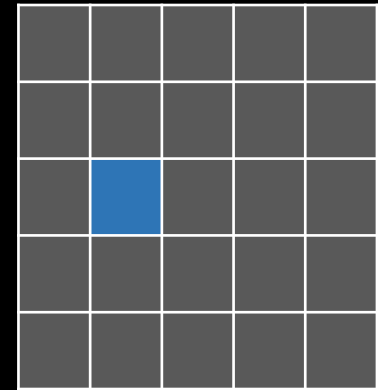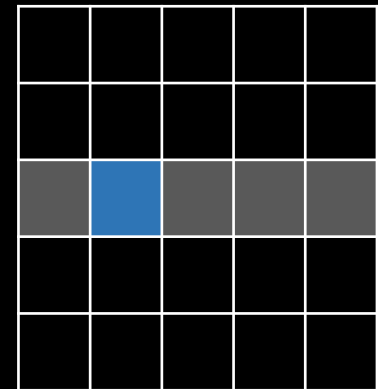# Attempt in Clustering

2016-2-24

Details

- Normalize (flatten) feature vectors
  - Joint probability distribution
  - Conditional probability distribution

$$P_y(i_1, i_2) = \frac{M_{i_1,i_2}^y}{\sum_{i,j} M_{i,j}^y}, \quad P_y(i_2|i_1) = \frac{M_{i_1,i_2}^y}{\sum_j M_{i_1,j}^y}.$$

- Euclidean norm = Frobenious norm
  - a well-defined distance measure

Joint probability distribution

Conditional probability distribution