

XTRIEVAL DESIGN GOALS

- Object-orientated API specification
- Usage of different retrieval toolkits / APIs
- Flexible evaluation component
- Simple but flexible configuration

XTRIEVAL FRAMEWORK DESCRIPTION

The basic idea of the Xtrieval Framework is to provide interfaces to combine different state-of-the-art text retrieval techniques on the one hand and to evaluate and integrate new methods for multimedia retrieval on the other hand.

ImageCLEF Track  
Photo Retrieval Task

ImageCLEF Track  
WikipediaMM Task

APPROACH AND RESULTS

COMPONENTS

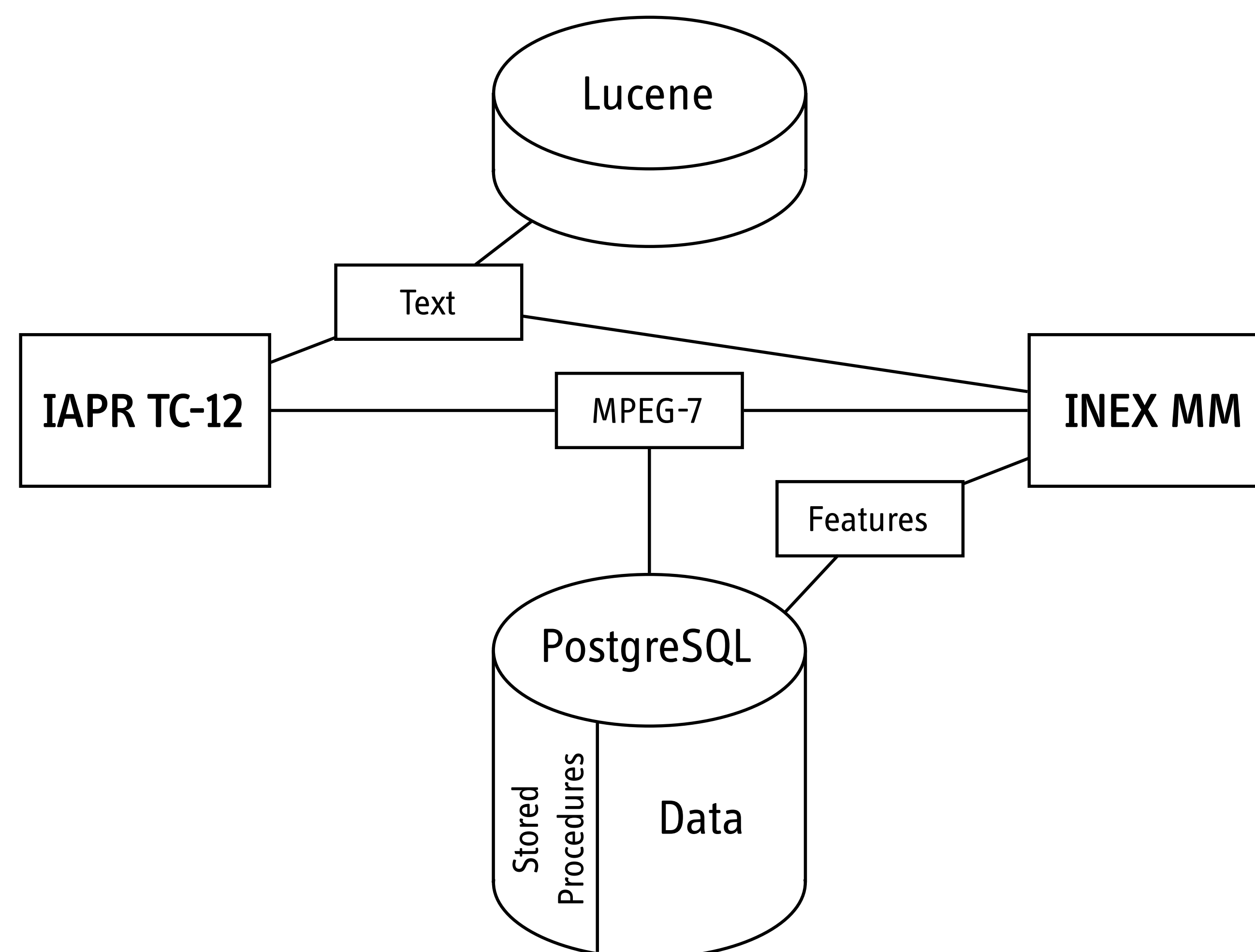
- Xtrieval Framework
- Lucene for text
- PostgreSQL for MPEG-7
- OpenOffice.org thesaurus

EXPERIMENTAL SETUP

- Text retrieval as baseline
- Thesaurus-based QE
- Re-ranking with MPEG-7 descriptors

RESULTS

experiment ID	modality	MAP
cut-txt	text	0.0998
cut-txt-qe	text	0.1081
cut-mix	text + img	0.1364
cut-mix-qe	text + img	0.1140



APPROACH AND RESULTS

COMPONENTS

- Xtrieval Framework
- Lucene for text
- PostgreSQL for MPEG-7 and concepts
- OpenOffice.org thesaurus

EXPERIMENTAL SETUP

- Text retrieval as baseline
- Thesaurus-based QE
- Re-ranking with MPEG-7 descriptors

RESULTS

experiment ID	modality	MAP
cut-txt-a	text	0.2166
cut-mix	text + img	0.2138
cut-mix-qe	text + img	0.2195
cut-mix-concepts	text + img + con	0.2048

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