

## CAPP 30123 Project Proposal

Group Name: The Da Vinci Code

Group Members: Rose Gao, Yangyang Dai, Xi Chen, Liqiang Yu

Dataset: Stanford I2V Dataset

- Link: <https://exhibits.stanford.edu/data/catalog/zx935qw7203>
- Size: 150 videos which are about 10 GB each, 227 images

### Stanford I2V Dataset

Full version	Light version
3.8k hours	1k hours
84k video clips	23k video clips
229 query images	78 query images
14M keyframes@1fps	3.8M keyframes@1fps
2.7 minutes/clip	2.65 minutes/clip

General Goal:

Image-to-video (I2V) visual search

Specific steps:

- “Compare query signature<sup>1</sup> to video frames’ signatures (@1fps) from entire database”
- “Evaluate performance over top 100 ranked clips”

### Reference

Araujo, A., Chaves, J., Chen, D., Angst, R., & Girod, B. (2015, March). Stanford I2V: a news video dataset for query-by-image experiments. In *Proceedings of the 6th ACM Multimedia Systems Conference* (pp. 237-242). ACM.

Lowe, D. G. (2004). Distinctive image features from scale-invariant keypoints. *International journal of computer vision*, 60(2), 91-110.

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<sup>1</sup> Signature refers to “certain image matching techniques used in computer vision, including object or scene recognition, solving for 3D structure from multiple images, stereo correspondence, and motion tracking” (Lowe, 2004).