Analysis of Sense Language

By Dennis J. Darland

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Definition of Telling of Sensing

I've been thinking about the "telling" relation. (In trying to understand opacity.) My idea is: (in special case of sensing)

S1 tells S2 that R(S1,a) at t (i.e, tells(S1,S2,R, S1,a))

 =df ($\exists$ w_m)($\exists$ x_m) ($\exists$w_p)($\exists$x_p) ($\exists$ w_m2)($\exists$ x_m2))($\exists$ x_s2)

 sense_relation(S1,t,x_s,a)

 & m_symbol_1r(S1,t,w_m,sense_relation) & m_symbol_0r(S1,t,x_m,x_s)

& p_symbol_1r(S1,t,w_m,w_p) & p_symbol__0r(S1,t,x_m,x_p)

& says(S1,t,w_p,x_p)

& hears(S2,w_p,x_p)

& p_symbol_1r(S2,t,w_m2,w_p) & p_symbol__0r(S2,t,x_m2,x_p)

& m_symbol_1r(S2,t,w_m2,sense_relation) & m_symbol_0r(S2,t,x_m2,x_s2)

& s_symbol(S2,t,x_s2,a)

Here

- S1 is the teller

- S2 is the person told

- sense_relation(S1,x_s,a) is the sense fact S1 is telling to S2

- w_m is a mental symbol for sense_relation (for S1) at time t

- w_s is a mental symbol for sensation learned from objects like a (for S1) at time t

- x_m is a mental symbol for a (for S1) at time t

- w_p is a physical (shared) symbol for sense_relation (for S1 and S2) at time t

- x_p is a physical (shared) symbol for a (for S1 and S2) at time t

- w_m2 is a mental symbol for sense_relation (for S2) at time t

- x_m2 is a mental symbol for a (for S2) at time t

- w_s2 is a mental symbol for sensation learned from objects like a (for S2) at time t

- m_symbol_1r(S,t,w_m,sense_relation) is a relation between subject S at time t between a mental idea m_w and relation sense_relation

- m_symbol_0r(S,t,x_m,a) is a relation between subject S at time t between a mental idea x_m and object sense_object x_s (learned thru objects like a)

    In the simplest cases a m_symbol relation is an association of a mental idea x_m and sense object x_s learned from objects like a, typically produced through experience.

- p_symbol_1r(S,t,w_m,w_p) is a relation between subject S at time t between a mental idea m_w and physical symbol p_w

- p_symbol_0r(S,t,x_m,x_p) is a relation between subject S at time t between a mental idea x_m and physical symbol x_p

- s_symbol_0r(S,t,x_s,a) is a relation between subject S at time t between a sensation x_s and objects like a.

Analysis of Private Language Argument

I plan to make analysis of private languages in these terms.