

University of Konstanz
Winter Term 2014/2015
Visual Analytics Group
Jun.-Prof. Dr. Tobias Schreck
Hansi Senaratne

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A s s i g n m e n t 2 (2 0 p o i n t s)

Text Documents and Knowledge Representation

- 1) Explain the 5 major components of an Ontology and discuss based on these components, the differences between an Ontology and a Classification. **(5 P)**
- 2) How does the keyword based approach for retrieval in text documents work? What are its advantages and disadvantages? **(3 P)**
- 3) Define the measures of Precision and Recall by which we can assess the quality of a retrieval algorithm. **(5 P)**
- 4) Give two examples how precision and recall can be negatively affected in a keyword-based query. **(2 P)**
- 5) How can an Ontology be used to improve retrieval in text documents? **(2 P)**
- 6) Consider the tf*idf vector model for indexing text. Explain how the term weights are computed in this model, and give an interpretation of these values. **(3 P)**