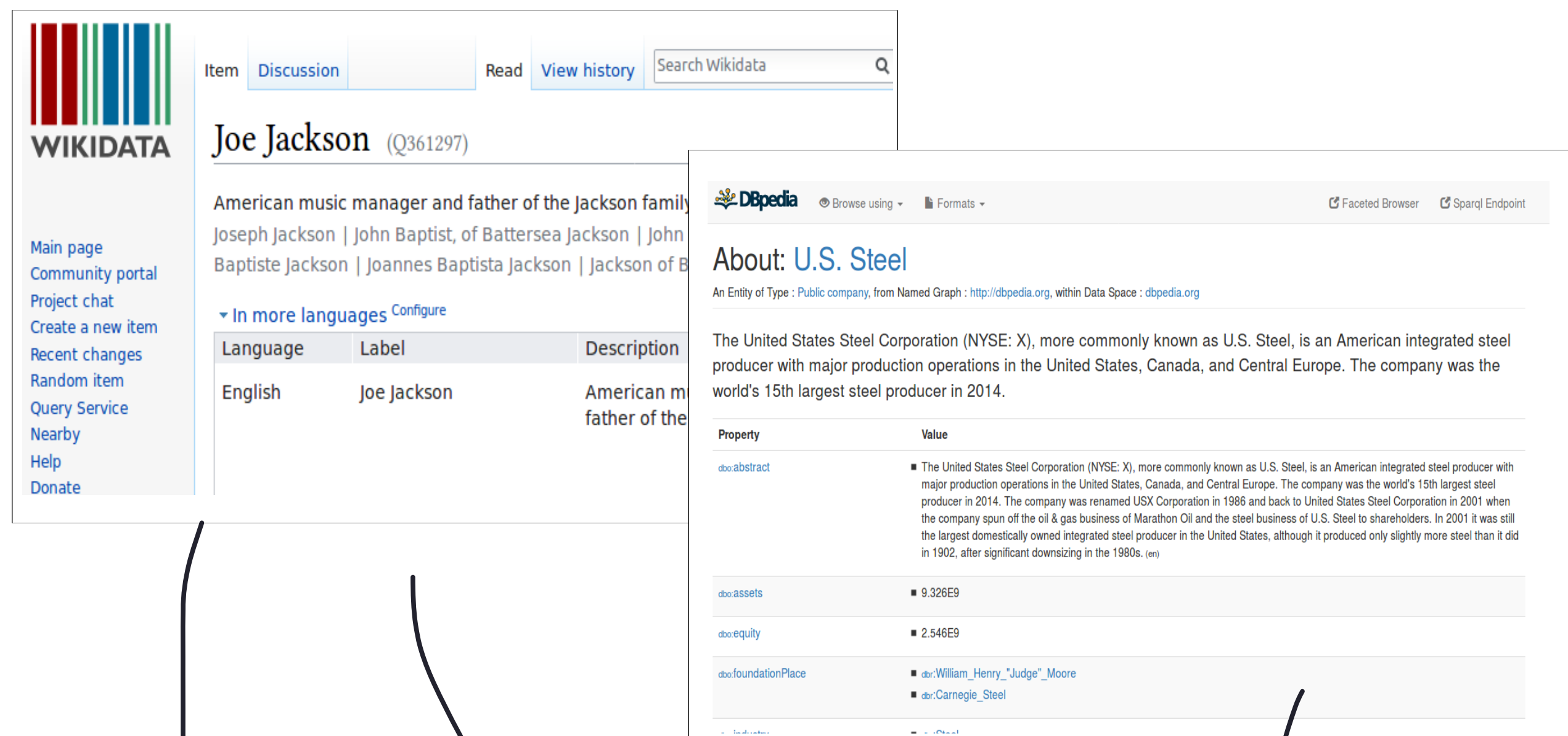
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What is *Entity Linking*?

Fig 1. Entity Linking example



Joseph Walter “Joe” Jackson, was a steelworker at U.S. Steel. In an interview with Martin Bashir for the 2003 documentary Living with Michael Jackson, Jackson recalled that Joe often sat in a chair with a belt in his hand as he and his siblings rehearsed.

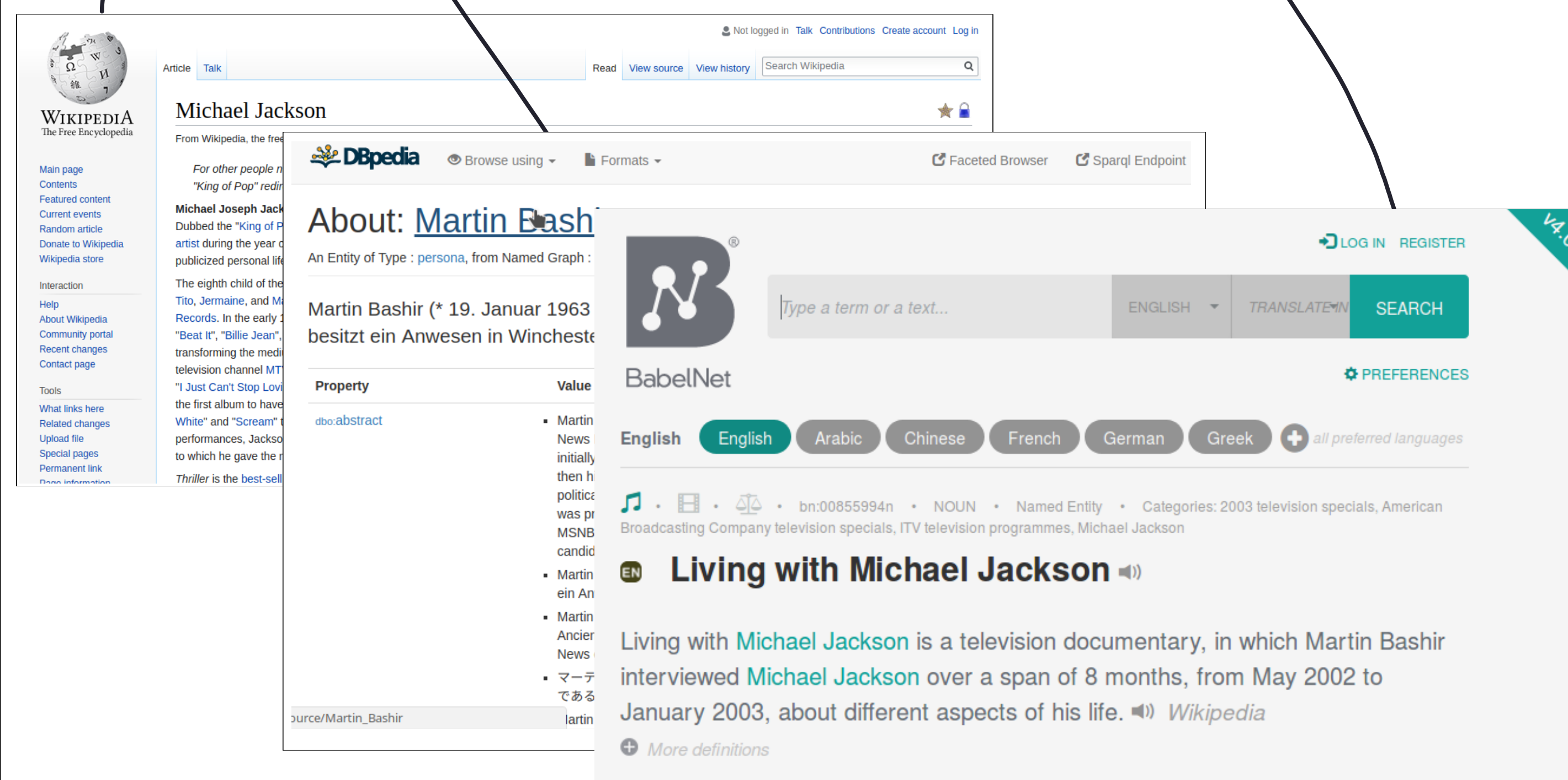
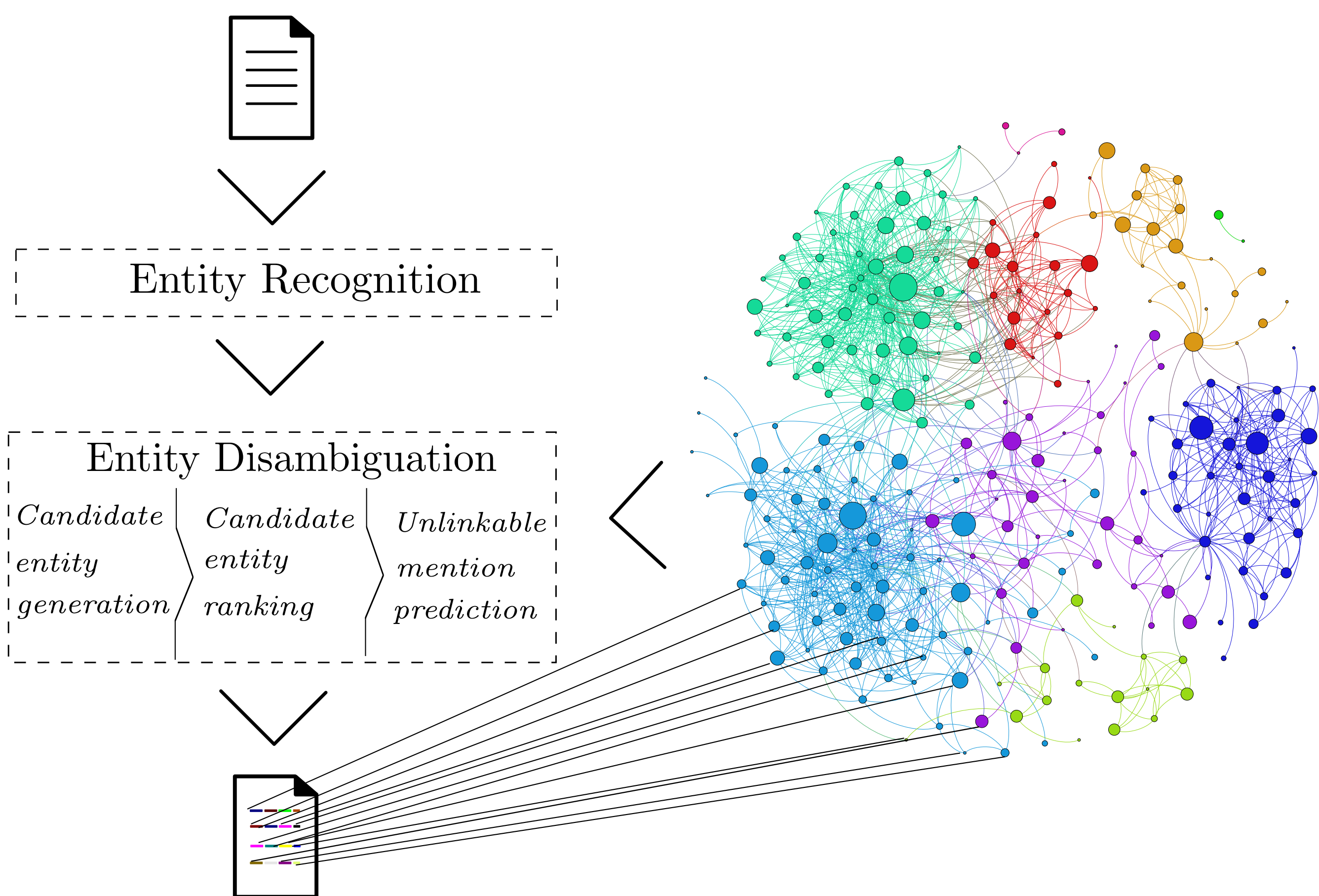


Fig 2. Entity Linking Flow



Applications

- Semantic search
- Semantic annotation
- Text enrichment
- Relation extraction
- Entity summarization

Problem: Disagreement on what is an "entity".

Class-based definition



Knowledge-base definition

- All non-ambiguous resources from a Knowledge Base

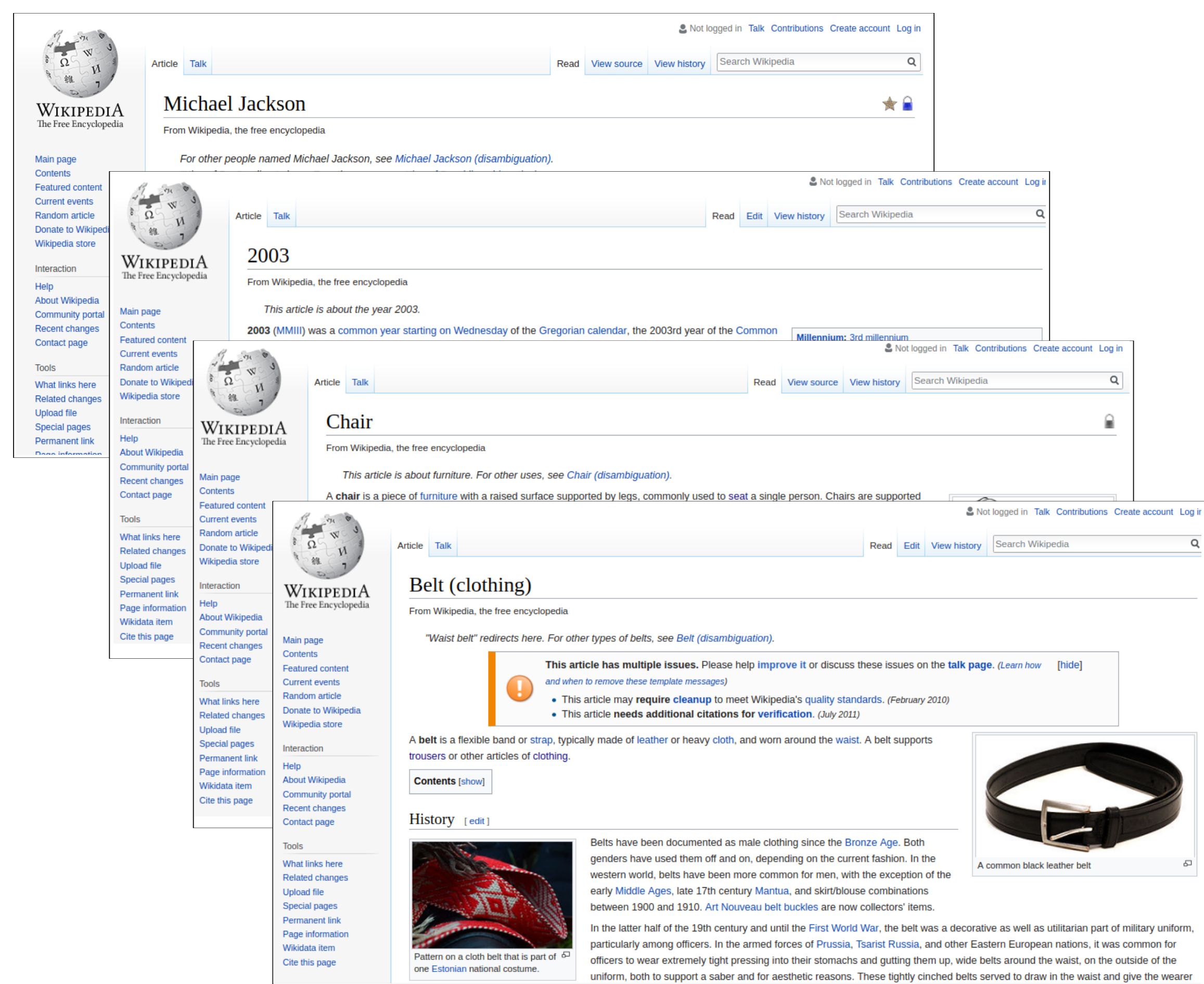


Fig 3. Example annotations produced by four EL systems: AIDA (A), Babelfy (B), DBpedia Spotlight (D) and TAGME (T).

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Our Proposal and Future Work

- No universal definition of “entity” exists.
- Stress this problem in the Entity Linking community.
- Create a benchmark dataset with a relaxed and strict version.
- Propose new quality measures that consider both versions of the dataset.



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