GloVe

GloVe Structure

- Overcome the disadvantages of Word2Vec, LSA
 - LSA, Hard to measure the similarity among the words
 - Word2Vec, Does not reflect the whole corpus' statistical info.(very local)
- Define a 'objective function'

$$\mathcal{J} = \sum_{i,j=1}^{|V|} f(A_{ij})(U_i \cdot V_j + b_i + b_j - \log A_{ij})^2$$

Minimize the gap between $U_i \cdot V_j$ and A_{ij}

= decreases train loss

GloVe Structure

To find an embedding vector which minimize an objective function,
Matrix factorization is needed. (High computational complexity)

