

## **all\_functionality\_wrt\_iff**<sup>13,42</sup>

$\forall S, T:\text{Type}, P, Q:(S \rightarrow \mathbb{P})$ .

$$(S = T) \Rightarrow (\forall x:S. P(x) \iff Q(x)) \Rightarrow ((\forall x:S. P(x)) \iff (\forall y:T. Q(y)))$$