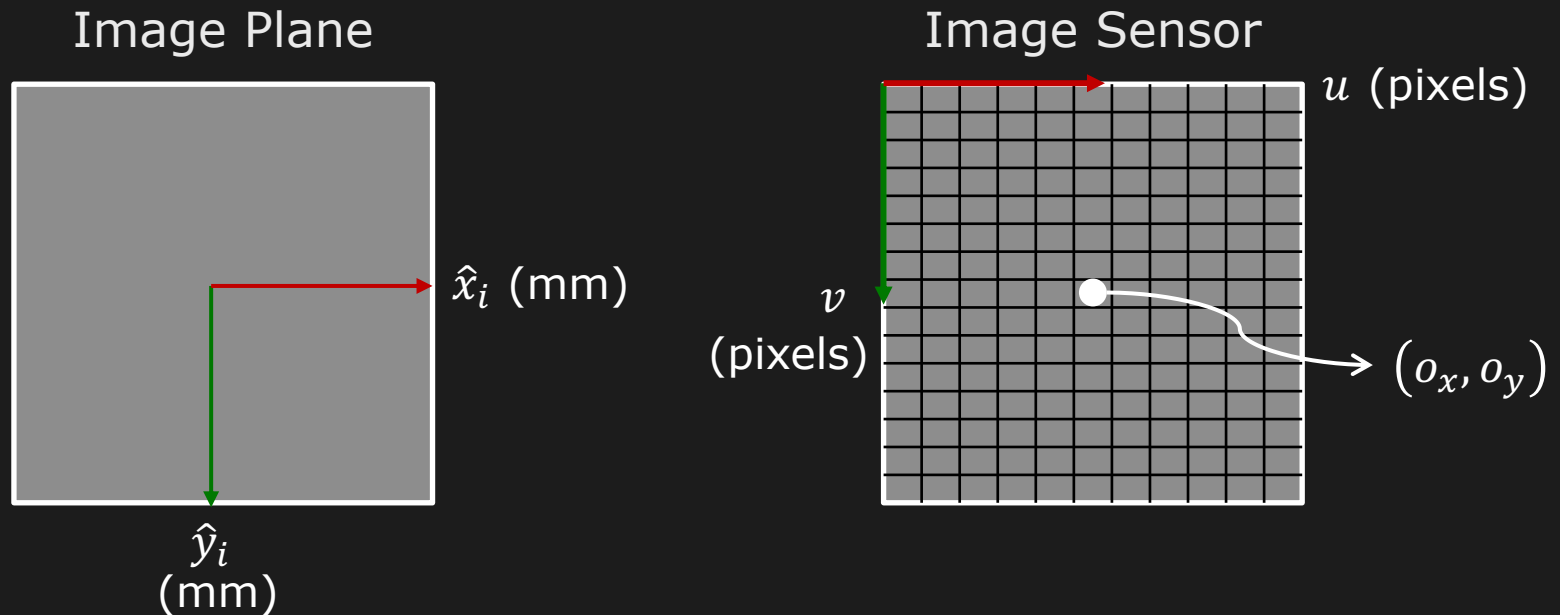


# Image Plane to Image Sensor Mapping



We usually treat the top-left corner of the image sensor as its origin (easier for indexing). If pixel  $(o_x, o_y)$  is the **Principal Point** where the optical axis pierces the sensor, then:

$$u = m_x f \frac{x_c}{z_c} + o_x$$

$$v = m_y f \frac{y_c}{z_c} + o_y$$