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The work on the reproducibility of this project is praiseworthy. All required dependencies and build steps are carefully noted in the provided git repository. A series of scripts allow to automatically rerun the experiments, reproduce the results, and recreate some of the plots in the paper. The reproduced results are similar to the values reported in the paper and, importantly, all relationships between the compared methods are maintained.

1 INTRODUCTION
This is a reproducibility report for the paper [1]. To summarize, the central results and claims of the paper are supported by the submitted experiments. The key figures have been reproduced accurately enough. The reproducibility scripts is easy to use and well-documented.

2 SUBMISSION
The reproducibility submission consists of the detailed instructions on project dependencies and how to rerun the experiments with a Makefile acting as a command-line entry point for the reviewer. Several Python scripts are provided for running experiments and recreating results. Paper figures can be generated automatically by figure scripts with detailed log files.

The submission contains:
- Github repository with code and scripts at: https://github.com/1flei/lccs-lsh
- Data sources at: https://1drv.ms/u/s!Ascf3jEjrVdxg6c6w7CutkF0TpXgpA?e=fjnR80

3 HARDWARE AND SOFTWARE ENVIRONMENT
Table 1 describes the resources used in the original paper used and our reproducibility effort.

<table>
<thead>
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<th></th>
<th>Paper</th>
<th>Repro Review</th>
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<td>g++</td>
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<td>8.4</td>
</tr>
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</table>

4 REPRODUCIBILITY EVALUATION
4.1 Process
The experiments are reproduced on the four datasets (Msong, Sift, Gist, Deep) attached in this submission. The scripts run the proposed approaches and other baselines sequentially on those datasets. The plot scripts parse the produced files and generate figures shown in the paper. It was possible to follow the reproducibility instructions without the authors’ help.
4.2 Results
The following figures have been reproduced: Figure 1, Figure 2, Figure 3 and Figure 4. The obtained numbers and the visual plots appear to be close enough to the paper’s reported values [1]. The deviation is attributed to the differences in hardware. Most importantly, the relationships between different baselines’ performances match the ones reported and discussed in the paper.

5 SUMMARY
The major figures have been reproduced on the reproducibility platform. The ideas, claims, and findings supported by these figures are therefore reproduced as well.

REFERENCES
Fig. 3. Indexing time & recall under Euclidean distance (corresponding to original paper Fig 6)

Fig. 4. Indexing time & recall under Angular distance (corresponding to original paper Fig 7)