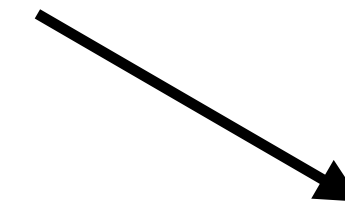
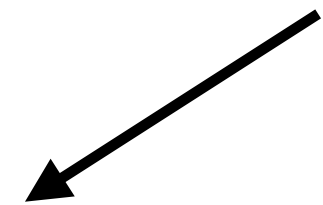


- Mapping: Pixels \rightarrow Vectors
- General and powerful: *word2vec*, even *world2vec* (Yann LeCun) ^[1]
- Embedding \rightarrow Clustering

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

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



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