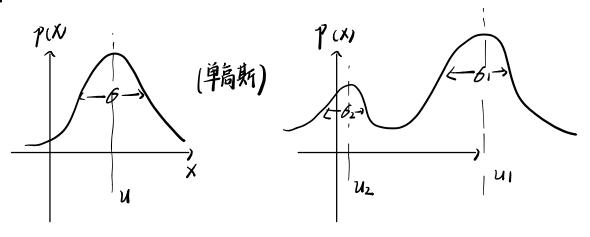
混合局斯模型 (Gaussian Mixture Model) GMM

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$$\begin{array}{ll}
D \\
V(X|C) = \sum_{k=1}^{K} \mathbb{L}_{k} N(X) U_{k}, \Sigma_{k} \\
dx| dx| dx| dxd
\end{array}$$

$$\begin{array}{ll}
N(X|U_{k}, \Sigma_{k}) = \frac{1}{\sqrt{2\pi}} \exp\left\{-\frac{1}{2}(X-U_{k})\Sigma_{k}^{T}(X-U_{k})\right\} \\
\frac{K}{K-1} \mathbb{L}_{k-1} \mathbb{L}_{k-1}$$



$$(2) E\left(\int Lk, uk, z_k\right) = \sum_{i=1}^{N} \ln p(x_i|c)$$

$$= \sum_{i=1}^{N} \ln \left[\sum_{k=1}^{N} Lk, \frac{1}{(2L)^{d}|z_k|} \exp\left[-\frac{1}{2}(x_i - u_k)z_k^{T}(x_i - u_k)\right]\right]$$