

# Meeting 12.04.2022

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Start: 16:02

End: 16:37

Attendance (in Zoom):

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## 1. Situation

### a. Crawler now an interface

- i. Working
- ii. Implemented Search for Coordinates and w3w search
  - 1) Difficulties using word search or city names
- iii. YouTube search working
- iv. Videos get ranked
- v. Download to folder working
- vi. TODOs:
  - 1) Place search
  - 2) Download method clean up
  - 3) Installer for Python libraries

### b. Pre-processing

- i. Splitting by frames roughly there

### c. H-Log

- i. Problem Multiple models for one continues video
  - 1) To many pictures -> split in multiple maps
  - 2) Sometimes losing track
- ii. Solution
  - 1) Try more pairs for more links
  - 2) Extending number of matches and about 10 second timeframes
- iii. Is sequential maps by Colmap utilised in H-Log?
  - 1) Unsure no, check by running Colmap on the video
  - 2) Refence to potential solution:
    - a) Link: <https://github.com/cvg/Hierarchical-Localization/pull/175>
- iv. Camera model in H-Log is really basic
  - 1) Could be changed later on
- v. Framerate
  - 1) 1-5 FPS is good for now
  - 2) Make it adaptable
- vi. Colmap map merger useful?
  - 1) To find out
  - 2) Look in later on
  - 3) Loop closure more the Idea to use

## 2. Questions:

### a. Interface

- i. Command line fine
- ii. Would be great to have a command to run all of it

### b. 3D Mash tool for presentation in js

- i. Link: <https://threejs.org/>
  - c. Is there a Budget?
    - i. Not really, let's keep it as is.
- 3. Mid Term Plan
  - a. Finished Crawler
  - b. Basic pre-processing
  - c. Running H-Log on the highest ranked video continuously with one Maps output
- 4. Next Meeting
  - a. Discussed via Teams or E-Mail