

















## Sidebar: Fitting Straight Lines to Points In n dimensions, compute the eigenvalues & eigenvectors and take the eigenvector associated with the largest eigenvalue. In 2 dimensions, its simpler: for p points (x,y), a = ∑x<sup>2</sup>, b = ∑xy, c = ∑y<sup>2</sup>

$$\sin 2\phi = \pm \frac{b}{\sqrt{b^2 + (a-c)^2}}$$
$$\cos 2\phi = \pm \frac{a-c}{\sqrt{b^2 + (a-c)^2}}$$



Hough Example (II)	
	Line data
Edge data	