

# Equality and Definite Descriptions

Bertrand Russell, On Denoting, *Mind* 14, 56 (Oct. 1905), 479–493:  
“The present king of France is bald.”

$$\begin{aligned} \exists x(&PresentKingOfFrance(x) \\ &\wedge \forall y(PresentKingOfFrance(y) \Rightarrow y = x) \\ &\wedge Bald(x)) \end{aligned}$$

Note, this is equivalent to:

$$\begin{aligned} \exists x(&PresentKingOfFrance(x) \\ &\wedge \neg \exists y(PresentKingOfFrance(y) \wedge y \neq x) \\ &\wedge Bald(x)) \end{aligned}$$