## **Embedding.. What & Why?**

## Deep Pixel Embedding

- Mapping: Pixels → Vectors
- General and powerful: word2vec, even world2vec (Yann LeCun) [1]
- Embedding → Clustering

[1] http://www.pamitc.org/cvpr15/files/lecun-20150610-cvpr-keynote.pdf





## **Loss Function**

## Deep Pixel Embedding

$$L_{emb} = L_{inter} + L_{intra}$$

To repulse different-instance embeddings away To attract same-instance embeddings together

