24.973 Advanced Semantics Spring 2009

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Homework 1

- (1) [[believe]]^w = λpλx.B(x)(w) = p
 → Prove that ¬John believes it's raining and John believes it's windy¬ is a contradiction
- (2) $[[believe]]^w = \lambda p \lambda x.B(x)(w) \cap p \neq \{ \}$ \rightarrow Igor's comment...

Class 17.02

- (3) Three separate issues
 - a. existence presupposition
 - \rightarrow "Frege is famous" / "Frege is smoking"
 - b. intersective vs. restrictive adjectives
 → "pink elephant" / "small elephant"
 - c. subject position vs. predicate position \rightarrow "John thinks the man is a woman"

Class 18.02

- (4) 「modal p¬ talks about the actual world
 ¬John must leave¬ = the actual world w₀ is such that the Ashdown regulations as written in w₀ implies that John leaves
- (5) $\llbracket \text{must } p \rrbracket^w = 1 \text{ iff } w \text{ is such that } BLACK_BOX(w) \subseteq p$ $\llbracket \text{may } p \rrbracket^w = 1 \text{ iff } w \text{ is such that } BLACK_BOX(w) \cap p \neq \{ \}$ $\rightarrow \text{ the context supplies the content of } BLACK_BOX$
- (6) context & assignment function $\llbracket [must f] \text{ John leave} \rrbracket^{w,g} = 1 \text{ iff } w \text{ is such that } \llbracket f \rrbracket^{w,g}(w) \subseteq [\lambda w'. \llbracket \text{John leave} \rrbracket^{w'}]$
- (7) What we know when we speak
 - the content of g
 - the intension of 「must¬, 「John¬, 「leave¬
- (8) context = subpart of the real world what's wrong with the following? $[[must p] q]^w = 1$ iff w is such that $p = \{...\}$ and $p \rightarrow q$
- (9) $[John might have to leave]^{w,g} = 1 \text{ iff...}$