

Definition (Kleisli morphisms). Let $\langle M, \text{un}, \text{mu} \rangle$ be a monad on a category \mathbf{C} , and let $X, Y \in \text{Ob}_{\mathbf{C}}$. A *Kleisli morphism* $X \rightarrow Y$ is morphism of \mathbf{C} of the form $X \rightarrow MY$.