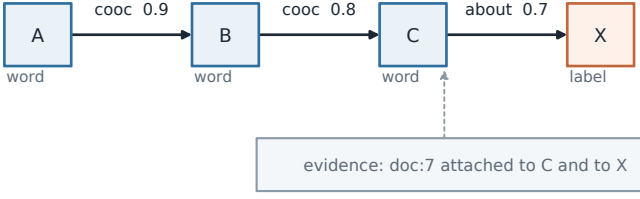
worked path: one label conclusion reached in three hops; word nodes are traversed but never returned as conclusions



path score

$\gamma^h \cdot e_1 e_2 \cdots e_h$

$0.8^3 \cdot 0.9 \cdot 0.8 \cdot 0.7$

= 0.258048

Noisy-OR over paths

$P = 1 - (1 - p_1)(1 - p_2)\cdots$

one path: $P = 0.258048$

beam search

hops 3, beam 16, branch 8

scope/cycle prune

gate 0.6, min_edge 0.05

evidence gate

intersection, union fallback, top_k 3

calibrate/abstain

soften(p); abstain if best < 0.25

verifier rerank

$c' = c^{\lambda} v^{1-\lambda}$

$\lambda = 0.7,\ v = 1 \ \Rightarrow\ 0.3874$