$$D_{KL}(p||q) = E_{p}[\log^{p}/q]$$

$$= \sum p(x) \log \frac{p(x)}{q(x)}$$

$$H(p,q) = H(p) + D_{KL}(p||q)$$

$$-\sum p(x) \log q(x) = -\sum p(x) \log p(x) + \sum p(x) \log \frac{p(x)}{q(x)}$$

$$= -\sum p(x) \log p(x) + \sum p(x) \log p(x)$$

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