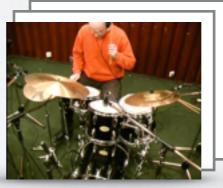
SOUNDPOUND

Input: video





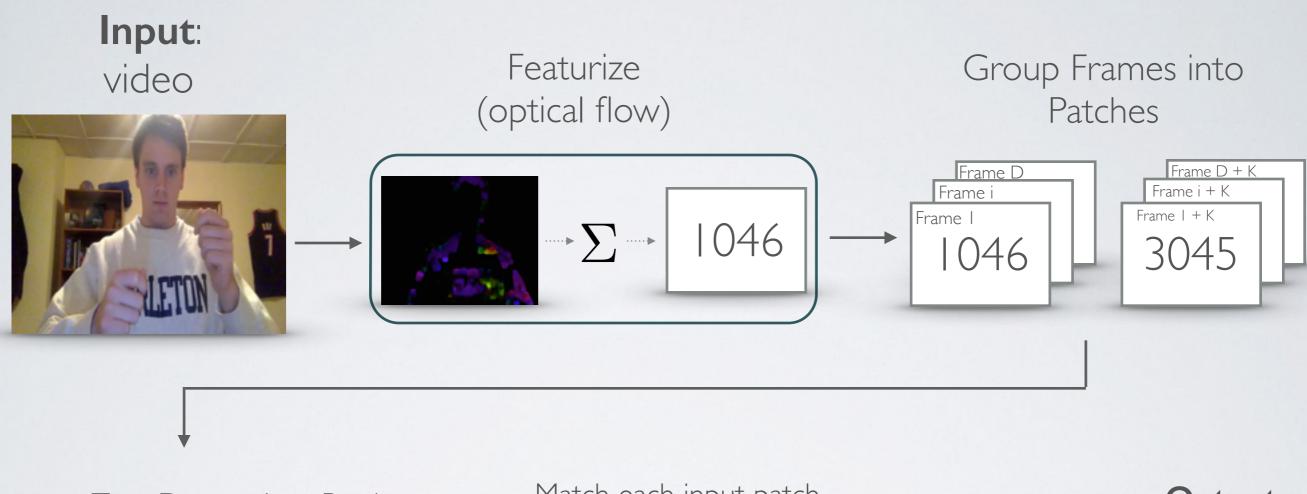


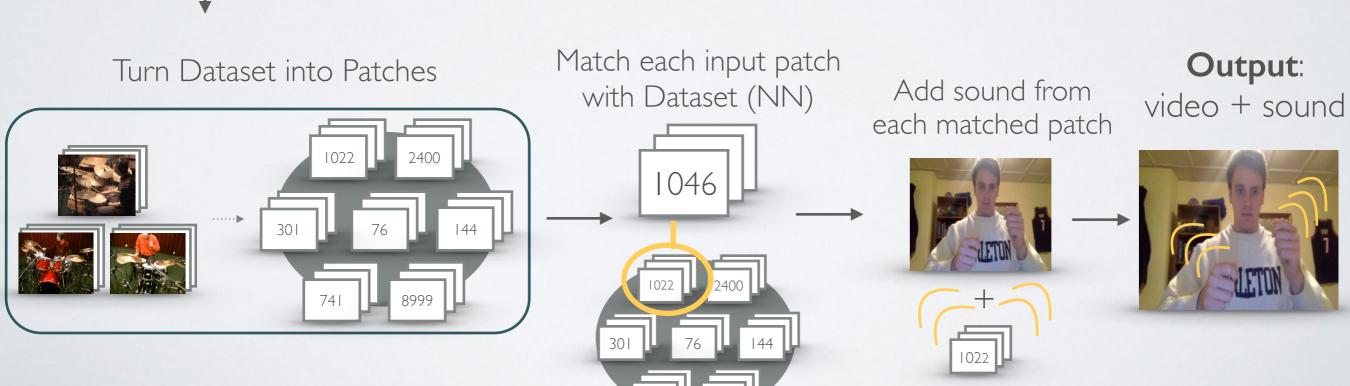
Output: video + sound



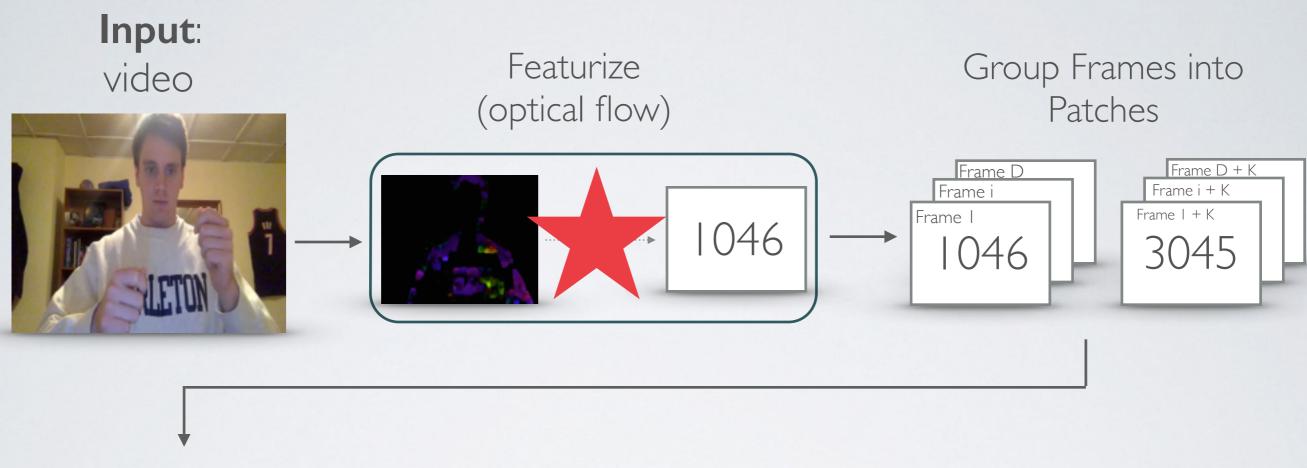
David Abel CS2951-B 12/17/14

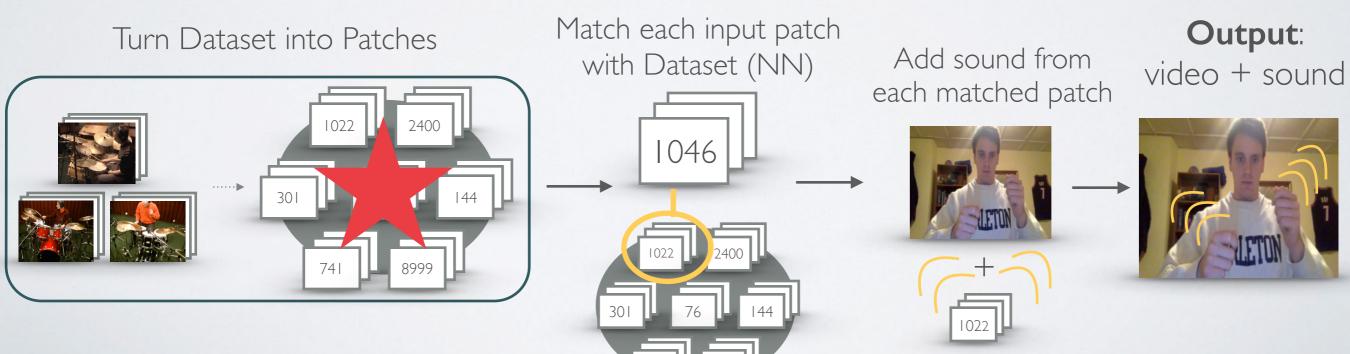
PIPELINE OVERVIEW





PIPELINE OVERVIEW

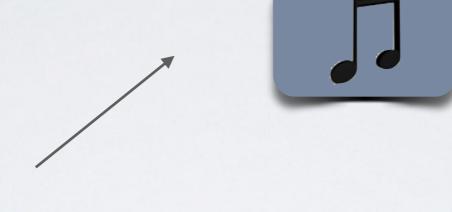




HOWTO EVALUATE

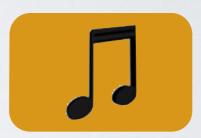
EVALUATION









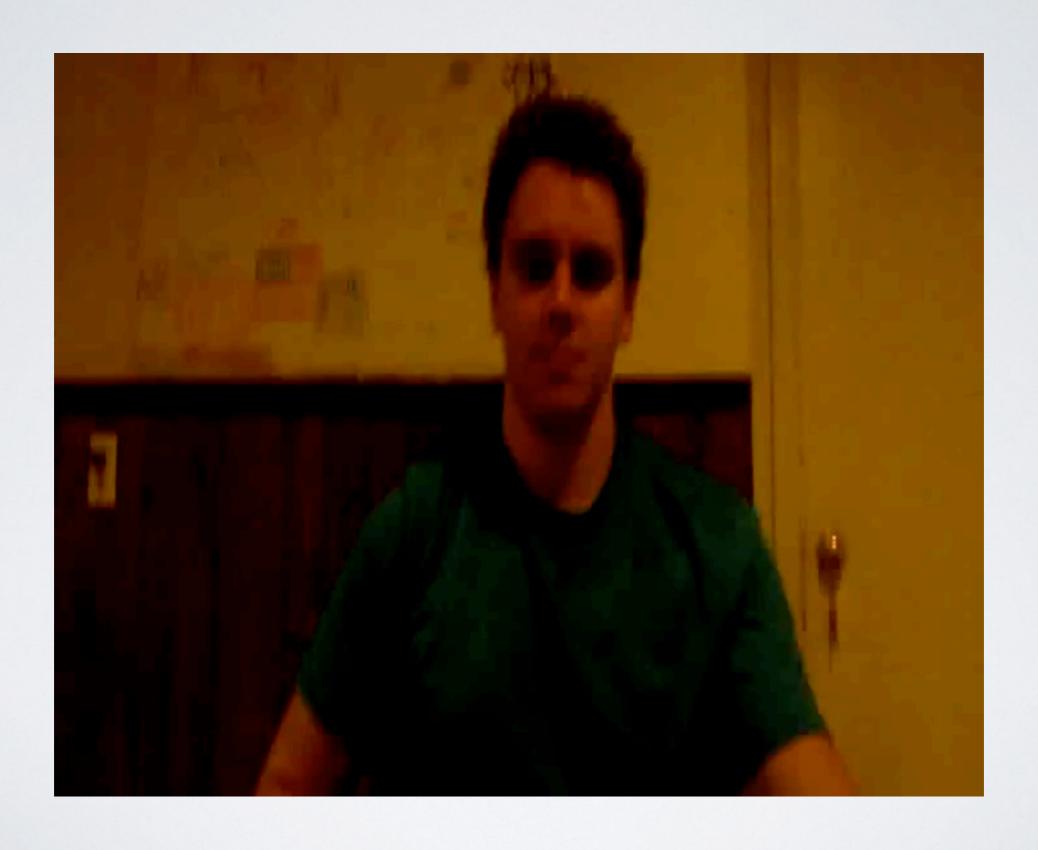


soundpound

EVALUATION METRICS

- 1. Mean Squared Error in SOUND per frame
- 2. Total difference in sound
- 3. Mean Temporal Segment Error (accounts for playing the correct sound, but playing it a bit too soon/too late)

PRELIMINARY RESULTS



NEW RESULTS

NEW RESULTS



NEW RESULTS





NEW FEATURES

- Random
- Average
- Max
- Sum
- Max Vector Angle

EVALUATION

PERFORMANCE



PERFORMANCE II (#DATA)

SUMMARY

- Developed full SOUNDPOUND system, works in around 20 seconds for a 10second video.
- Created quantitative evaluation framework and performed feature selection across possible representations using framework

