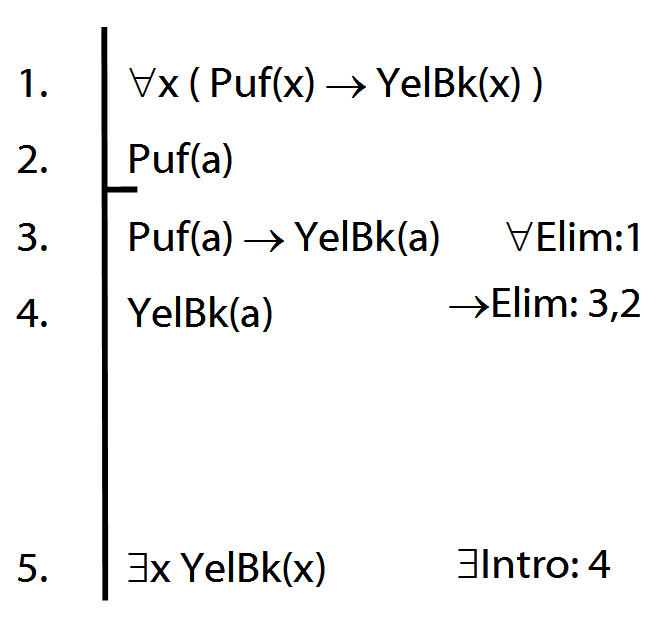
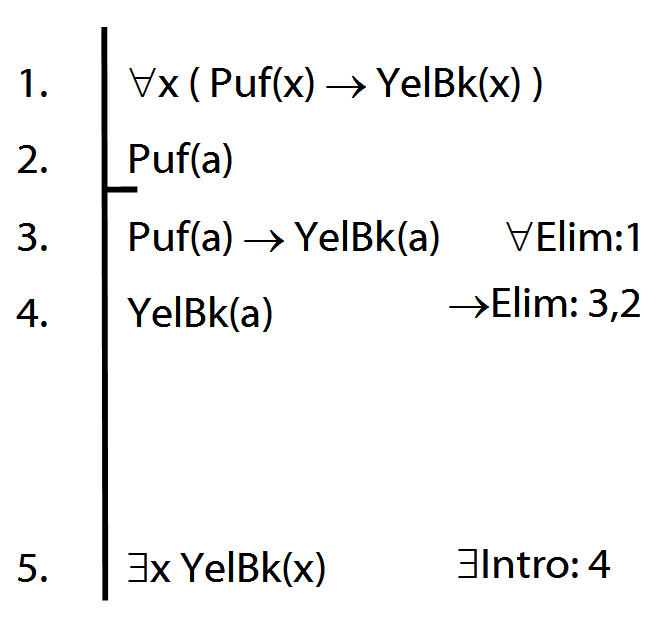
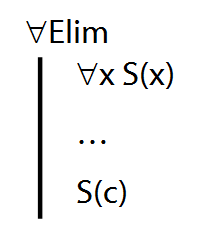
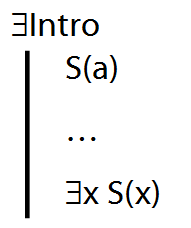
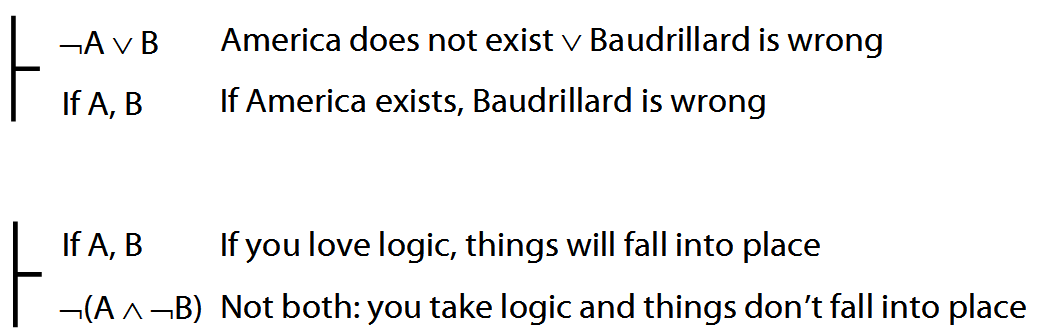
**PH133 Logic**  Lecture 7

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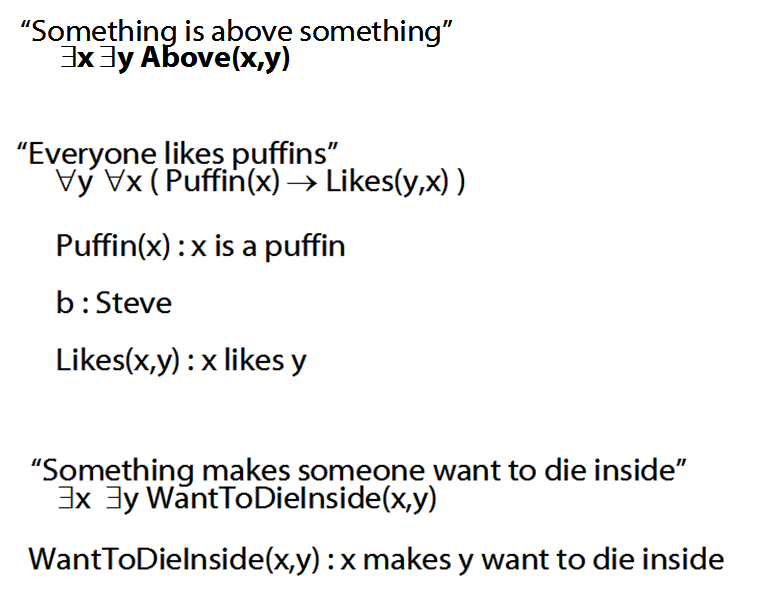
Proof example: ∀Elim, ∃Intro 

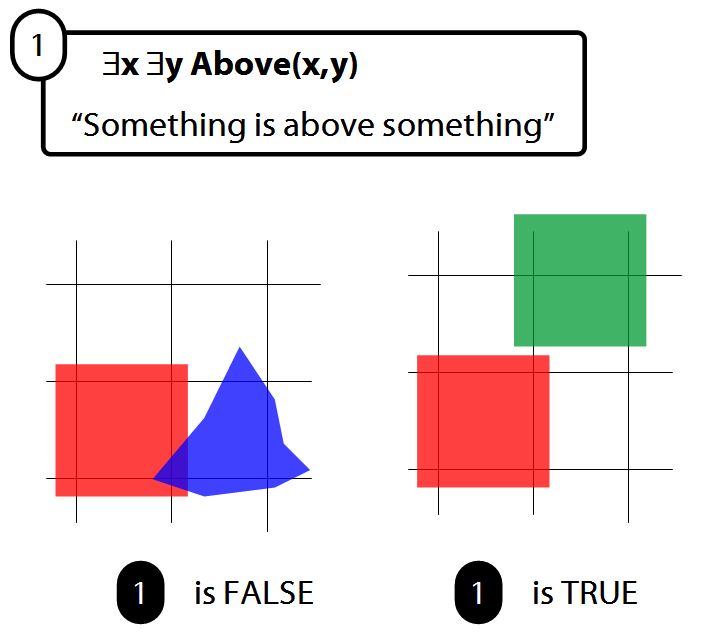
 

‘If’ and ‘→’ do match



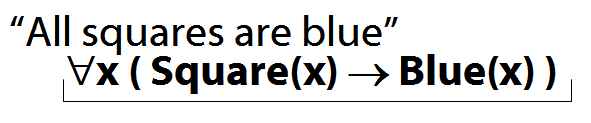
Multiple quantifiers: simple examples

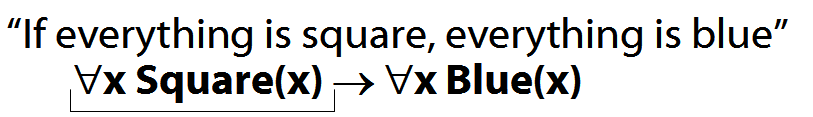




Scope

Underlining shows the scope of the quantifiers

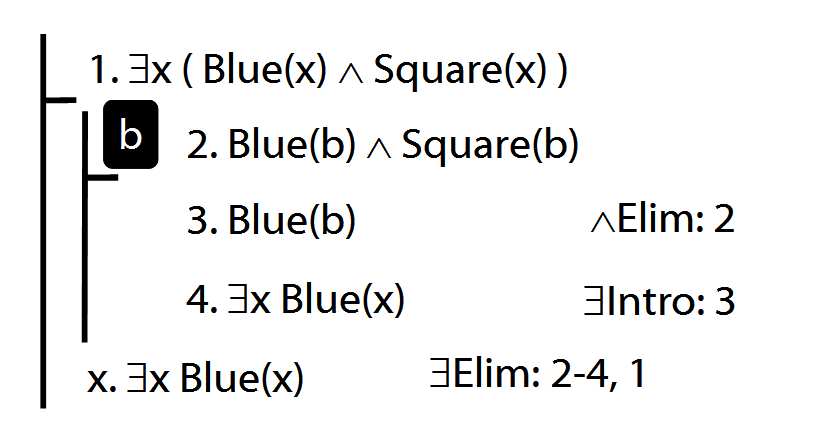




Quantifiers bind variables

Read §9.2 of Barwise & Etchemendy

**Proof example:** ∃**Elim**



**Invalid use of** ∃**Elim**

