

# Chiusura riflessiva

leo

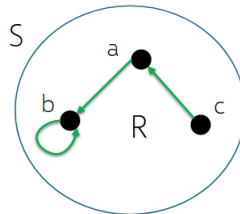
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Data una relazione  $R \subseteq S$ . La chiusura riflessiva di  $R$  è la più piccola relazione riflessiva  $R'$  su  $S$  che contiene  $R$ .

$$R' = R \cup I_S \quad R \subseteq R' \quad I_S = \{\langle x, x \rangle | x \in S\}$$

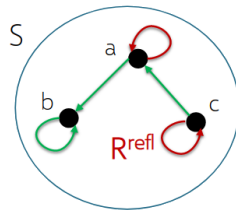
## 1 Esempio

$$S = \{a, b, c\}, R \subseteq S^2$$
$$R = \{\langle a, b \rangle, \langle b, b \rangle, \langle c, a \rangle\}$$



R	a	b	c
a	0	1	0
b	0	1	0
c	1	0	0

$$R' = \{\langle a, a \rangle, \langle a, b \rangle, \langle b, b \rangle, \langle c, a \rangle, \langle c, c \rangle\}$$



$R^{\text{refl}}$	a	b	c
a	1	1	0
b	0	1	0
c	1	0	1