

Supplementary material for: Asymmetric Region-to-Image Matching for Comparing Images with Generic Object Categories

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To provide a convincing sense of how well our matching algorithm works, in this document we show a large number of examples of our matching results on the Caltech-256 dataset. Most of the exemplars are chosen from hard categories for which a baseline algorithm tested by the dataset creators (Lazebnik and colleagues' spatial pyramid match with an SVM) was found to have below-average accuracy [1]. We also include a few of the easier categories (e.g., fire truck and motorbike).

For each query image (repeated six times in the top row of each group), we show its six nearest neighbor exemplars (the six images in the bottom row of each group), along with corresponding points between them. The small cyan squares denote the subset of densely sampled SIFT points that formed the final correspondence between the query and matched image, according to our algorithm. Note that different points are marked on each instance of the query, since different points contribute to each of the six individual matches. An exemplar image surrounded by a red square denotes that it belongs to the same category of the query.

Best viewed in color.

References

- [1] G. Griffin, A. Holub, and P. Perona. Caltech-256 Object Category Dataset. Technical report, CalTech, 2007.























