$$\text{distance } = \sqrt{(a_x - b_x)^2 + (a_y - b_y)^2}$$

$$p_1 = (\alpha_1, \delta_1)$$
$$p_2 = (\alpha_2, \delta_2)$$

$$\alpha$$

$$\delta$$

$$\cos(\gamma) = \cos(90^\circ - \delta_1)\cos(90^\circ - \delta_2) + \sin(90^\circ - \delta_1)\sin(90^\circ - \delta_2)\cos(\alpha_1 - \alpha_2)$$

$$\gamma \simeq \sqrt{\left((\alpha_1 - \alpha_2)\cos(\delta_1)\right)^2 + (\delta_1 - \delta_2)^2}$$