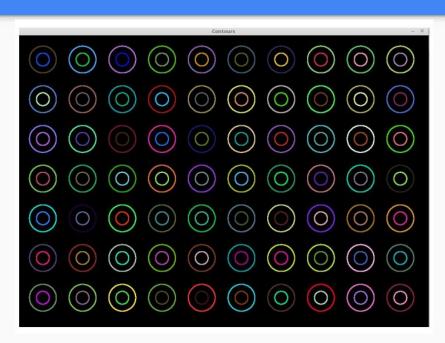
Camera Calibration using OpenCV

Pipeline



Preprocessing



Find Centers: Center of mass

Two options:

Center of mass

Image Moments

$$C_x = \frac{M_{10}}{M_{00}}$$

$$C_y = \frac{M_{01}}{M_{00}}$$



Find Centers: Center of mass

Two options:

Ellipse fitting

$$F(\mathbf{a}, \mathbf{p}) = \mathbf{a} \cdot \mathbf{p} = ax^2 + bxy + cy^2 + dx + ey + f$$

$$x_{center} = 2cd - be/(b^2 - 4ac)$$

$$y_{center} = 2ae - bd/(b^2 - 4ac)$$

Draw lines

