

Zu Folie 318

$$\textcircled{1} \text{ DL: } C_1 \equiv A \sqcap B$$

W3:  $C_1$  is the intersection of  $(A \sqcap B)$

$$\text{FOL: } \forall x (C_1(x) \leftrightarrow A(x) \wedge B(x))$$

$$\textcircled{2} \text{ DL: } C_2 \equiv A$$

$\stackrel{\text{Def.}}{=}$

$$C_2 \sqsubseteq B$$

$$\text{FOL: } \forall x : (C_2(x) \rightarrow A(x) \wedge C_2(x) \rightarrow B(x))$$

$\Rightarrow$

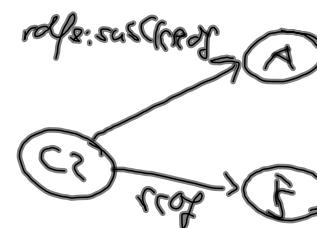
$\Rightarrow$   $x$  kann  $A$  geben,  $\text{so def}$

$$A(x)$$

$$B(x)$$

$$\xrightarrow{\text{A und } B} C_1(x)$$

$$\text{aber und } C_2(x)$$



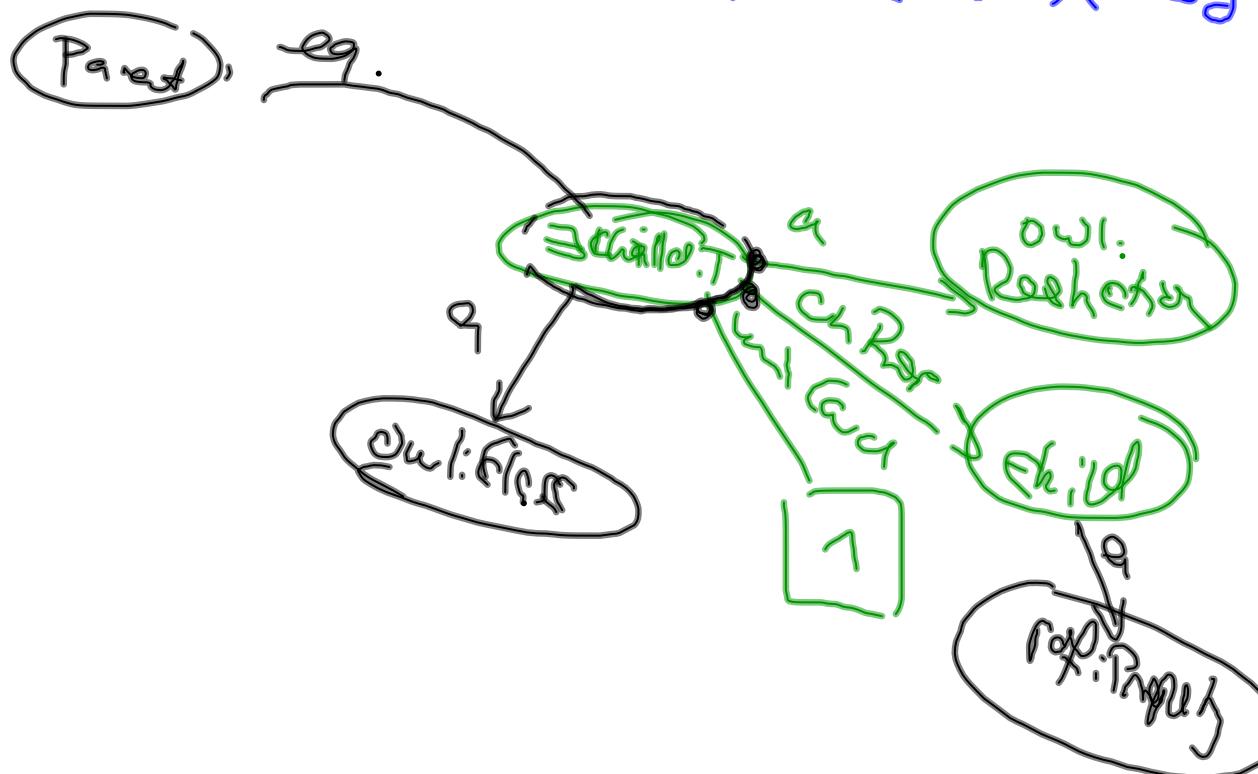
$\text{Parent} \equiv$

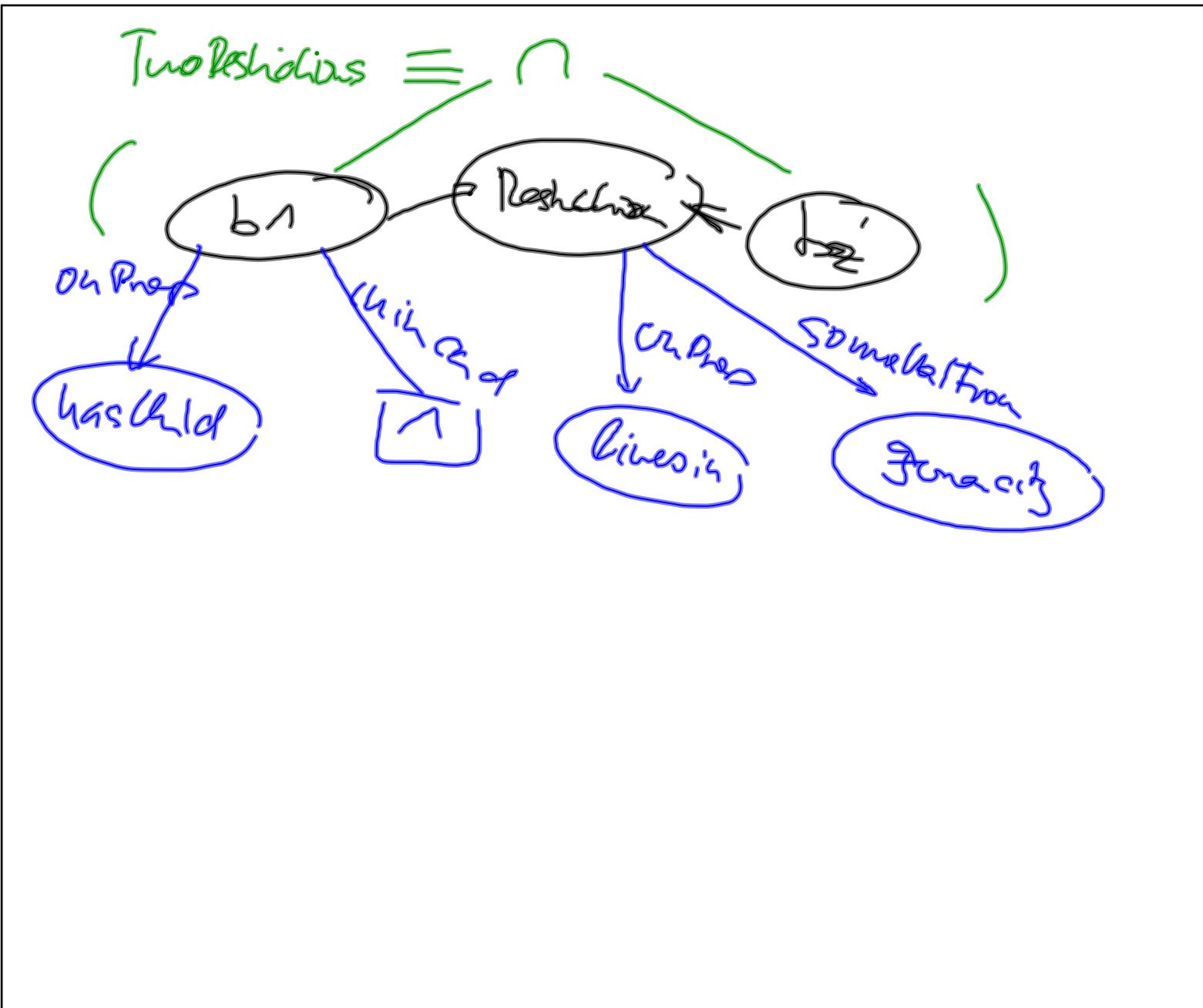
DL:  $\text{Person} \sqcap \exists \text{child. T}$

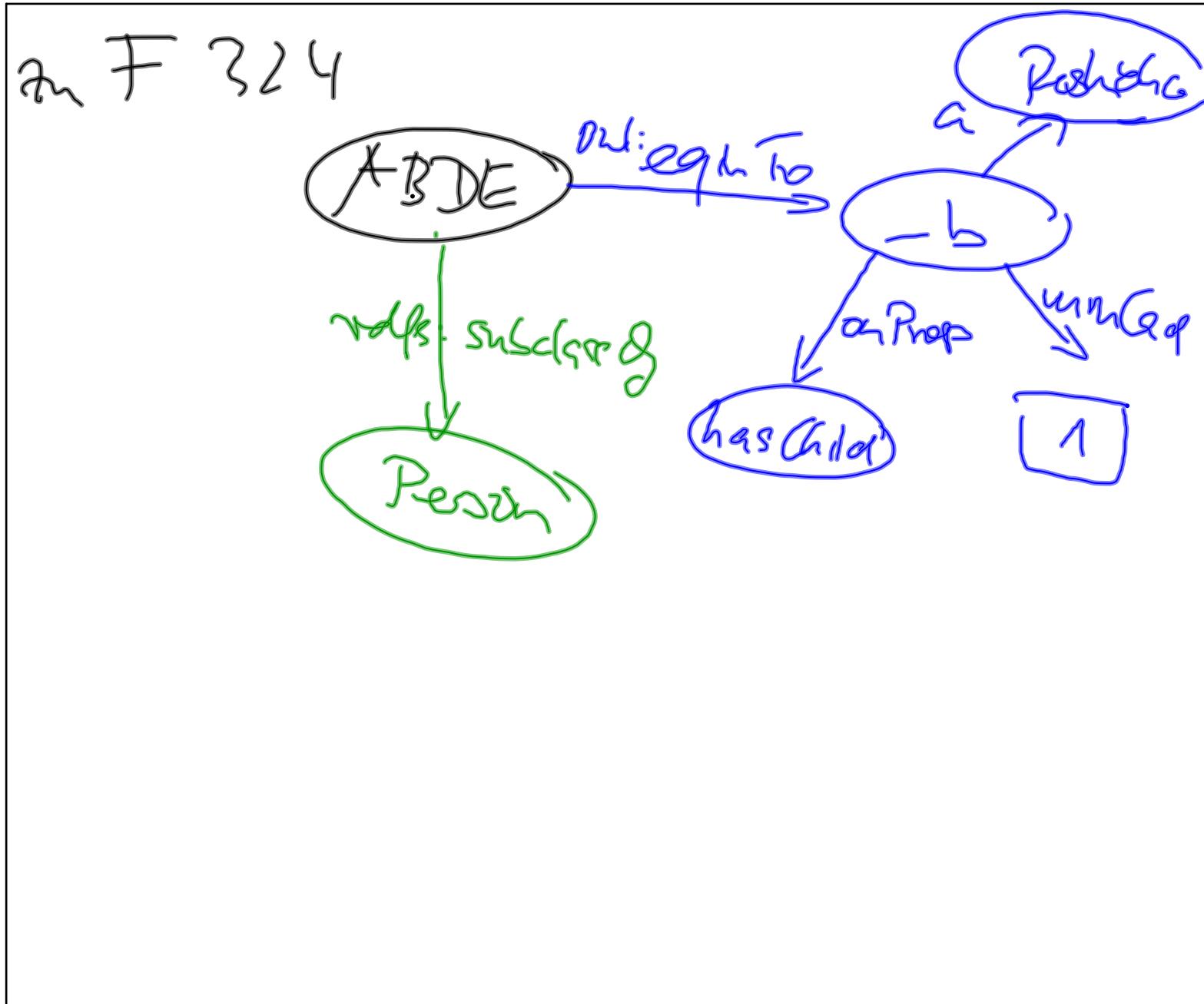
FOL:  $\forall x (\text{Parent}(x)$



$\text{Person}(x) \wedge \exists y : \text{child}(x, y))$





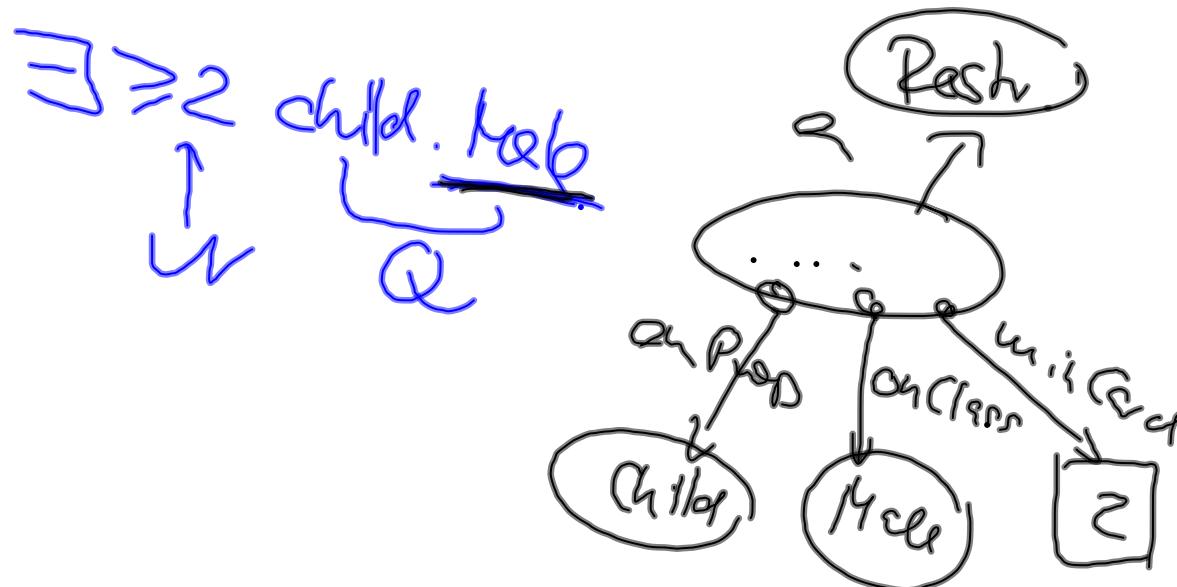


$(\exists \text{child}.\text{Male}) \sqcap (\exists \geq 2 \text{ child}.\top)$

$\equiv$

vs.

$\forall, \text{Kang}$



German City  $\equiv$  in County - Germany "Nominal"  
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