**HW4 Text Report**

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1. How many images are there in your dataset? And how many matched images are

there in the log.txt file?

**A. 301 images are captured, with 259 matched images.**

2. If someone wants to create their own NeRF model today, during the data collection stage (recording or taking photos), how would you advise them to make the subsequent model more comprehensive?

**A.**

**1. Ensure that your photo collection covers the subject from multiple angles and distances. (In polycam, we can view regions that are not observed currently)**

**2. Maintain consistent lighting conditions across all photos.**

**3. Avoid reflections (of computer screens or glasses).**

3. During the data collection stage, may I ask how many attempts you made in total

and how much time you spent?

**A. 4 Attempt; Approximately 12 hours.**

4. Please provide a link to the nerfstudio folder on your cloud drive and grant viewer

permissions for the link.

[**https://drive.google.com/drive/folders/1K468DfNcn9k8Zb-7YwU-xFOnz4y3Ukmb?usp=drive\_link**](https://drive.google.com/drive/folders/1K468DfNcn9k8Zb-7YwU-xFOnz4y3Ukmb?usp=drive_link)

5. If you are using the COLMAP method, please describe how to execute it in practice, including relevant commands and code. (optional)

**A. Install COLMAP, find ‘colmap2nerf.py’ in repo of ‘Instant-ngp’, set environment variables, and run the command to get ‘transforms.json’ which is required in NeRF.**

**[python colmap2nerf.py --colmap\_matcher exhaustive --run\_colmap --aabb\_scale 16 --images images]**