

$$\mathbf{d} \otimes \mathbf{e} : (\mathbf{P} \times \mathbf{R})^{\text{op}} \times (\mathbf{Q} \times \mathbf{S}) \rightarrow_{\text{Pos}} \mathbf{Bool},$$

$$\langle \langle p, r \rangle^*, \langle q, s \rangle \rangle \mapsto \mathbf{d}(p^*, q) \wedge \mathbf{e}(r^*, s).$$