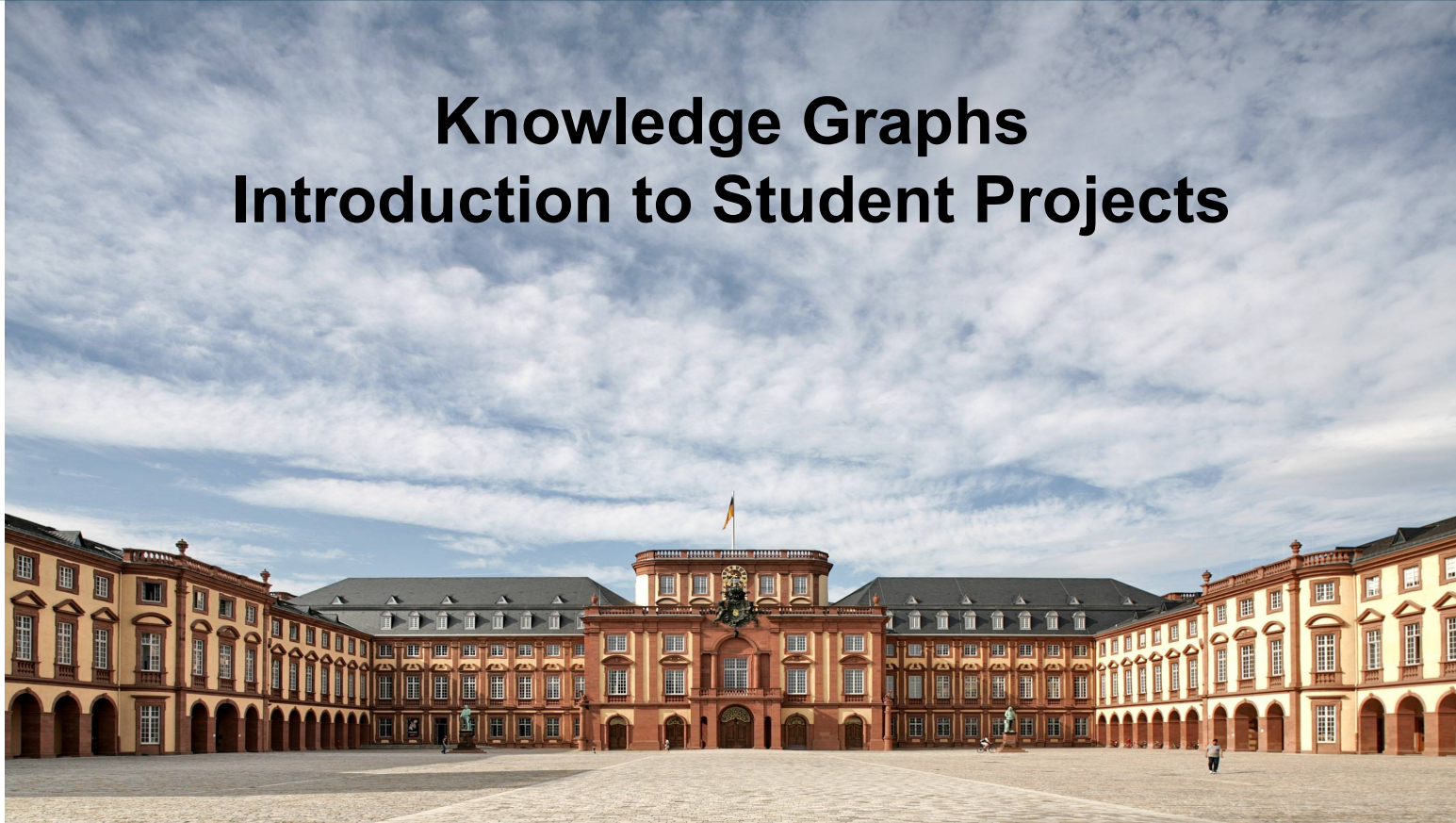


Knowledge Graphs Introduction to Student Projects



Heiko Paulheim, Sven Hertling

Student Projects

- Goals
 - Gain more practical experience with KGs
 - Become familiar with existing datasets
 - Understand possibilities and limitations of existing KGs
- Expectation
 - Choose one or more (preferably more) KGs
 - Build an interesting application with it

Interesting Applications

- Just a few possible examples
 - Quiz applications
 - Mobile apps with local information
 - Expert systems for a special domain
 - ...

Procedure

- Teams of **three to four** students
 1. realize a semantic web project
 2. write a **6 to 8 page** summary of the project and the methods employed in the project
 3. present the project results to the other students
- Finding a team
 - see previous e-mail (ILIAS forum, Spreadsheet)
- Final mark for the course
 - will be entirely based on the exam
 - the project, report, and presentation are a **mandatory** requirement!

Requirements

- The project you develop should
 - solve a real world task for end users
 - use one or more Knowledge Graphs
 - involve some processing beyond mere display of the data

Project Outlines

- 2-3 pages (sharp!) without title and TOC pages, DWS master thesis layout
- due **Sunday, October 8th, 23:59**
- send by e-mail to Sven (sven.hertling@uni-mannheim.de)
- answer the following questions:
 - What is the goal of the application you are going to build?
 - What are the example results you expect?
 - What datasets are you planning to use?
 - What techniques are you going to use?
 - How do you plan to evaluate your results?

Project Reports

- 6-8 pages (sharp!) without title and toc pages
- due **Sunday, December 10th, 23:59**
- send by e-mail to Sven and Heiko
- describe your solution including the steps to get there:
 1. Application domain and goals
 2. Datasets used
 3. Techniques used
 4. Example results
 5. Known limitations
 6. Lessons learned
- Requirements
 - Use the DWS master thesis layout
 - Please cite sources properly

Project Reports

- Application domain and goals
 - Which users are targeted?
 - Which user problems are solved?
 - Which user information needs are addressed?
- Datasets used
 - Which KGs does the application use?
 - How are they accessed (SPARQL, local)?
 - How do you combine information from different sources?
- Techniques used, e.g.
 - Reasoning
 - Search
 - external services

Project Reports

- Example results
 - What outcomes does the application provide?
 - How is are some user queries answered?
- Known limitations
 - In which domains does the application not work?
 - Are there queries which cannot be answered?
 - **Why?**
 - How could you overcome those limitations, given more time?
- Lessons learned
 - Which challenges did you face?
 - What were the biggest obstacles?
 - What would you do differently next time?

Deadlines at a Glance

- Submission of project work proposal
 - Sunday, October 8th 23:59
- Submission of final project work report
 - Sunday, December 10th, 23:59
- Final presentations
 - Tuesday, December 5th, lecture slot



Questions?

