

**preserved\_by\_symmetric**<sup>4,23</sup>

$\forall T:\text{Type}, P:(T \rightarrow \text{Prop}), R:(T \rightarrow T \rightarrow \text{Prop}).$   
 $(\text{Sym } x,y:T. x R y) \Rightarrow R \text{ preserves } P \Rightarrow R^{-1} \text{ preserves } P$