

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

$\forall T_1, T_2:\text{Type}, r_1:(T_1 \rightarrow T_1 \rightarrow \mathbb{P}), r_2:(T_2 \rightarrow T_2 \rightarrow \mathbb{P}).$

$(T_1 = T_2)$

$\Rightarrow (\forall x, y:T_1. r_1(x,y) \iff r_2(x,y))$

$\Rightarrow (\text{WellFnd}\{i\}(T_1;x,y.r_1(x,y)) \iff \text{WellFnd}\{i\}(T_2;x,y.r_2(x,y)))$