

## strict-fun-connected-induction<sup>11,40</sup>

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

$(\forall x, y, z:T. (x = f(y)) \Rightarrow (\neg(x = y)) \Rightarrow y \text{ is } f^*(z) \Rightarrow (R(y,z) \vee (y = z)) \Rightarrow R(x,z))$   
 $\Rightarrow \{\forall x, y:T. x = f^+(y) \Rightarrow R(x,y)\}$