



# Visual Simulation

## CAP 6938

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# Today

- Last Lecture
- Feature Tracking
- Structure from Motion
  - Tomasi and Kanade
  - Extensions
- Today
  - Camera Calibration
  - Bundle adjustment

# Camera calibration



- Determine camera parameters from *known* 3D points or calibration object(s)
  1. *internal or intrinsic* parameters such as focal length, optical center, aspect ratio:  
*what kind of camera?*
  2. *external or extrinsic* (pose) parameters:  
*where is the camera?*
  3. How can we do this?

