Q&A

Intro

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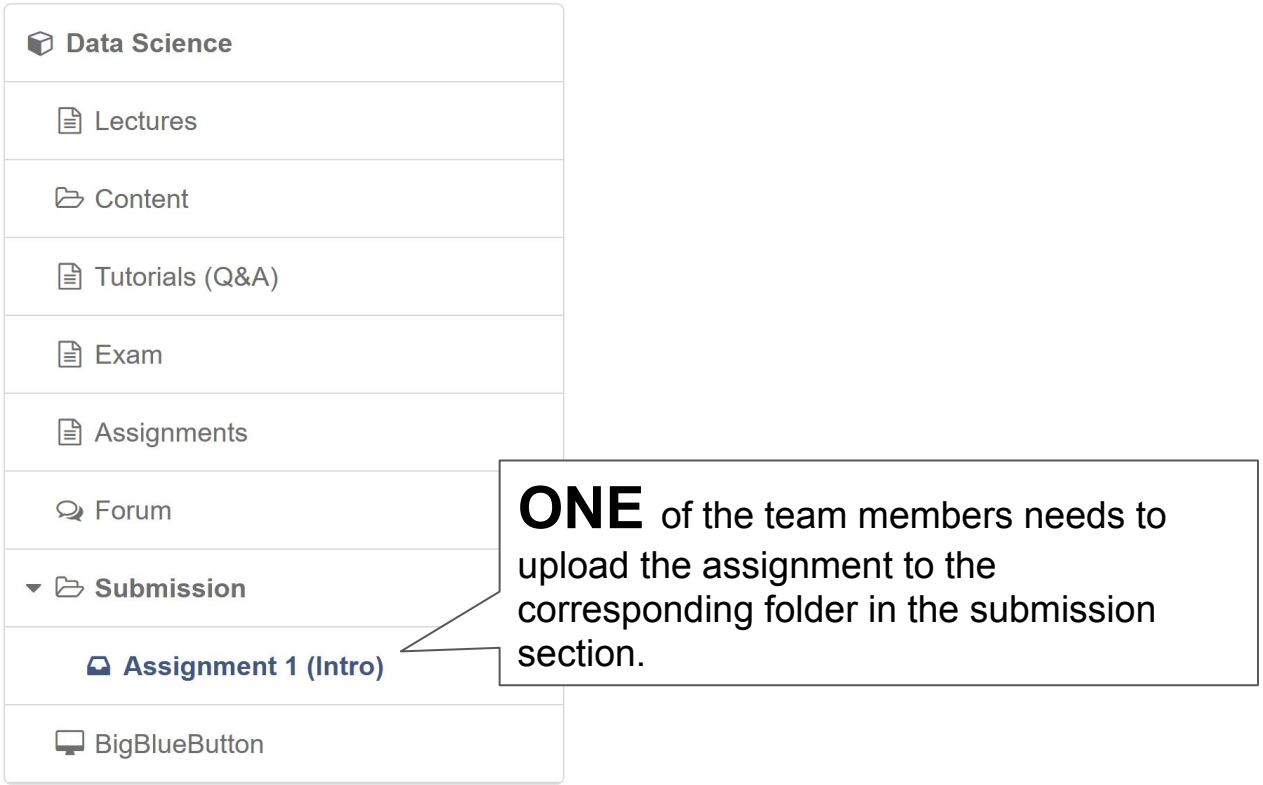
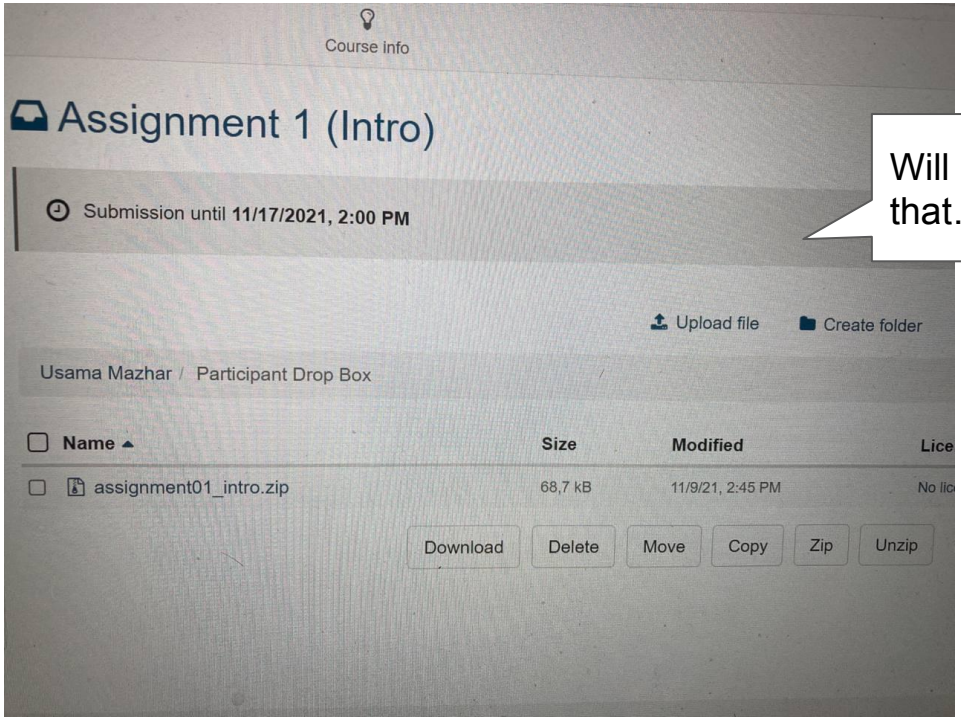
Do the new exam admission rules hold for me?

- You will be allowed to participate in the next exam if you **formally failed** (not passed) the last exam. All other students are subject to the current admission rules.
- Registering/deregistering for the last exam, without being graded, is **not** considered as formally failing.
- We will **not be able to transfer bonus points** from last year.
- The Idea behind this is that we need some mechanism to effectively implement this.

How to submit the assignments over OLAT?



How to submit the assignments over OLAT?

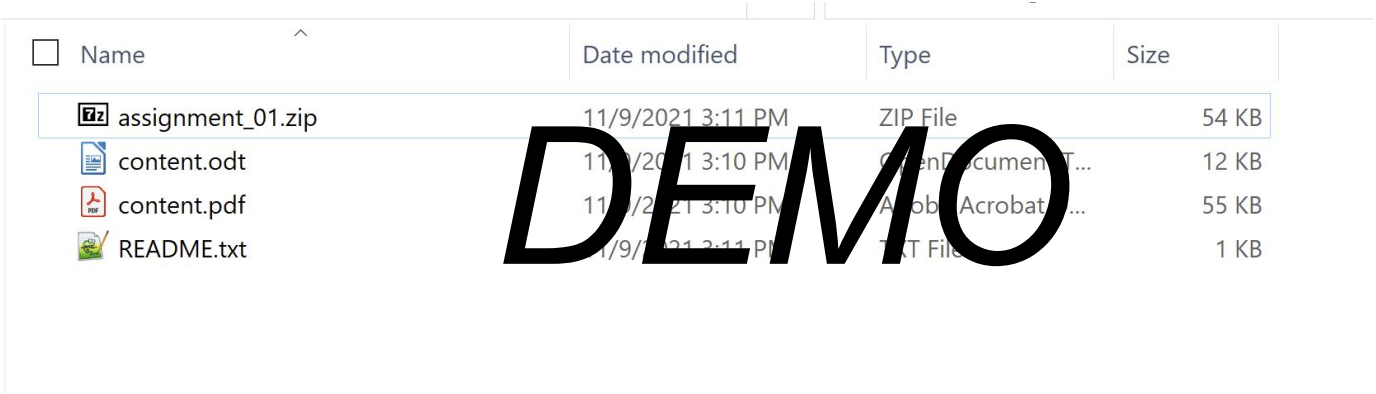


Will presumably look like that…

How to structure the submission?

- Please follow the guidelines:
  - Bundle your assignment files into ZIP.
  - Always append a **README.txt file** that:
    - Clarifies the structure of the submission.
    - **Including the names of all team members.**
  - Use PDF for any sort of written text or diagrams.
  - Use conventional source files for code submissions
    - Please stick to relative/configurable file paths to ease reproduction.
  - Use CSV files for data.
- Please do **not**
  - … use Word (or comparable) files formats. Convert to PDF first.
  - … **send huge amounts of data.** If you need to send huge data, limit it to a fraction or take a sample (and indicated on this in the README)

How to structure the submission?



How to structure the submission?

README.txt

```
Team members:

first,last,user
Johannes,Härtel,johanneshaertel
Usama,Mazhar,usama12345

Structure:
The solution to question 1 can be found in content.pdf.
```

DEMO

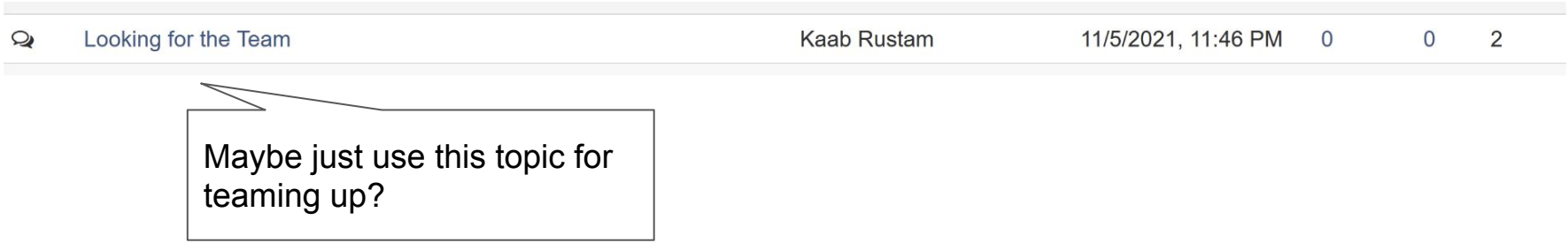
Assignment 1 (and Example)

Question	**Design**	**Study Type**	**Critical for the Study Type**	**Data Sources**
Write 1 sentences covering a research question.	*Write 1-2 sentences describing the study design.*	*Classify the study design into the experimental and observational study type.*	*Write 1-2 sentences to explain why you associate it with the particular study type and not the other.*	*Add existing digital data sources (if not experimental study).*
Does IQ of a mother influence the IQ of a child?	We collect data on mother and child IQ and check the relation.	Observational	We can not modify the IQ of the mother.	We may analyze written text in social networks and ancestor relations.

You need 4 of those rows (2 Observational / 2 experimental)

How can we help you to team up?

- Any other suggestions how to solve this?



Python or R?

- You will be allowed to **freely decide** which of both you want to use. You may even mix them up for different processing steps.
- We will try to **provide examples in both languages**, but we will not do this exhaustively.
- In some case, it is better to stick to one or the other:
  - Advanced statistical stuff and simulations are easy in R.
  - Computation heavy and crawling centric code is better to write in Python.
  - However, most things can be done in both.

Python or R: Python code for a basic simulation

```
import random
import pandas as pd
from scipy.stats import ttest_ind

n = 21

group = random.choices(["MegaL", "None"], k=n)

time = [random.gauss(31, 5) if x == "MegaL" else random.gauss(31, 5) for x in group]

df = pd.DataFrame({'group': group, 'time': time})

g1 = df[df['group'] == 'MegaL']
g2 = df[df['group'] == 'None']

print(ttest_ind(g1['time'], g2['time']))
```