

1. Color Feature Extraction
  - a. LAB, RGB, HSV implementation in openCV
2. Naive Siamese Network
  - Used trained model of a CNN (caffenet) as part of "siamese network" to extract features
  - Used similarity metric to judge similarity score (0.0 - 1.0)
  - Did not work as different identities had better scores than similar identities
  - Added color features
  - Same results
3. Siamese Neural Network Readings
  - a. <https://arxiv.org/pdf/1611.05666.pdf>
    - i. Most basic with partial caffe implementation on github
  - b. <http://www.cbsr.ia.ac.cn/users/zlei/papers/ICPR2014/Yi-ICPR-14.pdf>
  - c. [https://www.cv-foundation.org/openaccess/content\\_cvpr\\_2016/papers/Cheng\\_Person\\_Re-Identification\\_by\\_CVPR\\_2016\\_paper.pdf](https://www.cv-foundation.org/openaccess/content_cvpr_2016/papers/Cheng_Person_Re-Identification_by_CVPR_2016_paper.pdf)
4. Legit Siamese Neural Network
  - a. Still doing data preparation right now
  - b. Layers/deploy.prototxt written, not yet tested
  - c.