Outline
CS376 Computer Vision
Wednesday, Feb 9, 2011

Segmentation and grouping

Review questions on texture and color

Grouping problems in vision

Inspiration from human perception, Gestalt properties

Bottom-up segmentation via clustering

- Mode finding and mean shift:
  - k-means: algorithm definition, pros and cons
    - Examples of feature spaces: color, intensity,...
    - Texton histograms; clustering for feature space quantization
  - Mean-shift: algorithm sketch, pros and cons

- Graph-based:
  - Images as graphs, measuring affinity between nodes
  - Minimum cut
  - Normalized cuts; objective definition, pros and cons

Summary

Reminder: Pset 1 is due Monday 11:56 pm