

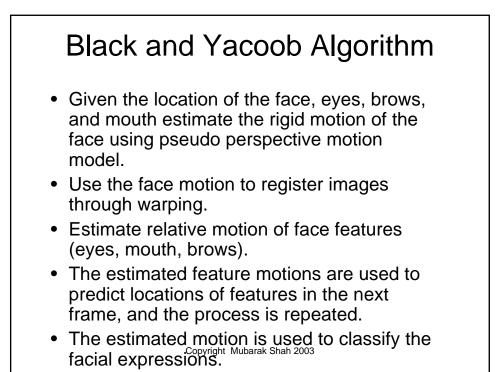
## FACIAL EXPRESSIONS

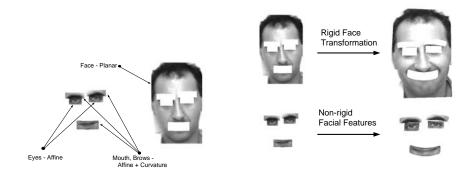




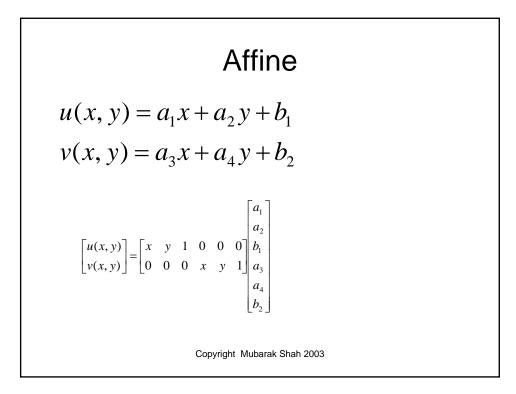
RAISE EYE BROWS SMILE Copyright Mubarak Shah 2003

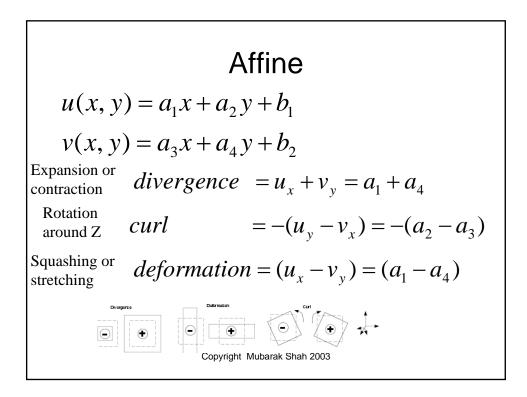


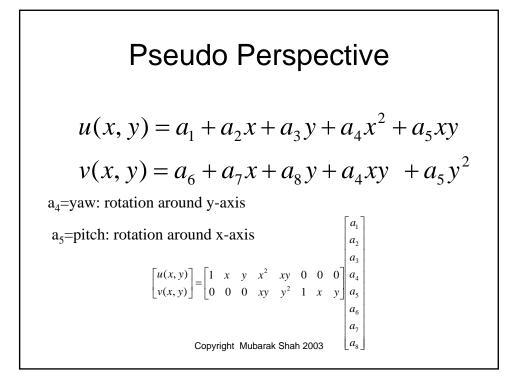


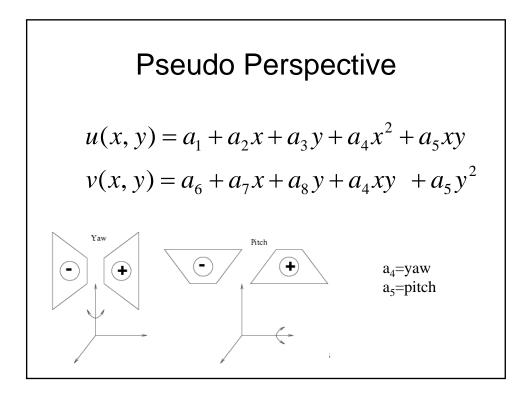


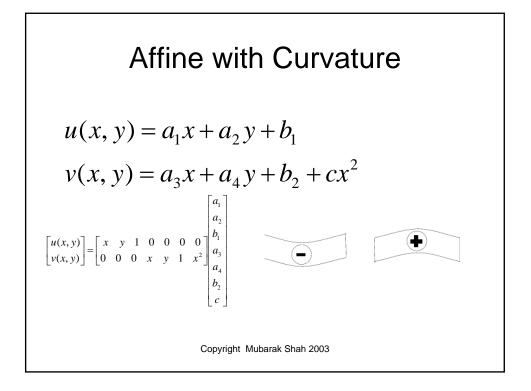
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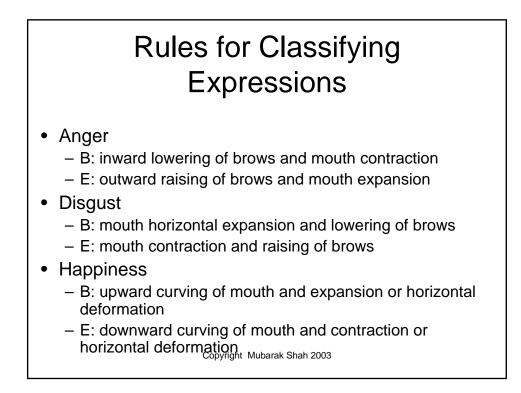






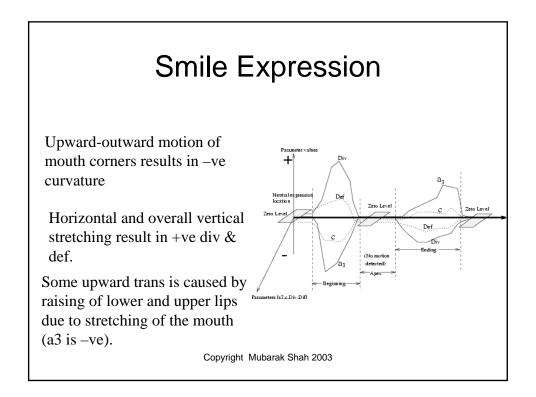


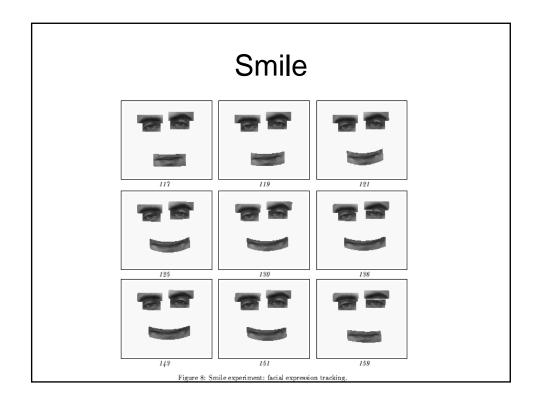


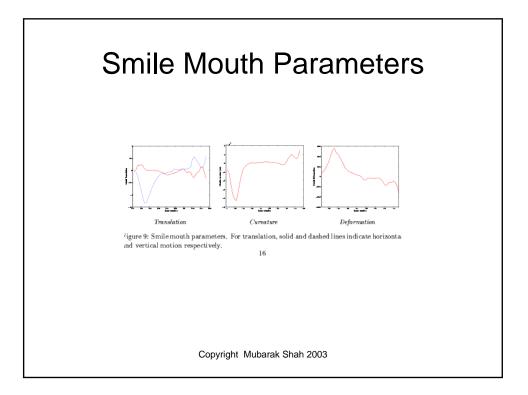


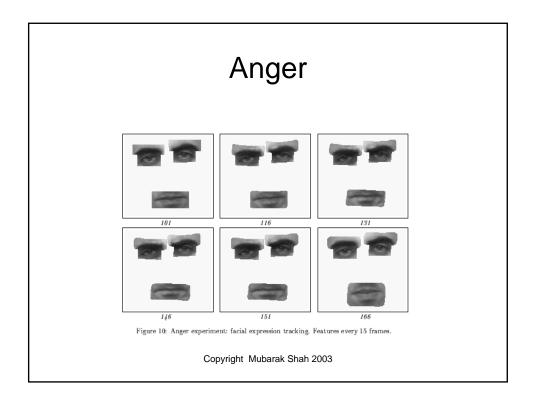
## Rules for Classifying Expressions

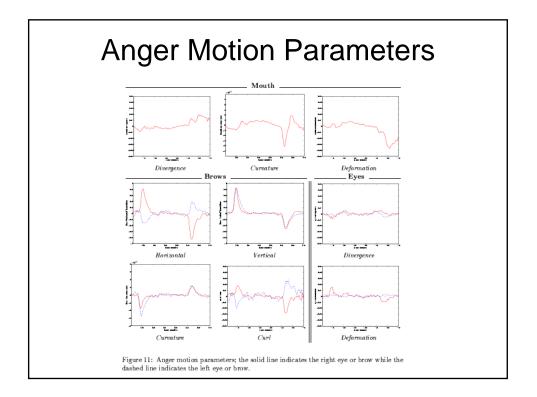
- Surprise
  - B: raising brows and vertical expansion of mouth
  - E: lowering brows and vertical contraction of mouth
- Sadness
  - B: downward curving of mouth and upward-inward motion in the inner parts of brows
  - E: upward curving of mouth and downward-outward motion in inner parts of brows
- Fear
  - B: expansion of mouth and raising-inwards inner parts of brows
  - E: contraction of mouth and lowering inner parts of

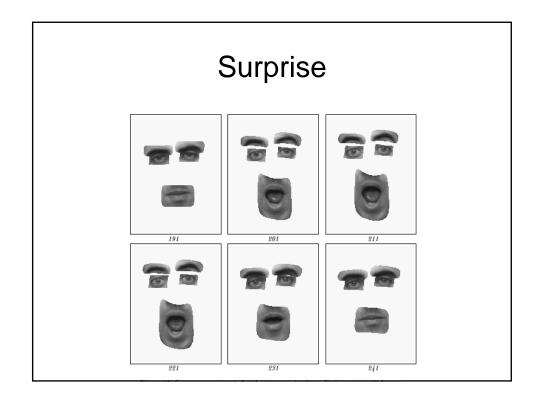


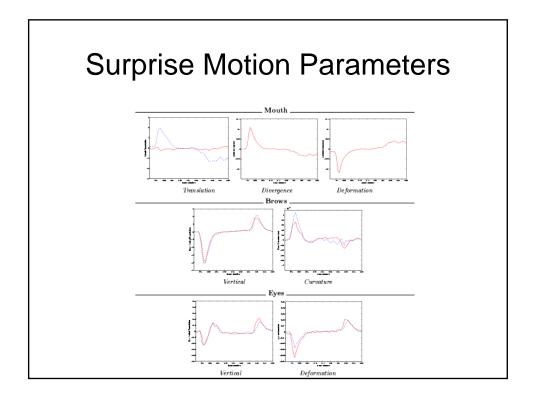


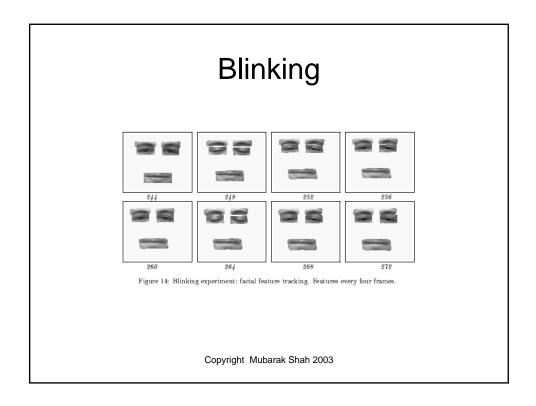


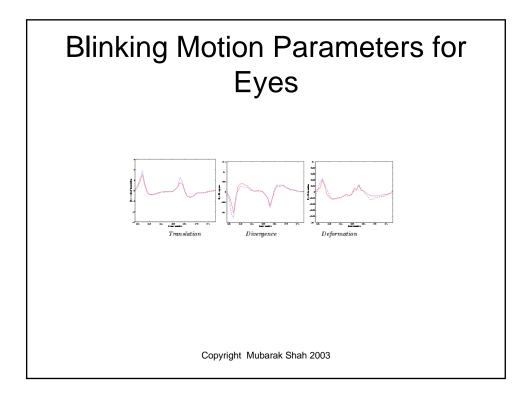


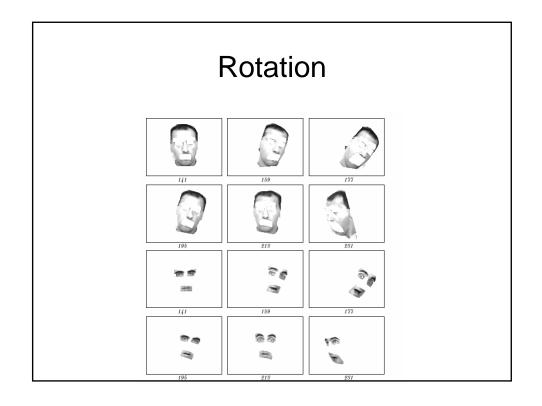


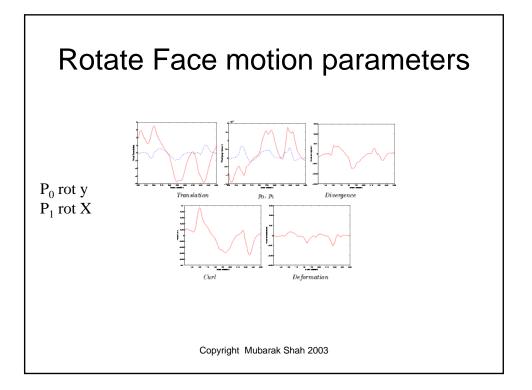


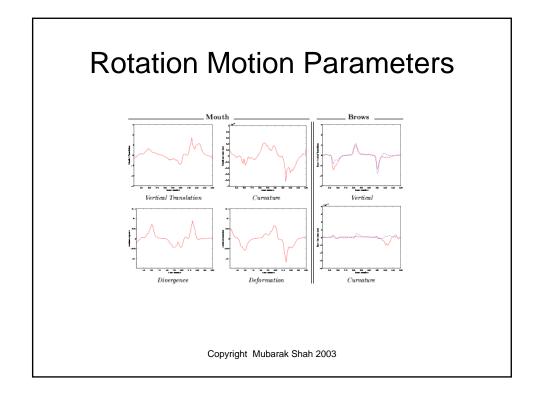


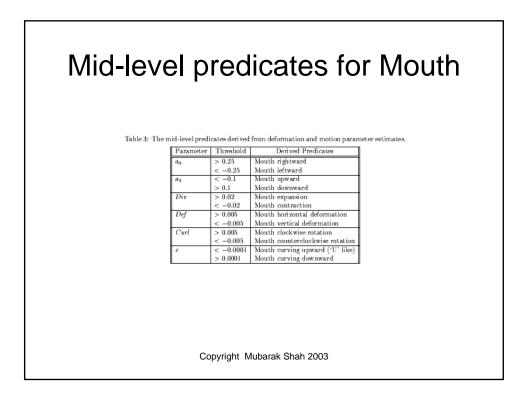


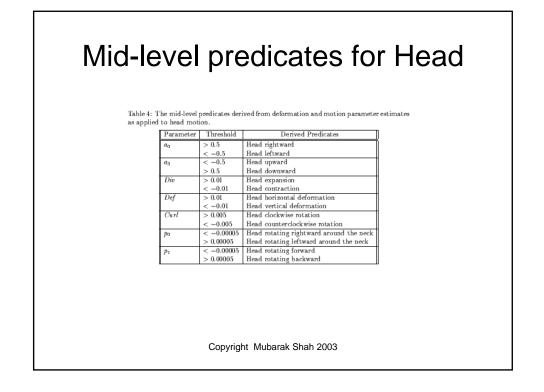


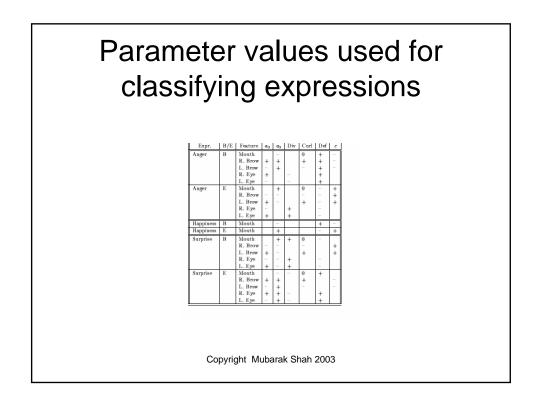


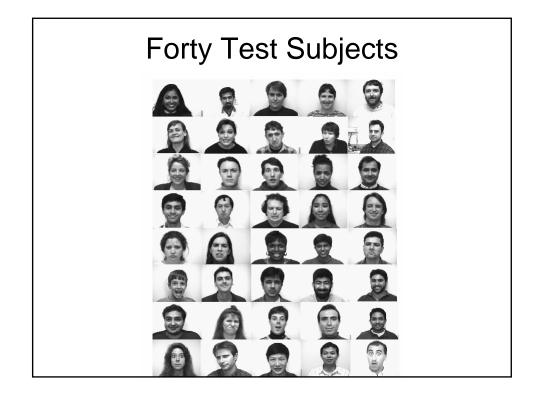






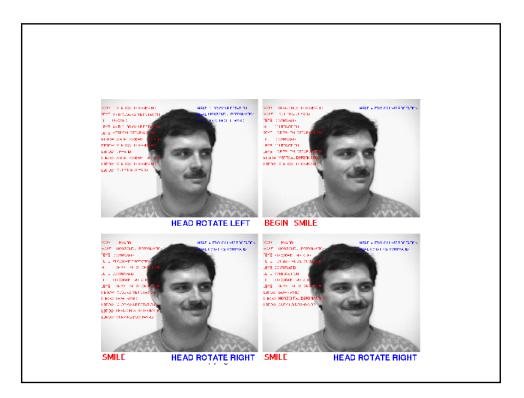


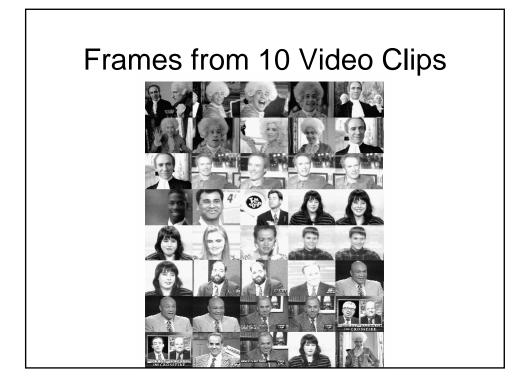




Res	sults
Expression	Rate
Surprise	91%
Happiness	95%
Anger	90%
Disgust	93%
Fear	83%
Sadness	100%







Results		
<b>Expression</b> Surprise Happiness Anger Disgust Fear Sadness	Rate 86% 95% 80% 50% 100% 60%	
http://www.cfar.umd.edu/ftp/TRs/CVL-	Reports-1995/TR3401-Black.ps.gz Iubarak Shah 2003	