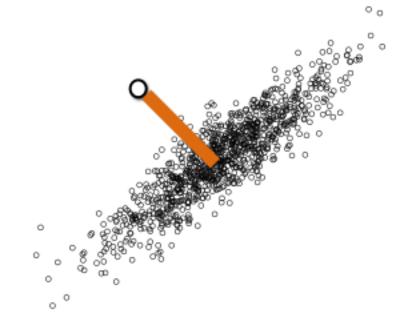
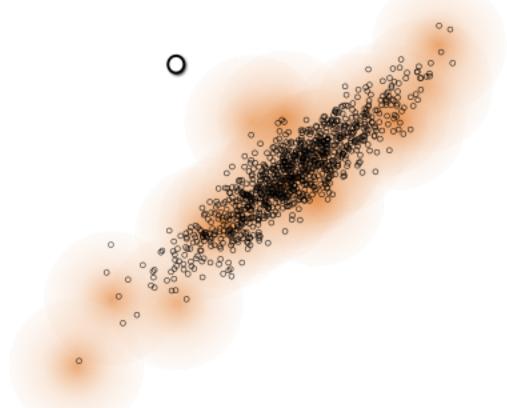
Mahalanobis distance

$$D_M(x_i) = \sqrt{(x_i - \bar{x})^T S^{-1}(x_i - \bar{x})}$$



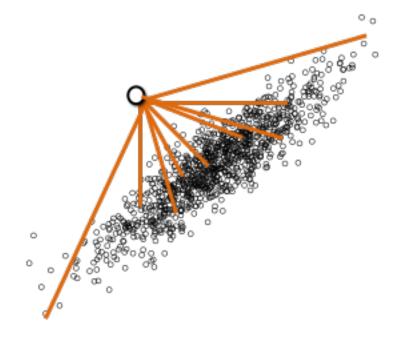
Kernel Density Deviance

$$L(x_i \mid \lambda) = \log\left(\frac{1}{N-1}\sum_{j\neq i}G(x_i \mid x_j, \lambda^2 S)\right)$$
$$D_K(x_i) = -2L(x_i \mid \lambda)$$



Harmonic mean distance

$$D_H(x_i) = N \left[\sum_{j \neq i} \left[(x_i - x_j) S^{-1} (x_i - x_j) \right]^{-1/2} \right]^{-1}$$



Nearest neighbor distance

$$D_N(x_i) = \min_{j \neq i} \left(\sqrt{(x_i - x_j)S^{-1}(x_i - x_j)} \right)$$

