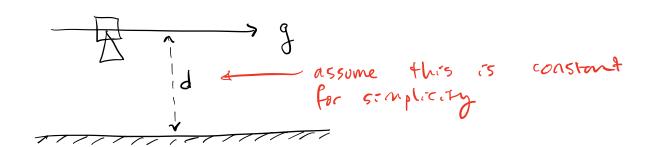
Single Moving Camera example



Dynamics

$$\dot{x} = \begin{bmatrix} a \\ d \end{bmatrix} \\
\dot{x} = \begin{bmatrix} a \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} + \begin{bmatrix} i \\ 0 \end{bmatrix} u$$

$$f_{i}(x) \qquad f_{u}(x)$$

$$\dot{\chi} = \int_{d} (x) + \int_{u} (x) \cdot u$$

System is linear, so we can also write:

$$= \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} X + \begin{bmatrix} 1 \\ 0 \end{bmatrix} u$$

Measurement