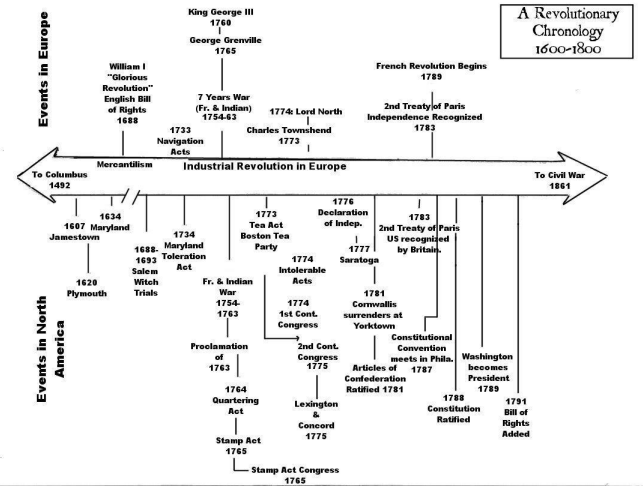
Call for Masters Thesis

FIZ Karlsruhe
Leibniz Institute for Information Infrastructure

Modeling Temporal Trajectory of Events associated with Wikipedia Entities

Objective of thesis: The objective of this thesis is to process Wikipedia pages containing information about an entity with a certain type such as person, country, etc. After extracting textual information from the Wikipedia page of a certain entity, temporal information will be extracted using existing tools [1]. For example, the Wikipedia page of the entity “Japan” contains a dedicated section about the historical events along with other temporal information.

This temporal information can be either one point in time such as **National Foundation Day: February 11, 660 BC** or a period of time such as **Asuka Period: 592 to 710**. It can then be represented in the form of Knowledge Graphs (KGs). The figure shows an example of temporal trajectory of chronological depiction of events happening in Europe and North America from 1600-1800. This thesis focuses on extracting and representing such trajectories in the form of KGs. This can further be made available as a web interface which takes the name of an entity as an input and shows its temporal trajectory as an output.



[1] https://github.com/HeidelTime/heideltime
[2] https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3254234

The thesis will be supervised by **Dr. Mehwish Alam, Information Service Engineering at Institute AIFB, KIT, in collaboration with FIZ Karlsruhe.**

WIKIPEDIA
The Free Encyclopedia

Keywords: Knowledge Graphs, Temporal Trajectories, NLP, Wikipedia.

Pre-requisites: Knowledge of Programming with Python and Javascript.

Please send your CV and questions (if any) to the following e-mail address.

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