

Going Meta #6: Ontology learning from graph data

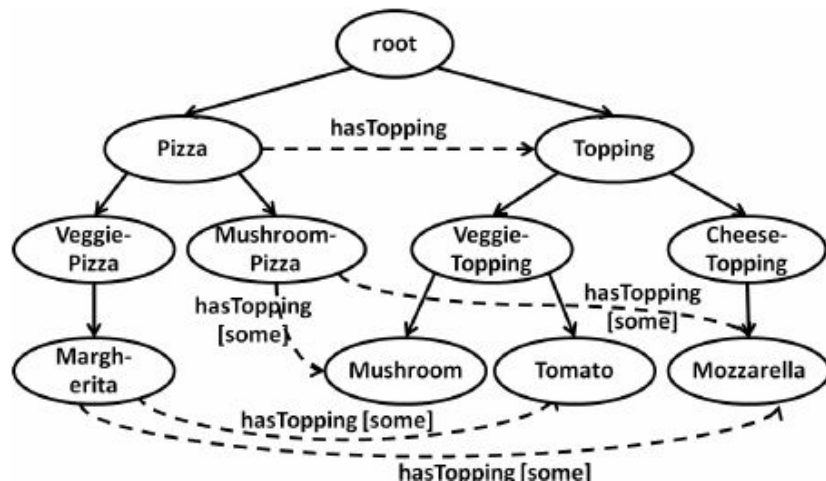


We want to categorise a data set

We can have domain experts manually create an ontology/taxonomy/... any classification scheme

(episode 2: semantic search)

Or we can try to learn it from the data!



Annotated datasets: Books with multiple genres

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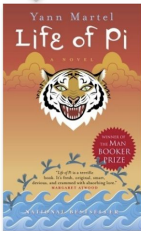
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by Yann Martel

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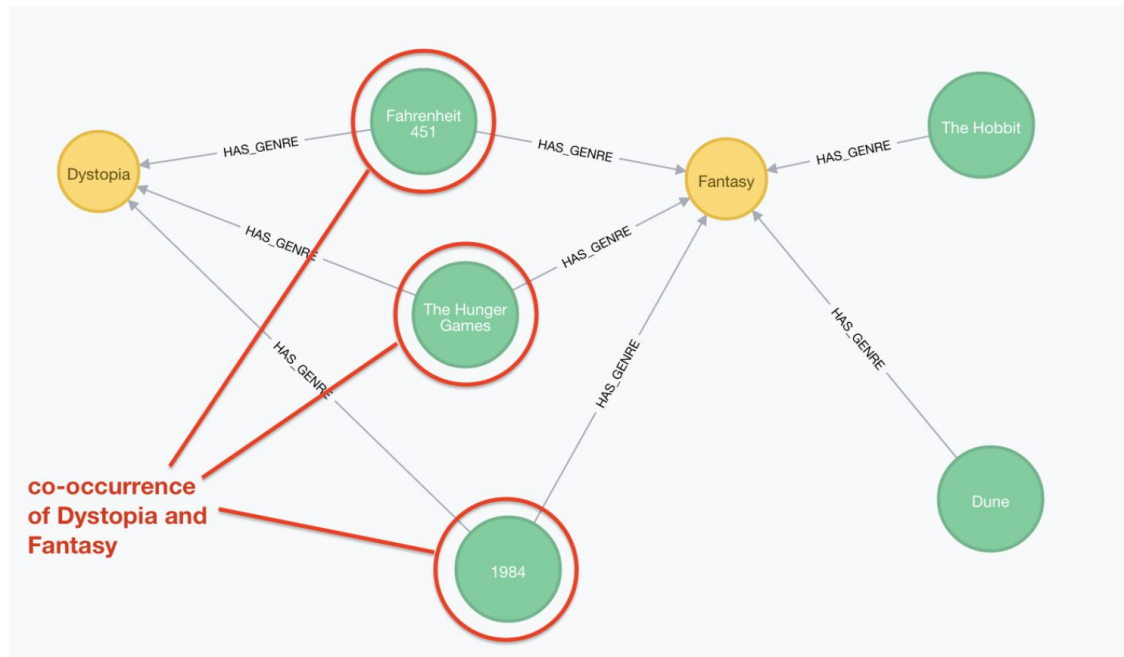
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ABOUT YANN MARTEL

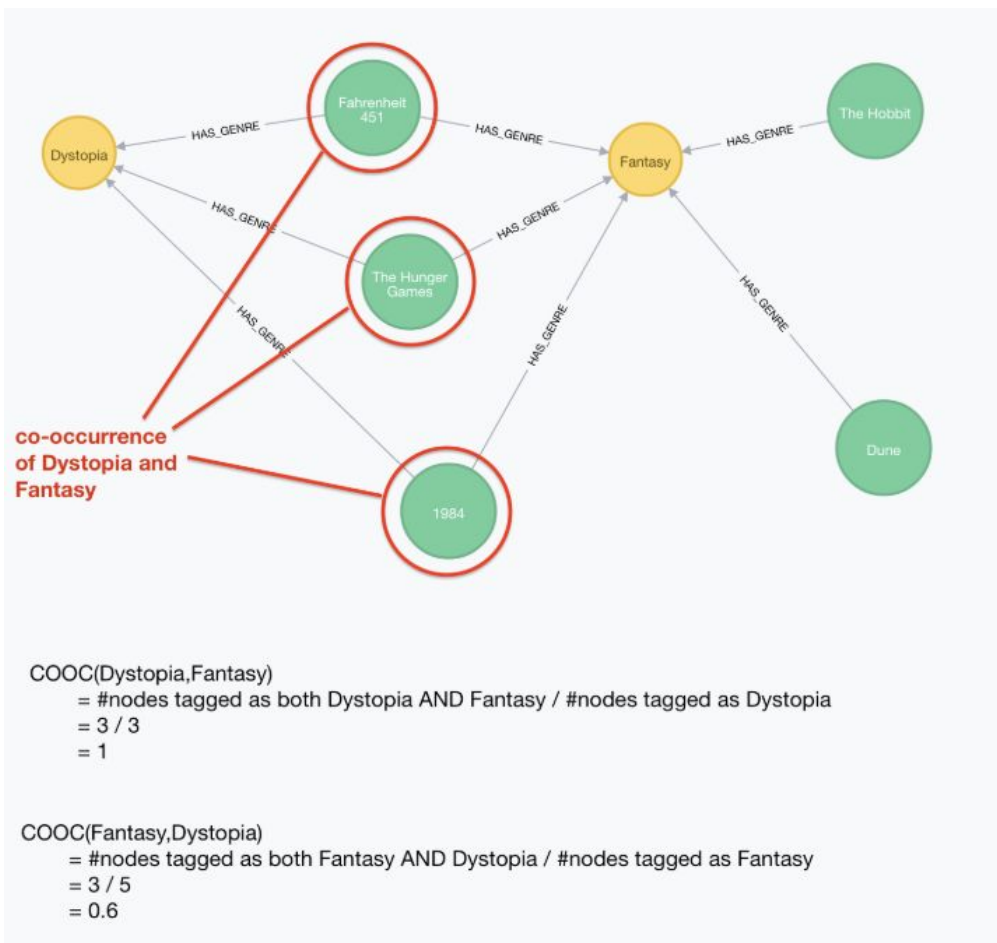


Yann Martel

Taxonomy learning algo: Co-occurrence



Co-oc score (directional)



2 simple rules

Rule 1: If all items tagged as A are also tagged as B and all items tagged as B are also tagged as A, then the categories defined by A and B are equivalent

Rule 2: If all items tagged as A are also tagged as B (but not all B's are tagged as A) we can “derive” that tag A defines a category “narrower than” the one defined by tag B (subcategory?)