Exercise 0

The Team

Lecturers

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Our Research Lab

Dynamic Vision and Learning Group

https://dvl.in.tum.de/

About the Practical

- Practical:

  - Every Thursday 14-16h → more info in TODAY!

  - Exercises/QA will also be streamed/recorded

  - Please try to use this session to ask questions as much as possible! ☺

  https://dvl.in.tum.de/teaching/cv3dst-ss22/

Moodle

- Announcements via Moodle - **IMPORTANT!**
  - Sign up in TUM online for access:
    https://www.moodle.tum.de/
  - We will share common information (e.g., regarding exam)
  - Ask content questions online so others benefit
  - Don't post solutions

Emails & Slides

- All material will be uploaded on Moodle and the web
- Questions regarding the syllabus, exercises or contents of the lecture, use Moodle!
- Questions regarding organization of the course:
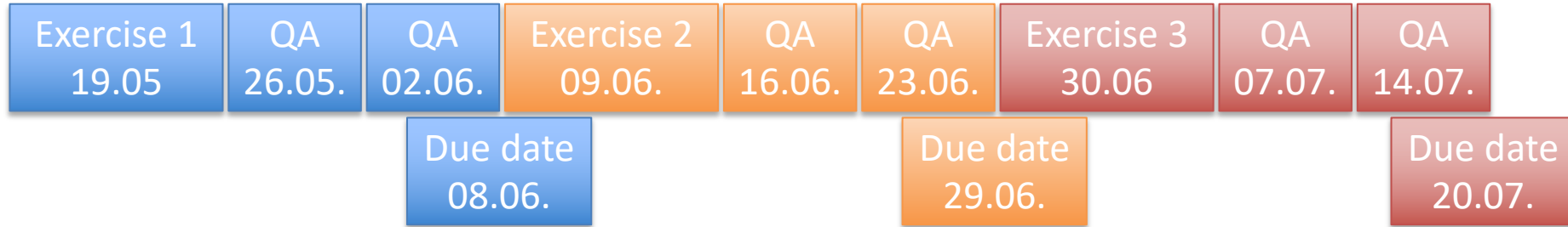
dst@dvl.in.tum.de

- Emails to the individual addresses will not be answered.

What this course is:

- A course on Computer Vision
  - Object detection
  - Instance and semantic segmentation
  - Multiple object tracking in 2D and 3D

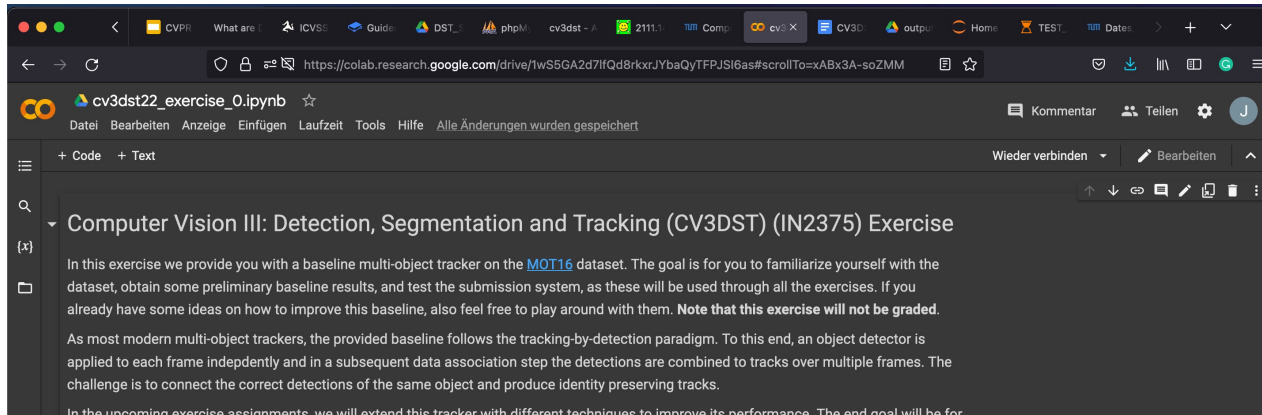→ 3 corresponding exercises over the whole semester

About the exercises

- 3 weeks for each exercise + QA between then

| Exercise 1 19.05 | QA 26.05. | QA 02.06. | Exercise 2 09.06. | QA 16.06. | QA 23.06. | Exercise 3 30.06 | QA 07.07. | QA 14.07. |

Due date 08.06.

Due date 29.06.

Due date 20.07.

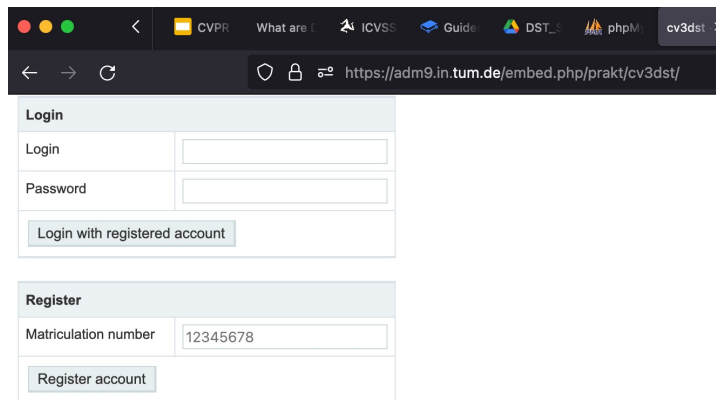→ Deadline always 23:59 CET on due date

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- 3 weeks for each exercise

- Exercises provided as jupyter notebooks in colab

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- Exercises provided as jupyter notebooks in colab
- Train/tune tracker on training set, submit results on subset of test set to test server (4 trials/exercise)
- Pass a certain threshold (different for each exercise)

Available files in /usr/prakt/s0260/submit

CV3DST Submission for Tracking Challenge

Please submit your results of the cv3dst tracking challe

 MOT16-01, MOT16-03, MOT16-08, MOT16-12

an can be downloaded here . The training data can be d

MOTA Threshold: 20
IDF1 Threshold: 20

Note that you are only allowed to test your method **4 tim**

About the exercises

- 3 weeks for each exercise
- Exercises provided as jupyter notebooks in colab
- Train/tune tracker on training set, submit results on subset of test set to test server (4 trials/exercise)
- Pass a certain threshold (different for each exercise)

→ Grade bonus of 0.3 if you pass 3/3 exercises and upload all notebooks in time

Exercises

- Exercise 0 (doesn't count):
  - Get to know data and environment (**today**)
- Exercise 1:
  - Build a tracker based on position and appearance (19.05.)
- Exercise 2:
  - Build a tracker using a graph neural network (09.06.)
- Exercise 3:
  - Competition! (30.06.)

Links

- Test server:
  https://adm9.in.tum.de/embed.php/prakt/cv3dst/

- Exercise 0:
  https://colab.research.google.com/drive/1wS5GA2d7l
  fQd8rkxrJYbaQyTFPJSI6as?usp=sharing