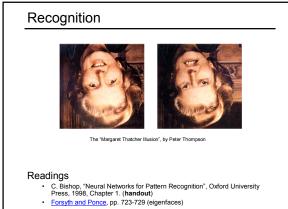
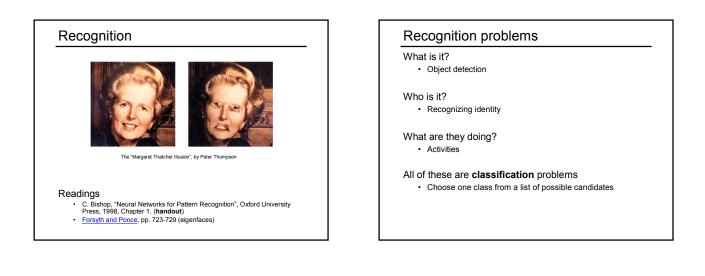
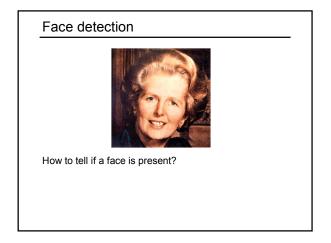
Announcements

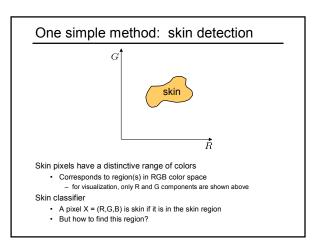
· Artifact due Thursday

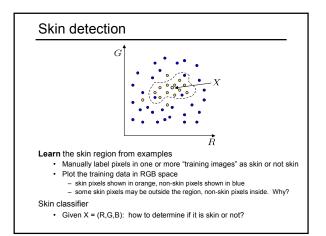
- everything must be in by Friday (regardless of late days) • Final exam: Tuesday, March 19, 2:30-4:20, MGH 228
- comprehensive, but emphasis on material since midterm
 - closed notes
- will review course topics on Friday

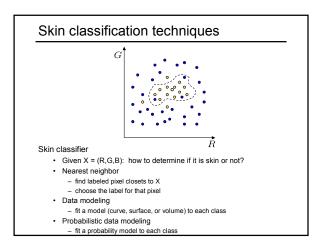


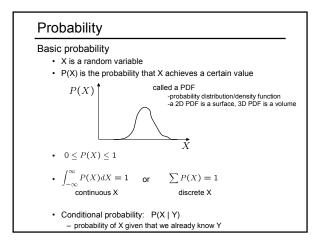


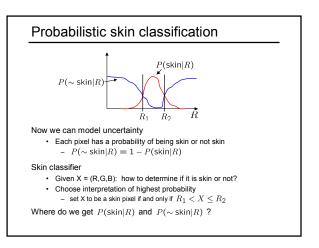


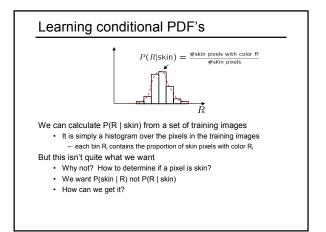


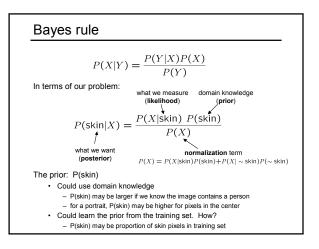


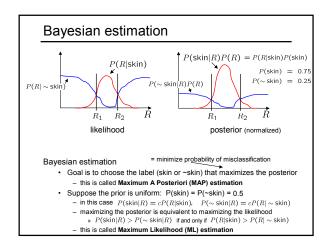


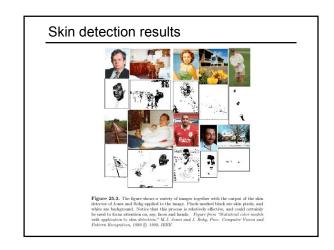


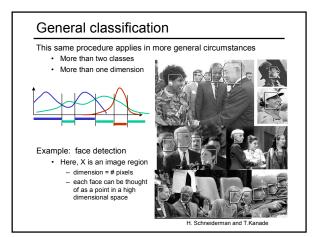


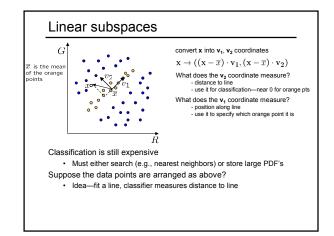


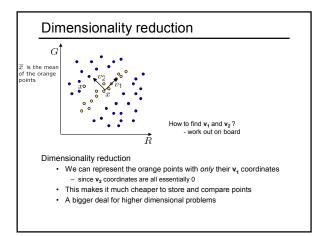


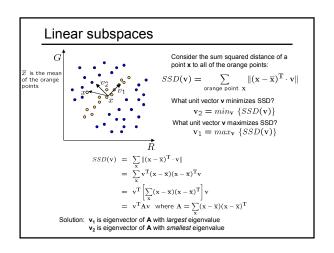


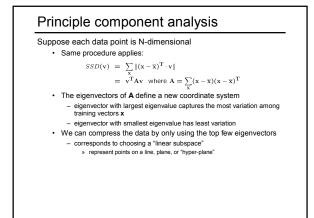


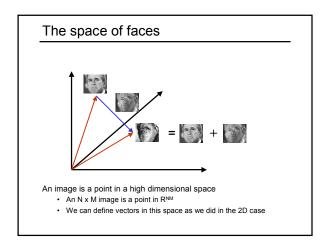


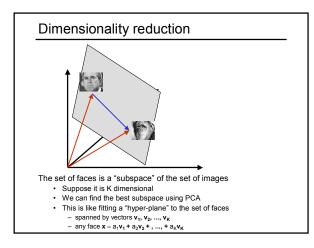


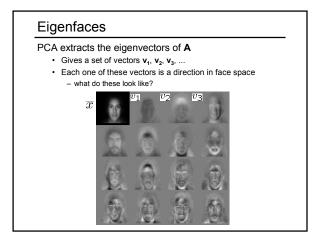


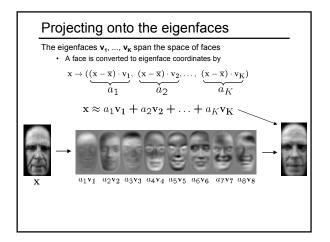


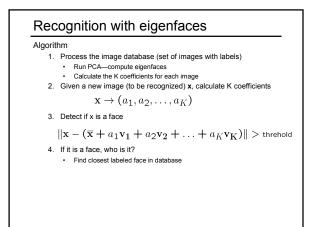












Object recognition

This is just the tip of the iceberg

- · We've talked about using pixel color as a feature
- Many other features can be used:
 - edges
 - motion (e.g., optical flow)object size
 - object si
- Classical object recognition techniques recover 3D information as well
 - given an image and a database of 3D models, determine which model(s) appears in that image
 - often recover 3D pose of the object as well

Summary

Things to take away from this lecture

- Classifiers
- Probabilistic classification
 - decision boundaries
 - learning PDF's from training images
- Bayesian estimation
- Principle component analysis
- Eigenfaces algorithm