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### **PDM** Problems

- Getting same number of points (3 failures on "good" data)
- Getting points in the same positions on smooth curves
- Alignment when shape too extreme

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PDM Performance Discussion

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# What We Have Learned

- Point Distribution Model (PDM) method for representing classes of objects
- Principal Component Analysis (PCA) decomposition for estimating the dominant modes of variation

# PDM Discussion

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#### PDM Performance Discussion

#### Discussion

- Applicable to smooth curves
- Applicable to other data beside points, 3D, ultrasound
- Covariance matrix links correlations between pairs of features. What about triples, ...?
- Can extend to include greylevel variations
- Training samples need not be in order (batch mode)

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