

$$\begin{array}{ccc}
 \text{Hom}_{\mathbf{C}}(X; Y) \otimes (\text{Hom}_{\mathbf{C}}(Y; Z) \otimes \text{Hom}_{\mathbf{C}}(Z; U)) & \xrightarrow{\text{as}} & (\text{Hom}_{\mathbf{C}}(X; Y) \otimes \text{Hom}_{\mathbf{C}}(Y; Z)) \otimes \text{Hom}_{\mathbf{C}}(Z; U) \\
 \text{id}_{\mathbf{C}} \otimes m_{Y, Z, U} \downarrow & & \downarrow m_{X, Y, Z} \otimes \text{id}_{\mathbf{C}} \\
 \text{Hom}_{\mathbf{C}}(X; Y) \otimes \text{Hom}_{\mathbf{C}}(Y; U) & \xrightarrow{m_{X, Y, U}} & \text{Hom}_{\mathbf{C}}(X; U) \xleftarrow{m_{X, Z, U}} \text{Hom}_{\mathbf{C}}(X; Z) \otimes (\text{Hom}_{\mathbf{C}}(Z; U))
 \end{array}$$