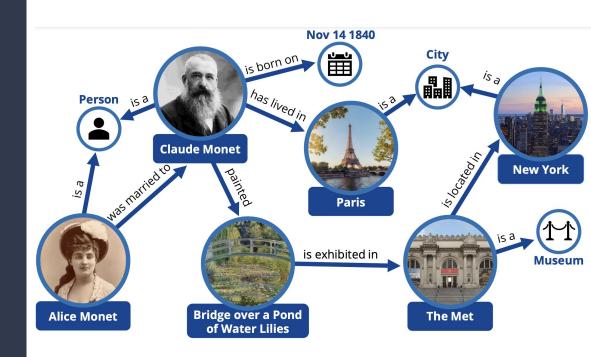
Knowledge Graphs

Definition

A Knowledge Graph (KG) is a graph in which entities are encoded as vertices with their relations encoded as edges to other vertices



Your experience with KGs

Can you talk about your experience with KGs?

What do you use them for?

How were your KGs created?

Are there any challenges you face when using KGs?

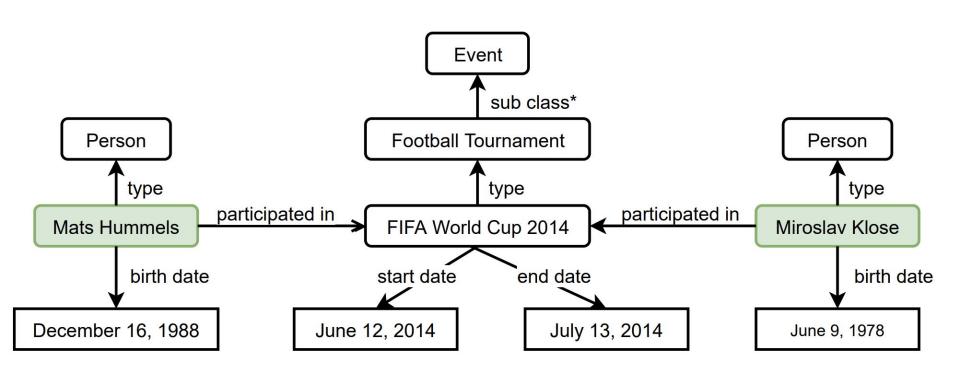
What are your KGs like?

How were your KGs created?

How do you represent your KG? Do you use a graph database?

If so, can you talk about your experience with the graph DB? What about its query language?

How large are the KGs that you work with? Estimated # of nodes and edges?



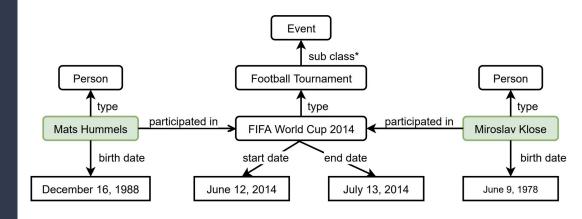
What kinds of questions are you trying to answer with your KGs?

How would you go about determining answers to your questions?

What methods or tools would you use?

Why are you using a KG and not another data structure?

Are there any questions you would like to ask that are currently difficult to answer?



What is the typical outcome of using your tools?

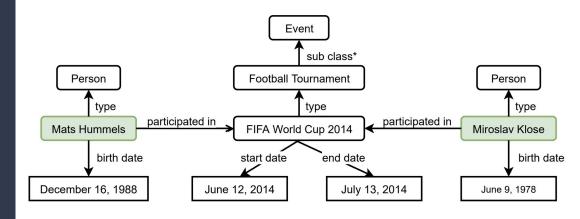
Generated reports?

New knowledge/insight?

New data?

Can you give an example of a successful use case, or talk about a hypothetical ideal KG use case?

What do the end users see / receive?

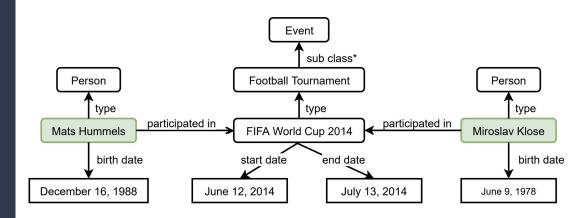


Do you currently use any tools to visualize KGs?

If so, what do you look for in a KG using these tools?

Anything you like about using these tools? Anything you wish they could do?

If not, why not?

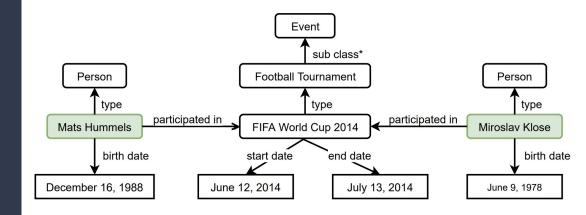


Do you want to see the full KG?

Why/ why not? What (rough) size is your threshold?

What parts of the graph are most useful?

Give a baseline of typical node/edge count that can be visualized

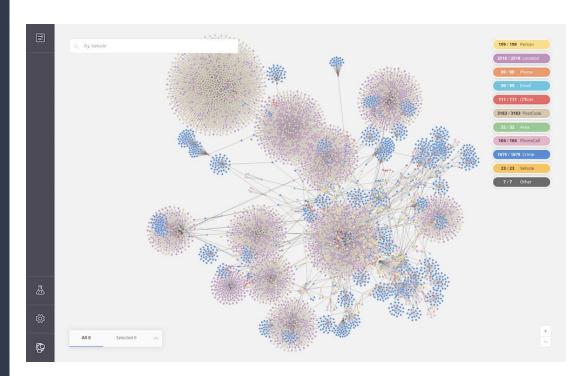


When (if at all) has a node-link diagram been useful?

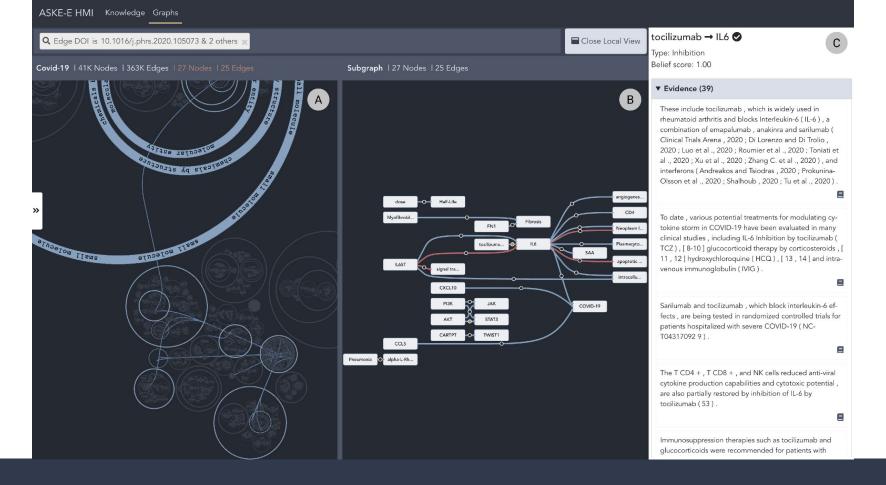
Why/ why not? What (rough) size is your threshold?

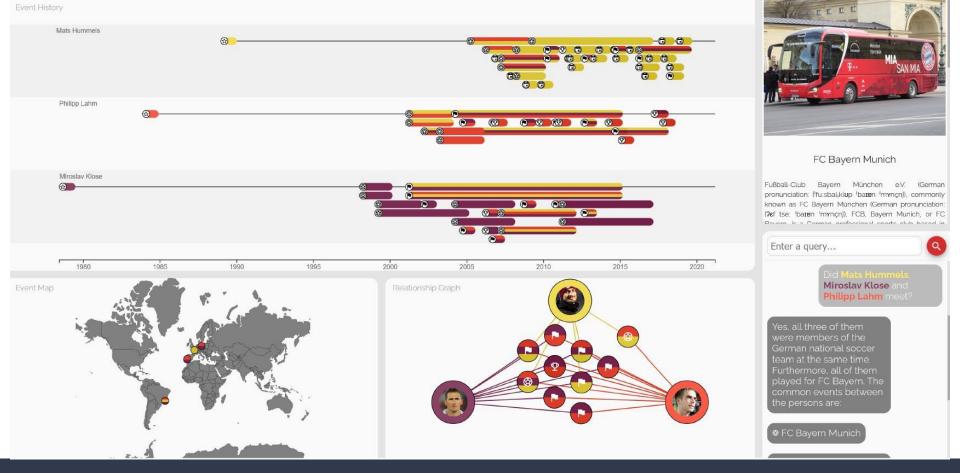
What parts of the graph are most useful?

Give a baseline of typical node/edge count that can be visualized



Example Visual Tools from Literature



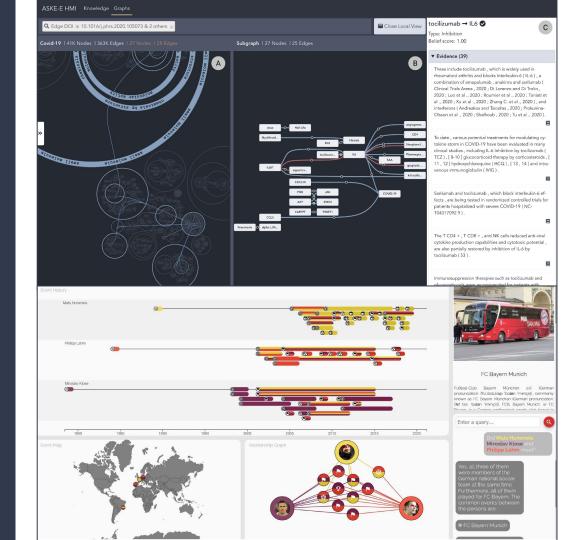


Visually Connecting Historical Figures Through Event Knowledge Graphs

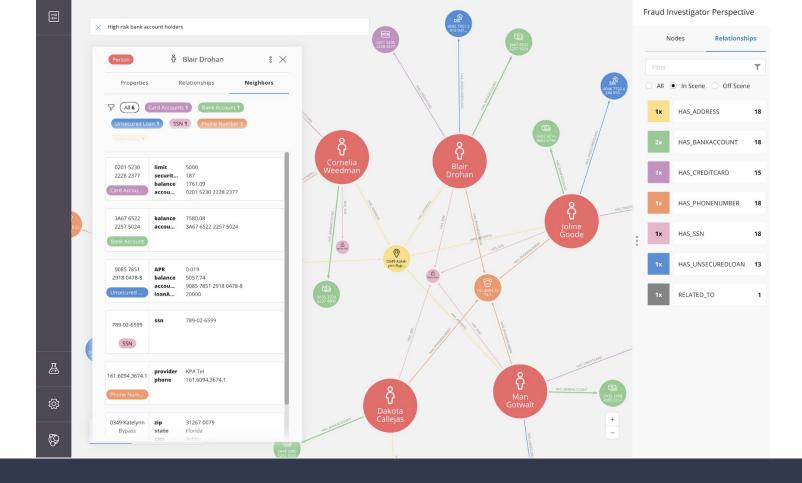
Are there any aspects of these tools that would be useful for you?

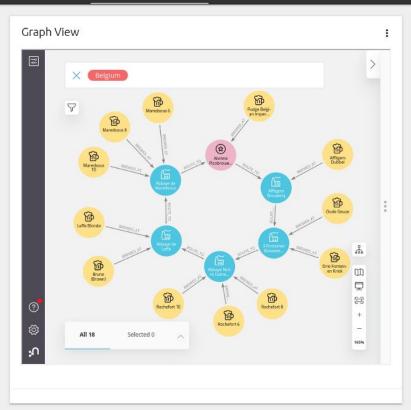
What do you think of the multi-scale visualization?

What do you think about the EventKG dashboard with the supporting visualizations?



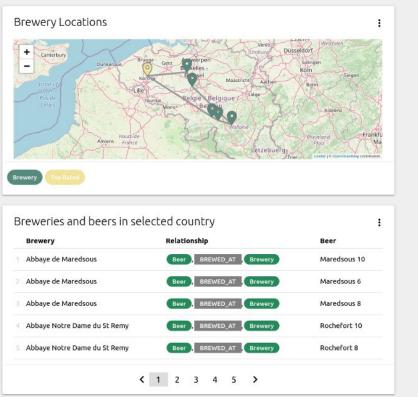
Example Visuals from Neo4J Bloom

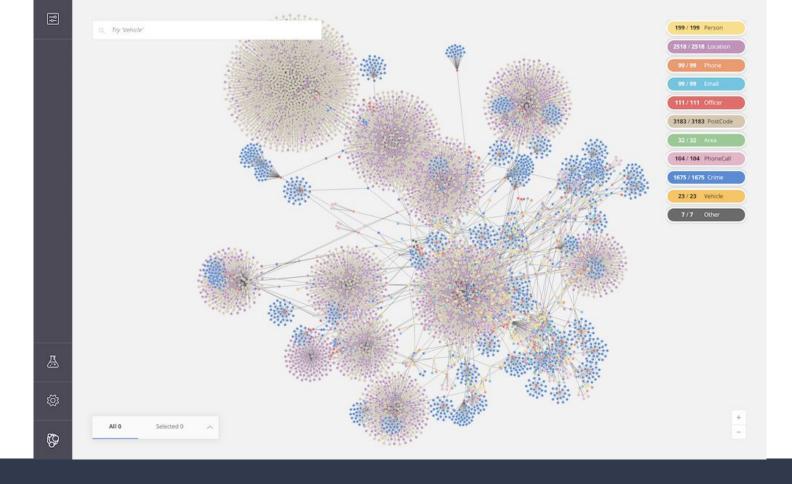




BEERS BY COUNTRY

BLOOM VIEW



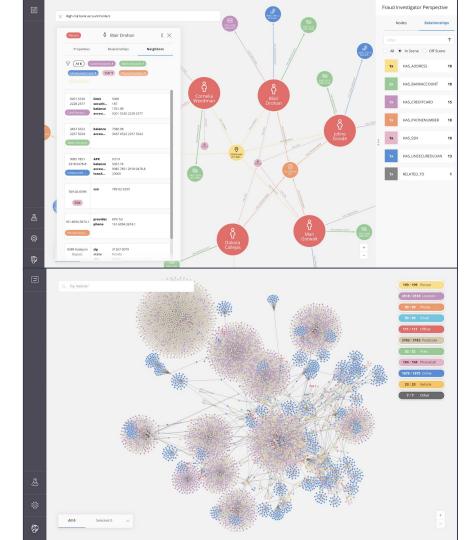


Have you used Neo4J Bloom before?

What are your thoughts and opinions about it?

Anything about it that you like?

Anything you wish it could do better?



Any final thoughts?