$$\frac{1}{k} = \frac{1}{k} \left| \frac{1}{k} \right| = \frac{1}{k} \sum_{k=1}^{k} \frac{1}{k} \left( \frac{x_k}{x_k} \right) = \frac{$$

$$= -\sum_{k=1}^{N} p(x_k) \log (p(x_k)) = E[-\log(p(x_k))] \left( \text{bit, nat, hastey} \right)$$

of Entropy tong this

$$= \mathbb{E}\left[-\log\left(p(x_{k},y_{k})\right)\right](x_{11}y_{1})\in(X,Y)$$

+ Entropy có tiên fing phân

$$H(X|J=J_A) = E[I(x_1|Y=J_A)] \times_{k \in X} |J=J_A|$$

$$H(J|X=x_k) = E[J(y_1|X=x_k)]y_1, \in Y|X=x_k$$

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> NY. 1 > NX. 14) log (p(x/y1))		
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$T(X,Y) = \mathbb{E}\left[I(x_{k},y_{k})\right] = \sum_{x_{k} \in X} \mathbb{E}\left[I(x_{k},y_{k})\right]$	U(FBF9/	
= D(p(xx;yn)    p(xx)p(yn))	10. 11. //4	
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$D(p  q) = \sum p(x_k) \log \frac{p(x_k)}{q(x_k)}$		
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