

Knowledge & the web: homework 2

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The question we chose to answer is

Which politicians of the European Parliament have the most television appearances?

We are interested whether politicians also publicly appear outside the European Parliament, e.g. Di Rupo once appeared in the Flemish TV show "Salamander".

Needed knowledge bases

To answer this question we need the following information from the following sources.

ToE The ToE provides us with a list of international politicians, more specifically, we need all entities of class **Speaker** along with their **PoliticalFunction**.

LinkedTV The LinkedTV project aims to annotate media fragments with meta-information, such as which faces appear or entities are mentioned in it. Primarily, we are not interested in the actual show in which politicians appear, so having all **MediaFragment**'s along with their **Face** annotations would suffice. Here, we should note that a **Face** from the LinkedTV ontology is equivalent to a **Person** from the FOAF ontology, and that a ToE **Speaker** is a subclass of that.

BBC Already partly answering the next question, BBC also holds some information on who occurs in their programmes. For this, we need the **person** relation of the **Programme** class from BBC's programme ontology.

Expected issues

We might expect some issues with the LinkedTV knowledge base, browsing data.linkedtv.eu we encounter a lot of dead links. For example, data.linkedtv.eu/spatialobject is dead and a **Face** is a spatial object. If this would become an issue, we can use data from the BBC knowledge base instead. Here, each **Programme** also has some persons attached to it. This is of course far less fine-grained than the LinkedTV database, but might already give a good overview.

Furthermore, there are some other small issues that may arise:

- People are linked to specific fragments using facial recognition. As we all know, such algorithms are not flawless.
- There may be some inconsistencies for naming the speakers between the different knowledge bases. This could lead to different names for the same person.

We will take those last two issues under consideration if they really pose a problem.