

Objects  $(C, f):$

$$\begin{array}{c}
 A \\
 \downarrow f \\
 C
 \end{array}$$

Morphisms  $h : (C, f) \longrightarrow (C', f')$  are given by  $h : C \longrightarrow C'$  such that

$$\begin{array}{ccc}
 & A & \\
 f \swarrow & & \searrow f' \\
 C & \xrightarrow{\quad h \quad} & C'
 \end{array}$$