

## causally-op-related\_wf<sup>11,40</sup>

$\forall es:ES, P, Q:(E \rightarrow \mathbb{P}), T, T':Type, R:(T \rightarrow T' \rightarrow \mathbb{P}).$   
 $(\forall e:E. P(e) \Rightarrow (\text{valtype}(e) \subseteq_r T))$   
 $\Rightarrow (\forall e:E. Q(e) \Rightarrow (\text{valtype}(e) \subseteq_r T'))$   
 $\Rightarrow (e.P(e) \rightarrow_{\text{op}} e.Q(e) \text{ with } R \in \mathbb{P})$