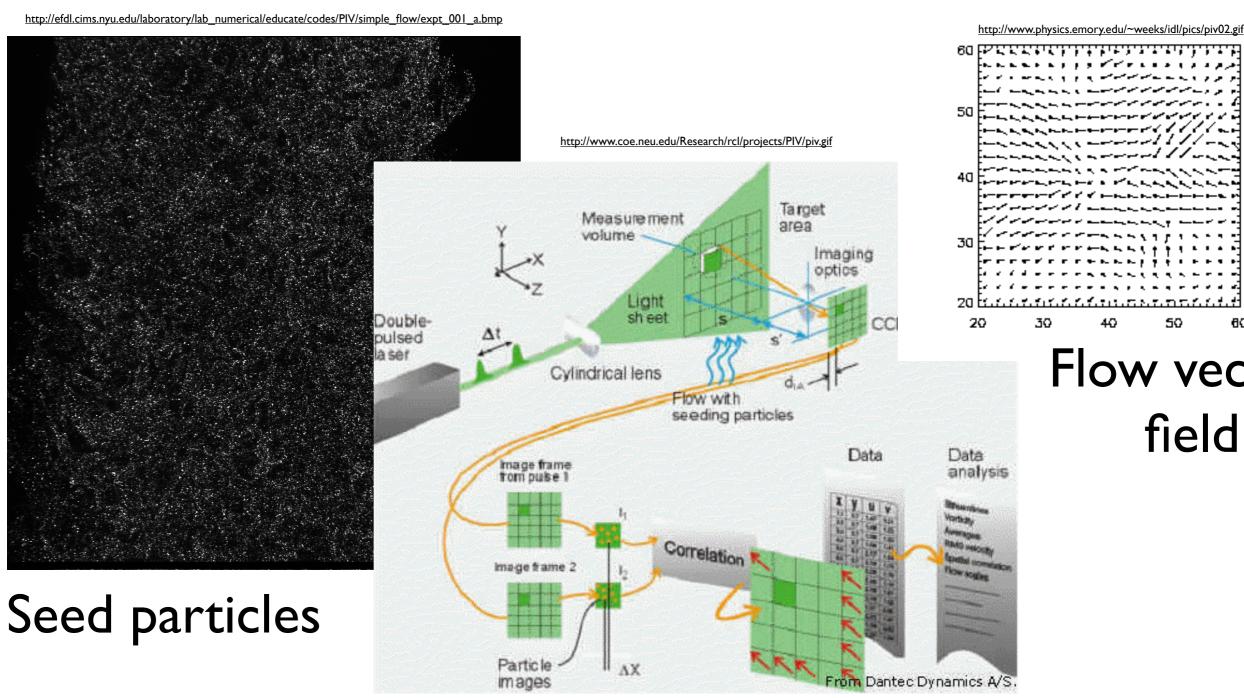
Adaptive Particle Image Velocimitry (PIV)

Robin Deits

Particle Image Velocimitry



Flow vector field

Cross-correlation

Adaptive PIV

- Standard PIV:
 - Interrogation windows spaced evenly across image
- Adaptive PIV:
 - Use seed particle density and previous velocity estimate to control interrogation window size and placement
 - More information in busier regions