

## Definition (Kleisli morphisms)

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