

Information Retrieval Lab

Welcome to week 5 of the Information Retrieval class 2023

Agenda

1. Organization
2. Project Info: Milestone 2

Organization

Deadline Milestone 1 is THURSDAY, 04.05.23! (23:59 h) (Note: Yes, it has changed. You should have received an email about that. If not, notify us!)

Project Info: Milestone 2 – Methods

Overall Goals

- ❑ You will receive a ranked list of documents (run file) from us based on your datasets that you submitted in Milestone 1
- ❑ Create relevance assessments for the documents from Milestone 1
- ❑ Create a baseline information retrieval system that produces a run file using the topics you have created to assess the relevance of your information retrieval system
- ❑ Evaluate your baseline information retrieval system

Project Info: Milestone 2 – Methods

Sidenote

- ❑ What are relevance assessments?
- ❑ What is a **baseline** information retrieval system?
- ❑ What is a run file?

Project Info: Milestone 2 – Methods

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Relevance assessments are (mostly human) judgements, that indicate if a retrieved document is relevant to a specific search query. Binary relevance assessments only judge a document in terms of *relevant* or *irrelevant*.

- ❑ What is a **baseline** information retrieval system?
- ❑ What is a run file?

Project Info: Milestone 2 – Methods

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- ❑ What is a **baseline** information retrieval system?

A baseline information retrieval system is a simple and widely spread retrieval method applied to a dataset. It retrieves documents using known methods (e.g. BM25).

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Project Info: Milestone 2 – Methods

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- ❑ What is a run file?

Your TIRA submission from milestone 1 produced a run file on tira. This file contains a ranked list of documents for specific topics/queries.

Project Info: Milestone 2 – Methods

What to do

- ❑ Create binary relevance assessments (qrels) of the output from Milestone 1 (run file). The qrels file must follow the standard TREC style:

```
qid 0 docno relevance
```

`qid`: query number, `0`: literal `0`, `docno`: id of a document in your collection, and `relevance`: how relevant is `docno` for `qid`.

Include your relevance assessments into the dataset you created in Milestone 1 and register it into `ir_datasets` as before.

- ❑ Create a baseline retrieval system that will produce a run file in the same format as the output of Milestone 1, that is standard TREC run file format:

```
qid Q0 docno rank score tag
```

`qid`: query number, `Q0`: literal `Q0`, `docno`: id of a retrieved document, `rank`: position (1 to max 1000) in the ranked list, `score`: score computed by your retrieval system, and `tag`: identifying name of the retrieval system.

- ❑ Evaluate the effectiveness of this baseline information retrieval system using the relevance assessments you created in the first step of Milestone 2.
- ❑ Persist your run in TIRA by following this tutorial: <https://github.com/>

mam10eks/ir-lab-sose-2023/tree/main/milestone-02

Project Info: Milestone 2 – Methods

What to hand in

- ❑ Your relevance assessments as qrels.txt file and the effectiveness scores that your baseline retrieval system obtained via email to harry.scells@uni-leipzig.de and theresa.elstner@uni-leipzig.de
- ❑ Upload and execute your baseline information retrieval system in TIRA on the dataset that you submitted as milestone 1

Project Info: Milestone 2 – Methods

When to hand in

DEADLINE FOR MILESTONE 2 is the 06.06.23