

8-6-10

One Shot Recognition

-Antonio Rodriguez

- Trying different approaches.

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- Decided to try a simple approach.
- Attempt to categorize based on maximum histogram intersection.
- Attempt to categorize based on minimum histogram difference.

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- Caltech 101 Data Set

Method	Number of training images per category	Data Normalized	Data Not Normalized	SVM Results (For Comparison)
Histogram Intersection	1	13.94%	9.89%	21.70%
Histogram Difference	1	21.70%	13.87%	21.70%

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- Caltech256 (226) Data Set

Method	Number of training images per category	Data Normalized	SVM Results (For Comparison)
Histogram Intersection	1	----	2.35%
Histogram Difference	1	2.53%	2.35%

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- Fantastic results for such a simple process.
- Working to organize all of the meaningful results into a spread sheet.
- Running the last few tests before submitting the final spreadsheet.