

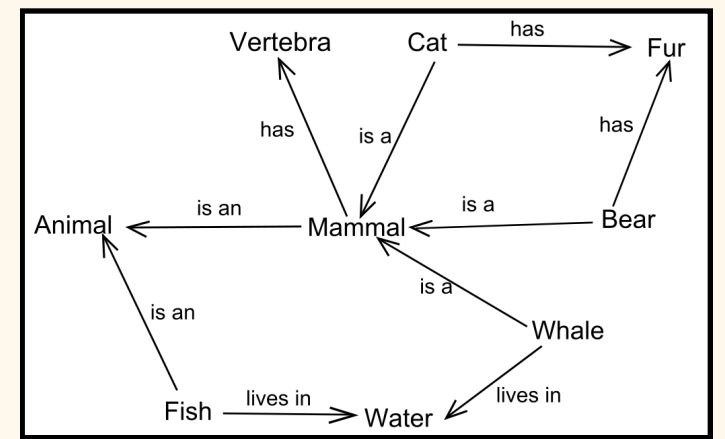
A Generative Model of Words and Relationships from Multiple Sources

$$\mathcal{E}(S, R, T|\Theta) = -\frac{\mathbf{v}_T \cdot G_R \mathbf{c}_S}{\|\mathbf{v}_T\| \|G_R \mathbf{c}_S\|}$$

$$P(S, R, T|\Theta) = \frac{1}{Z(\Theta)} e^{-\mathcal{E}(S, R, T|\Theta)}$$

$$P(R|s, t; \Theta) = \frac{e^{-\mathcal{E}(s, R, t|\Theta)}}{\sum_{r'} e^{-\mathcal{E}(s, r', t|\Theta)}}$$

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nt coastline dates back to abo
of "a clockwork orange", itse
erimental mix of hip hop, liturg
e three other smaller financial
n amsterdam. the ice hockey t
try of transport, but he was st



(clockwork, **sentence**, orange)
(cat, HAS, fur)
(smaller, **sentence**, financial)
(cat, IS A, mammal)
(ice, **sentence**, hockey)

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