Information Retrieval

Exercise – Winter term 2025/2026

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Agenda

1. TIRA Account

2. TIRA Token

3. TIRA Dry Run

4. TIRA Submission

Assignment

- Implement one or more retrieval systems

- Due Date: Monday, 15.12.2025, 23:59

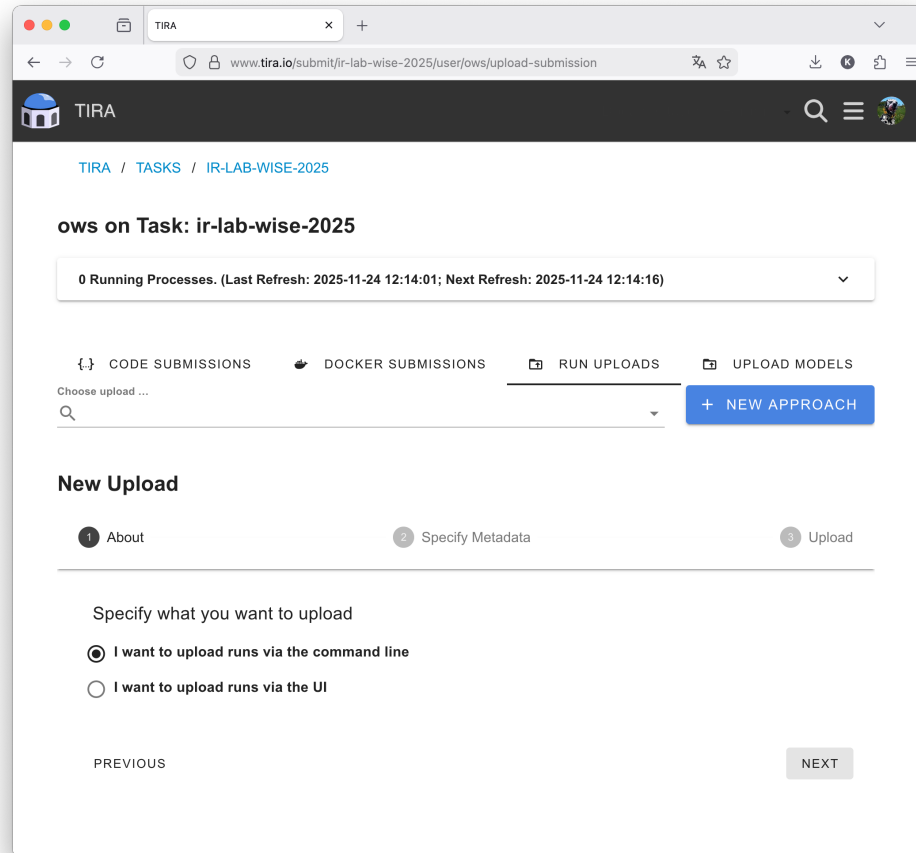- Deliverable: TIRA submission(s)

TIRA Account
TIRA Integrated Research Architecture

1. Sign up to TIRA.

   ❏ You may use `Login in with GitHub`.

2. Go to `GET STARTED`.
3. Go to `IR Lab Jena/Kassel/Radboud WiSe 2025`.
4. Register your team.

TIRA Token
Upload Runs

(1) Go to `IR Lab Jena/Kassel/Radboud WiSe 2025`, (2) click on `SUBMIT`.

Display personal token for uploading runs to TIRA by clicking on `NEXT`.

TIRA CLI

The TIRA CLI is included in the Python-based TIRA client.

To install it, simply install the TIRA client via: `pip install tira`.

```
● klara@ws04 pyterrier-baseline % tira-cli --help
usage: tira-cli [-h] [-v] {download,upload,evaluate,login,verify-installation,code-submission,dataset-submission} ...

positional arguments:
  {download,upload,evaluate,login,verify-installation,code-submission,dataset-submission}
    download              Download runs or datasets from TIRA.io
    upload                Upload runs or datasets to TIRA.io
    evaluate              Evaluate runs locally.
    login                 Login your TIRA client to the tira server.
    verify-installation
                          Verify that your local TIRA client is correctly installed.
    code-submission       Make a code submission via Docker from a git repository.
    dataset-submission    Submit a new task/dataset to tira.

options:
  -h, --help              show this help message and exit
  -v, --version           show program's version number and exit
```

TIRA CLI help page *.

```
PROBLEME 5    AUSGABE    TERMINAL    ···        ⤷ zsh - template-new-approach  + ∨  ☐ 🗑 ··· |  ⌄⌃ ×
● klara@ws04 template-new-approach % pwd
/Users/klara/Developer/Uni/WS2526/wows-code-ws2526/ecir26/template-new-approach
● klara@ws04 template-new-approach % ls output/runs/radboud-validation-20251114-training/pyterrier-BM25-on-title
ir-metadata.yml  run.txt.gz
```
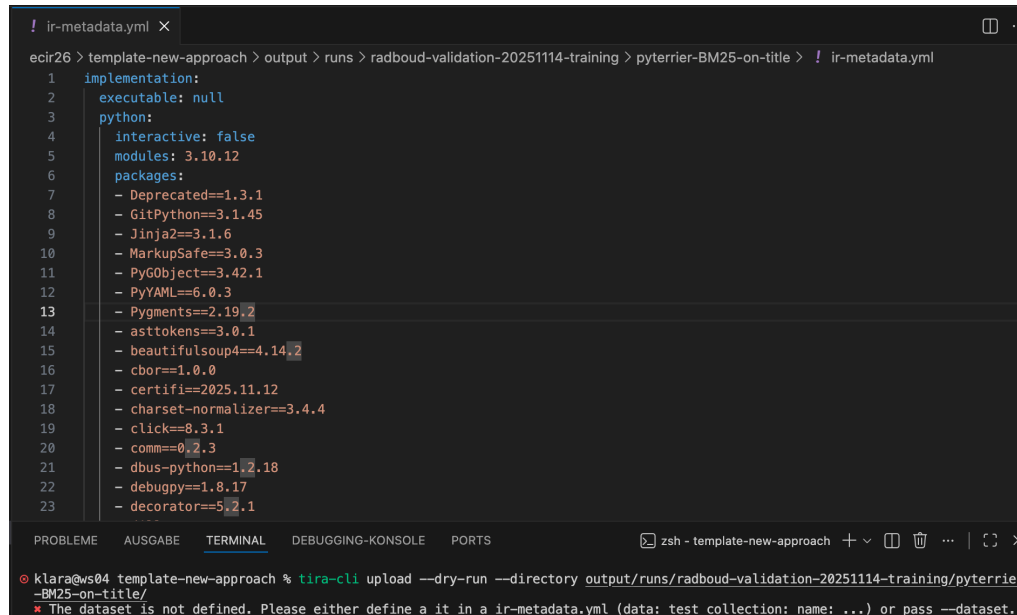
Ensure that the directory you upload follows the expected submission structure

described in the [README] file.

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* As of 09.12.2025, TIRA version 0.0.193.

TIRA Dry Run
Verify your submission

Example for error upon invalid `ir-metadata.yml` file.

Placeholders for missing content of file is defined in the [submission-skeleton].

TIRA Dry Run
Verify your submission

Example for valid `ir-metadata.yml` file.

If `tira-cli upload --dry-run` fails, log in first using `tira-cli login -token <YOUR-KEY>`. You can find `<YOUR-KEY>` as described on the slide "TIRA Token".

TIRA Submission
Upload your solution

Make sure that your `ir-metadata.yml` file specifies `<YOUR-TEAM-NAME>` as the value for "actor: team:" (cf. previous slide).

```
klara@ws04 template-new-approach % tira-cli upload --dataset radboud-validation-20251114-training --directory output/runs/radbou
d-validation-20251114-training/pyterrier-BM25-on-title/
I check that the submission in directory 'output/runs/radboud-validation-20251114-training/pyterrier-BM25-on-title/' is valid...
    ✓ I will check that the data in output/runs/radboud-validation-20251114-training/pyterrier-BM25-on-title is valid ...
    ✓ The run in directory output/runs/radboud-validation-20251114-training/pyterrier-BM25-on-title is valid.
    ✓ The file ir-metadata.yml is valid.

Upload output/runs/radboud-validation-20251114-training/pyterrier-BM25-on-title to TIRA: 100%|█| 1.19M/1.19M [00:01<00:00, 634kB

    ✓ The data is uploaded.

I upload the metadata for the submission...
    ✓ Done. Your run is available as pyterrier-BM25-on-title at:
    https://www.tira.io/submit/ir-lab-wise-2025/user/ows/upload-submission
```

Upload a valid submission following the steps described in the TIRA submission instructions.

You can find guidance on where to access the TIRA submission instructions on the slide "TIRA Token".