$C_1 \rightarrow (x_1, y_1)$ $C_2(x_2, y_2)$ $C_3(x_3, y_3)$ $C_4(x_4, y_4)$

assume cameras are placed at known coordinates

$\theta_1, \theta_2, \theta_3, \theta_4$

$y - y_i = \tan(\theta_i)(x - x_i) \rightarrow y - y_1 = \tan(\theta_1)(x - x_1)$

$y - y_2 = \tan(\theta_2)(x - x_2)$

$y_1 + \tan(\theta_1)(x - x_1) = y_2 + \tan(\theta_2)(x - x_2)$

$y_1 + \tan(\theta_1)(x - x_1) = y_2 + \tan(\theta_2)(x - x_2)$

$y_1 + \tan(\theta_1)(x - x_1, \tan(\theta_1)) = y_2 + \tan(\theta_2)x - x_2\tan(\theta_2)$

$x(\tan(\theta_1) - \tan(\theta_2)) = y_2 - y_1 + x_1\tan(\theta_1) - x_2\tan(\theta_2)$

$$x = \frac{y_2 - y_1 + x_1\tan(\theta_1) - x_2\tan(\theta_2)}{\tan(\theta_1) - \tan(\theta_2)}$$

$y = y_1 + \tan(\theta_1)(x - x_1)$

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