

$$\begin{array}{ccc}
 \mathbf{P}_1 & \xrightarrow[\mathbf{NRel}]{f_1} & \mathbf{S}_1 \\
 f \downarrow \mathbf{NSet} & & \mathbf{NSet} \uparrow g \\
 \mathbf{P}_2 & \xrightarrow[f_2]{\mathbf{NRel}} & \mathbf{S}_2
 \end{array}$$