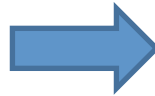
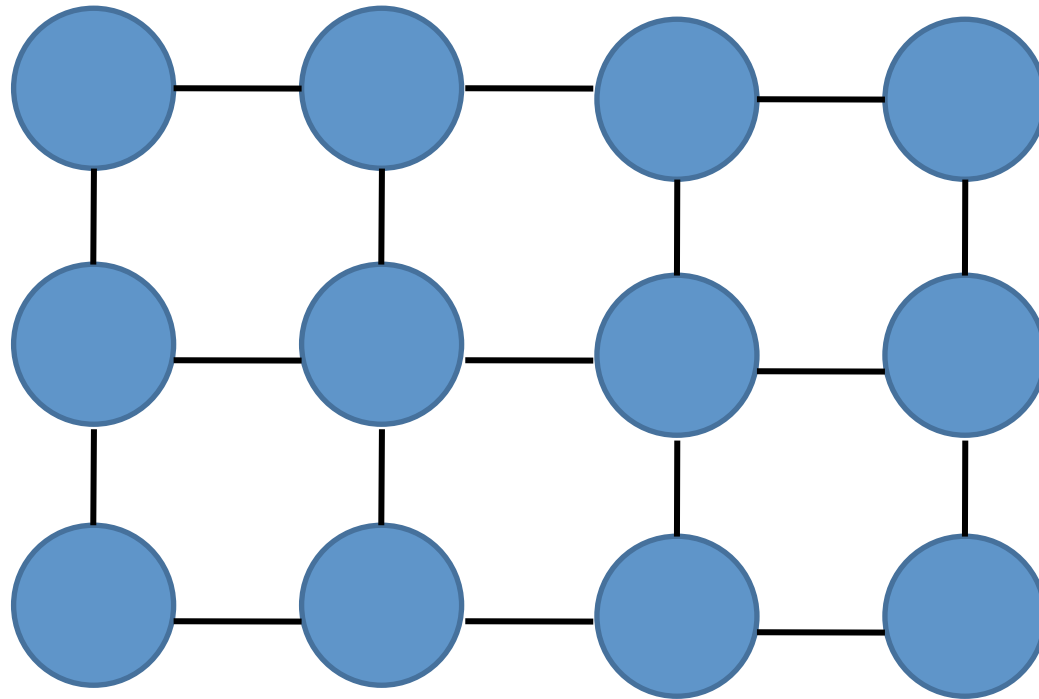


Image Segmentation Using Min-Cut



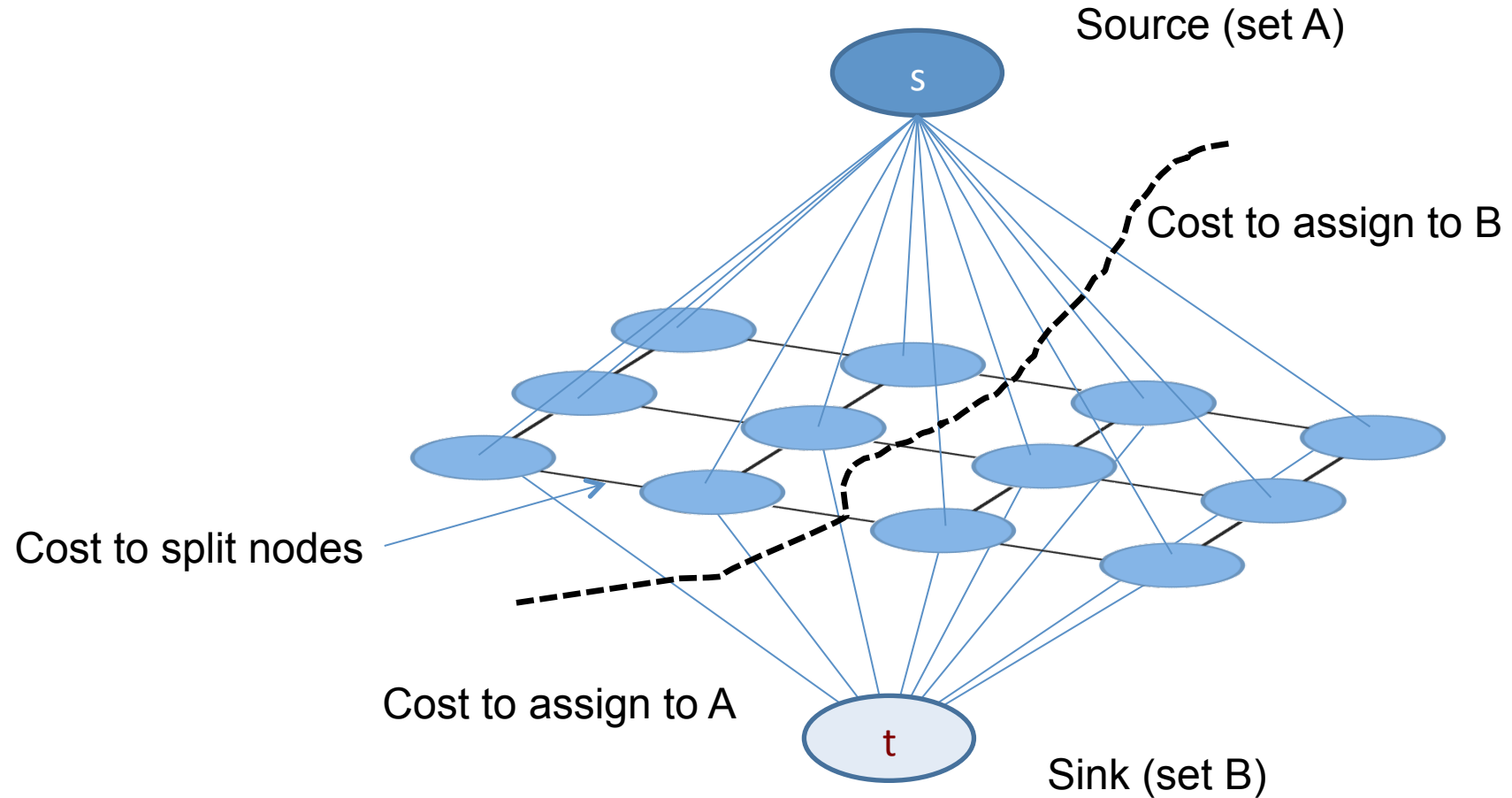
Problem: automatically classify pixels as foreground or background

Graph Representation

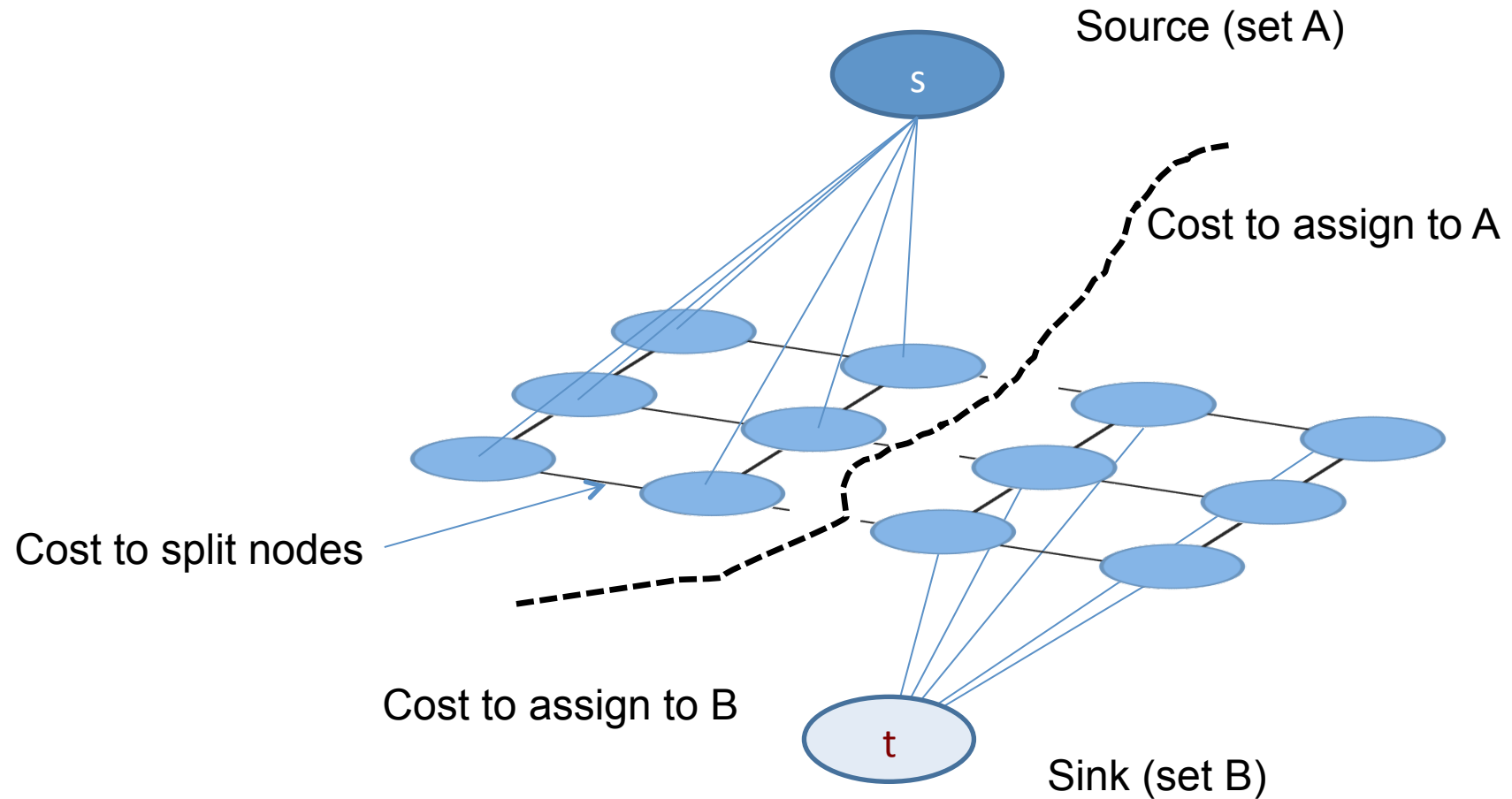


Each pixel is connected to its neighbors in an undirected graph
Goal: split nodes into two sets A and B based on pixel values,
but try to classify neighbors in the same way

Segmentation by Graph Cuts



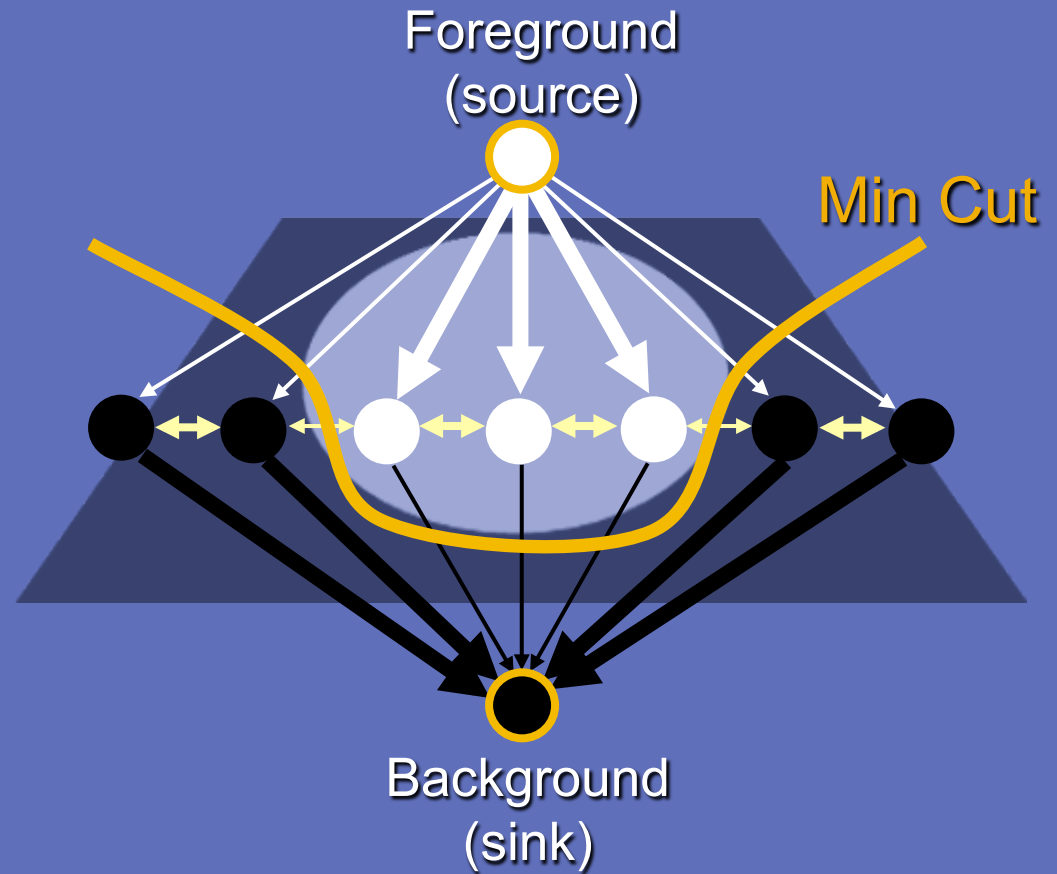
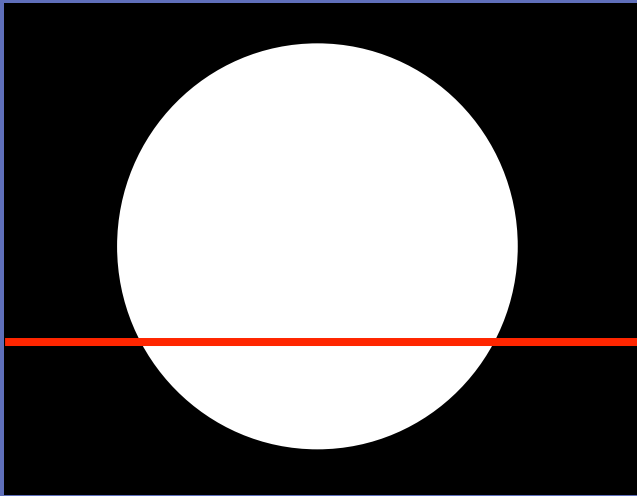
Segmentation by Graph Cuts



Graph cuts

Boykov and Jolly (2001)

Image



Min Cut: Global minimal energy in polynomial time

Demo