

$$\mathbf{d} : \mathbf{F}^{\text{op}} \times \mathbf{R} \xrightarrow{\text{Pos}} \mathbf{Bool}$$

$$\langle f^*, r \rangle \mapsto \exists i \in \mathbf{I} : (f \leq_{\mathbf{F}} \text{prov}(i)) \wedge (\text{req}(i) \leq_{\mathbf{R}} r).$$