Using array

Simple commutative diagrams can be constructed very easily as arrays, but the results are ugly:

The quality can be improved a bit by using various tricks:

$$\begin{array}{cccc} A & \xrightarrow{\text{label}} & B & \xleftarrow{\text{label}} & C \\ & \searrow & & \downarrow \alpha & \swarrow & \\ & & D & & \end{array}$$

 $\label{label}. $$ \operatorname{array}{cccc} $$ A &\xrightarrow{\text{label}}&B&\xleftarrow{\text{label}}&C\\ &\xrightarrow{\text{label}}&C\\ &\xrightarr$

However, there is not much point since there are better alternatives.

This is part of: Guide to Commutative Diagrams, www.jmilne.org/not/CDGuide.html September 25, 2010