Comparing Two Distributions

- Euclidean Distance

$$D(h, h') = \sqrt{\sum_{i=0}^{n} (h(i) - h'(i))^2}$$

- Chi-Square Distance

$$\chi^2(h, h') = \frac{1}{2} \sum_{i=1}^{N} \frac{(h(i) - h'(i))^2}{h(i) + h'(i)}$$

Comparing Two Distributions

- Histogram Intersection (Histogram needs to be normalised)

$$\text{int}(h, h') = 1 - \sum_{i=1}^{N} \min\left(h(i), h'(i)\right)$$

Cars found by color histogram matching using chi-squared