

**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  $X \rightarrow MY$ .