

E8 $\text{epi} \rightarrow \text{surj}$

$$e: A \rightarrow B$$

$$f, g: B \rightarrow C$$

$$f \circ e = g \circ e$$

$$C: B + B / \sim$$

$$\text{incl } b \sim \text{inr } b' \Leftrightarrow \exists a. b = b' = e(a)$$

$$\begin{array}{ccc} A & \xrightarrow{e} & B \\ \downarrow e & & \downarrow \text{incl} \\ B & \xrightarrow{\text{inr}} & C \end{array}$$

$$\begin{aligned} [b] &= [b'] \\ \rightarrow b &\sim b' \end{aligned}$$

$$\Rightarrow [b] = [b']$$

$$\begin{array}{c} \updownarrow \\ \text{incl } b \sim \text{inr } b' \\ \updownarrow \end{array}$$

flexible

$$\exists a. b \neq p(a)$$