Midterm is on March 9, in 2 weeks.

Alignment and fitting

- Interactive segmentation examples (follow-up to deformable contours)
  - Interactive forces in a deformable contour
  - Intelligent scissors – boundary snapping with user-given seed point
  - Graph cuts with hard constraints
  - “Grab cut” with iterative foreground refinement

- Feature-based alignment
  - Definition of alignment, place in fitting
  - 2D transformations
    - Parametric transformations
    - Representing with matrices, homogeneous coordinates
  - Affine fit
    - Fitting with least squares given correspondences
    - What are the correspondences?
    - Recognition by alignment
    - Problem: outliers
  - RANSAC
    - Algorithm definition
    - RANSAC for line fitting (example)
    - Pros and cons

Reminder: Pset 2 is due March 2.