OPENING

DEMO STEPS

* Show List of Museums and Monuments
* Search „abc“
* Details Museo ABC
  + Show infos and explain that you find additional info that you wouldn’t find directly on Google
  + Description, Public Transport
  + Jump: Ayuntamiento
  + Jump:Wikipedia
  + Map
  + Jump: Quarter
  + I like the quarter a lot! Let’s see what else is in the area
  + Quarter > Telefónica
  + 🡪 I can plan my route for the day and explore Madrid’s sights

[Moritz how did we do it… Open Data, Data Source Analysis, Resource Naming Strategy]

Ontology

* Basis: Resource Naming Strategy
* Reused widely known ontologies: **schema.org** (CivicStructure + Branches) and vcard
* 9 versions of the ontology – we had to adjust it quite often

Link Additonal Data

* Basis: Ontology, Resource Naming Strategy
* Added Wikidata links to entities (Museum/Monument itself, District, Quarter, Region, Metro Station)
* Added Link to the official Ayuntamiento de Madrid page for additional reference
* Used Openrefine to generate linked RDF

Application - Putting it all together:

* Used Apache Jena Fuseki as a RDF Triple Store
* Frontend: Angular + Node.js + Bootstrap (we did not have ANY experience before – we learnt a loooot!!)
* We queried the triple store from the angular app
  + queried wikidata to retrieve image
  + queried wikidata for links to wikipedia
  + queried google maps API for the map
  + added context-based links for additional info (context-based)
* added links based on context to navigate within the data (quarter) 🡪 value of RDF!