

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