

COLORE (1): Relative Interpretations

Work in progress: modeling COLORE's metatheoretical relationships (e.g. one ontology has a relative interpretation in another ontology)

Example (approximate_point ↔ interval_meeting)

- ① in COLORE style (with the mapping in a theory of its own):
 $\text{delta} = \forall x,y . \text{finer}(x,y) \equiv \text{starts}(x,y) \vee \text{during}(x,y) \vee \text{finishes}(x,y)$
 $\text{interval_meeting} \cup \text{delta} \equiv \text{approximate_point}$
- ② in DOL: **interpretation** i : approximate_point **to** { interval_meeting **then** %def delta }
- ③ alternative, possibly more straightforward syntax? (direct interpretation, without a "mapping theory")

interpretation i : approximate_point **to** interval_meeting =
 $\text{finer}(x,y) \mapsto \text{starts}(x,y) \vee \text{during}(x,y) \vee \text{finishes}(x,y)$
end