

Knowledge Graph Lab

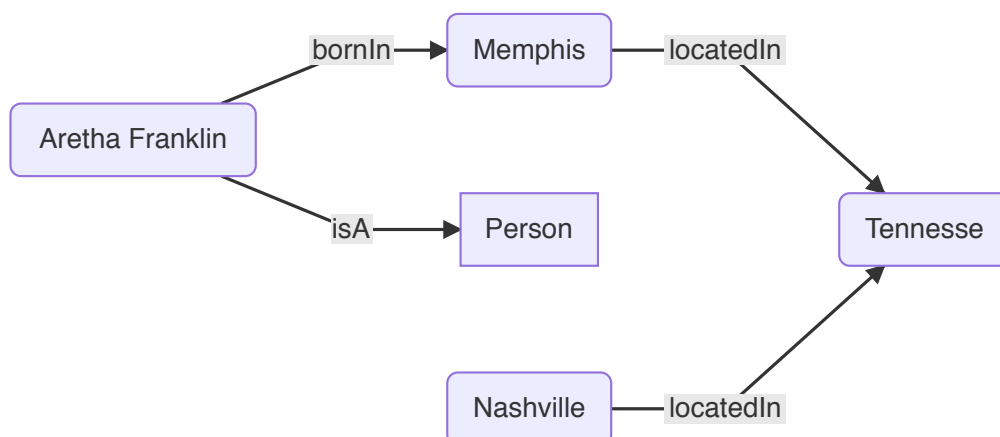
During this lab you will explore creating a Knowledge Graph and representing it in RDF.

Task 1

Using pen and paper, start drawing a knowledge graph to represent 2-3 films where there is some overlap in the content, i.e. they share an actor or genre. You should provide a type for each entity and a meaningful name for each relationship between your entities. In your diagram, you may only use nodes and edges connecting them.

For each film in your knowledge graph, you should capture its name, release date, genres, and lead actors.

Here is an incomplete starting point for a singer knowledge graph. How should the facts that Memphis and Nashville are both cities be represented? Is the notion of City the same for both of these?



Discuss your solution with your peers.

Task 2

Use <https://wikidata.metaphacts.com> to draw up your Knowledge Graph from the data contained in [Wikidata](#). Note that in Wikidata they use the property `wdp:P31` (instanceOf) to represent the type relationship.

- Which bits of your knowledge graph were you able to represent?
- Why do you think that you could not represent it all on the tool?

The below image shows the knowledge graph I constructed for [Brian May](#).

