

# $T_0$ -, $T_1$ - and $T_2$ -separable functors

A functor  $f$  is  $T_1$ -separable when

$$\forall \alpha \in \text{Src } f, \beta \in \text{Dst } f: (\alpha \neq \beta \Rightarrow \neg(\{\alpha\} [f]^* \{\beta\})).$$

An endofunctor (a functor with the same source and destination) is:

1.  $T_0$ -separable when  $f \sqcap f^{-1}$  is  $T_1$ -separable.
2.  $T_2$ -separable when  $f^{-1} \circ f$  is  $T_1$ -separable.