

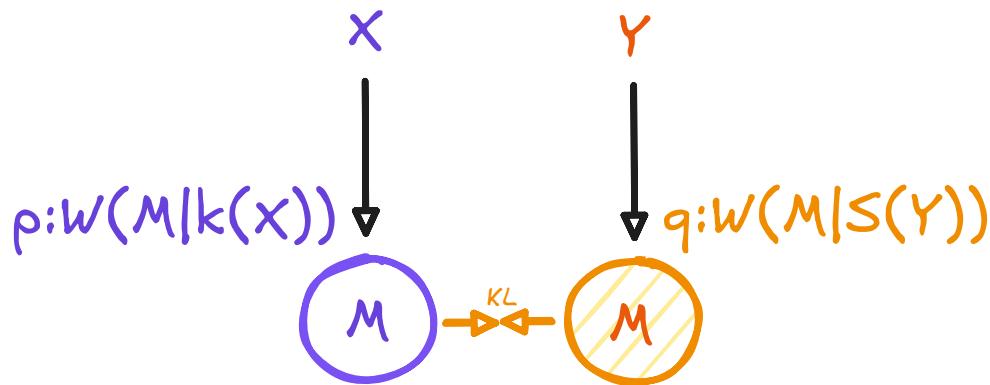
ProbDR

Likelihood View

$$\begin{aligned} S &\sim \text{Wishart}(k) \rightarrow S \sim \text{Wishart}^{(k)} \\ \Gamma &\sim \text{Wishart}(k^{-1}) \rightarrow \end{aligned}$$

{-13}

Variational View



The Specifics

algo	S / Γ	cov
dp-PCA	lin	$S: YY^T/d$
dp-MCA	non-lin	$\Gamma: (YY^T/d)^{-1}$
RndPrj	lin	$S: YZZY^T/k + vI$
Proj	non-lin	$S: \Phi(Y)\Phi(Y)^T + vI$
GPLVM	lin	$S: YY^T/d$
KPCA	non-lin	$S: K(Y, Y') + vI$
Isomap	non-lin	$S: f(L)$
LapEign	non-lin	$\Gamma: L$
LLE	non-lin	$\Gamma: \underset{L}{\operatorname{argmax}} I(L, Y)$
C(t-S)NE	non-lin	$\Gamma: L$