NTS: P(sg | V) > P(se | V) [proof exists (?) for flat prior ig = to and initial string likelihood Pr = qu tapo + to 9v to 9v 78 PV + TC9V + TC(1-9V-9)+TC(1-9V-9) 79-19PV-79P2+70-709V-709~ (=> +9 PV (+9- +1 PV - +1 PV ++ C -+ CQV -+ CQ~) (+c-+cqv-+cqv) · (+qpv++cqv) TgTcPV+ TgTc9v-TgtcPv9v-Tcqv-TgtcPv9n-Tc3qv9n (=> tg PV - tg PV - tg PVP~ tgtc PV - +cqV - 2qv92 (=> (== +++c) PV - +2 PV2 -+2 PVP2

· ohay, it is dow that any pries for as for Sq will pull dose (4) towards by i show that, by new libelihood, the same result is expected; so set: Ex=0 PV + 9V PT + 9V (=> PVPV + PYQV > PYQV + 9V9V (PV +EP) PV > 9v (9v+Eq) Epsoducing Vishen adequede is less likely than producing > 1/2 + Eqqv V when adequate] PVK9-> 9v + Eq 9v + Epg 9v Eponducing Violen inadequote is less likely then producing Vishen inadequate or

Computational Pragmatics

Interpreting polite evaluations (chapter IX of problang.org) -(+3-7-6-1) (9V - 9V 9~)

Session 9

maybe assure that: If = To+ Ex with 0 = Ex muall & PV+EV=9V 19ith 068-68=

both we natural anaptions

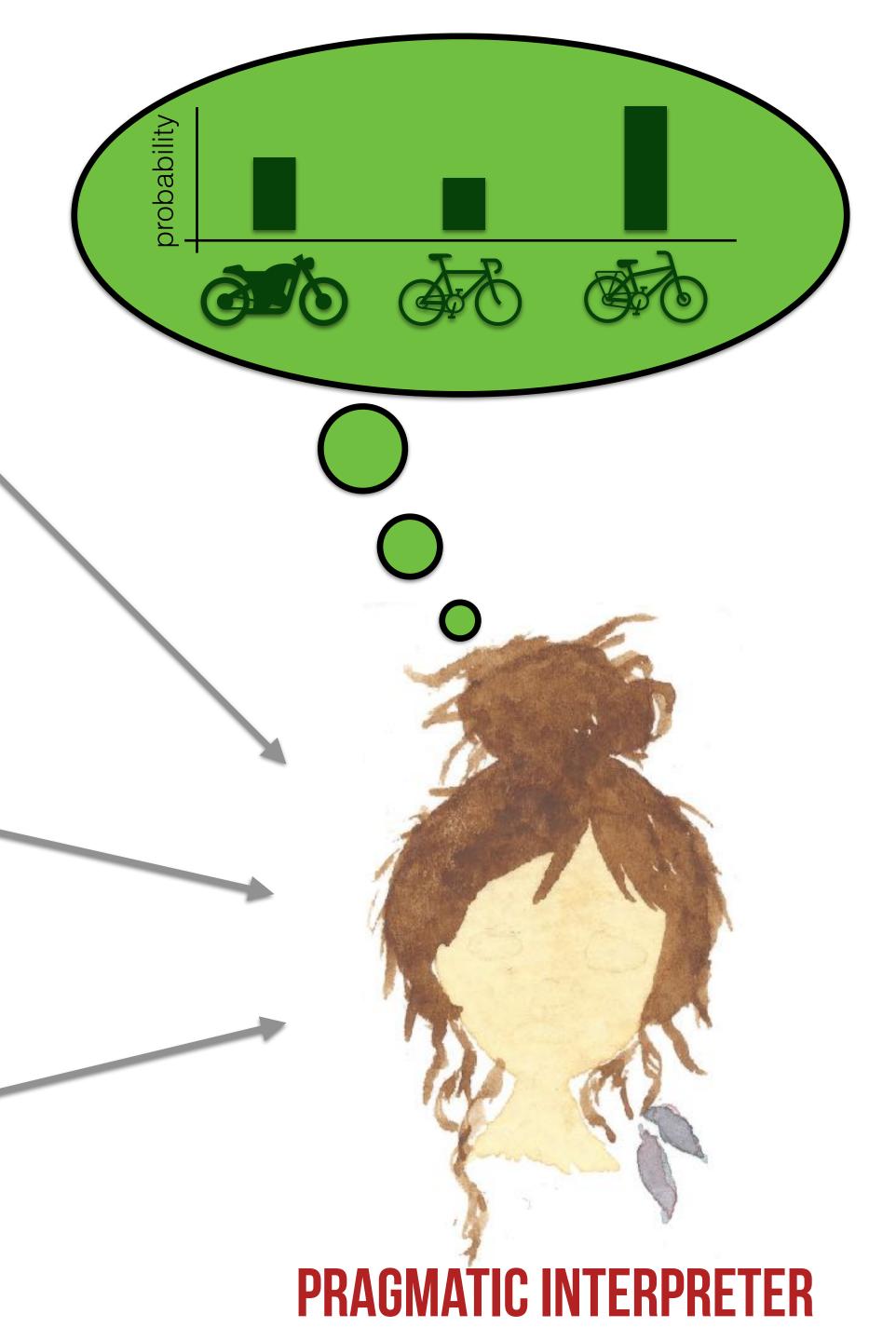
also assured here: 90 > PT &



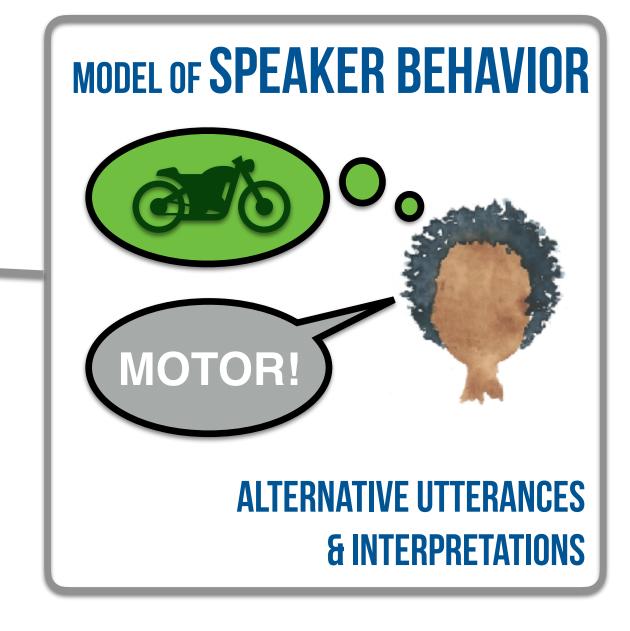
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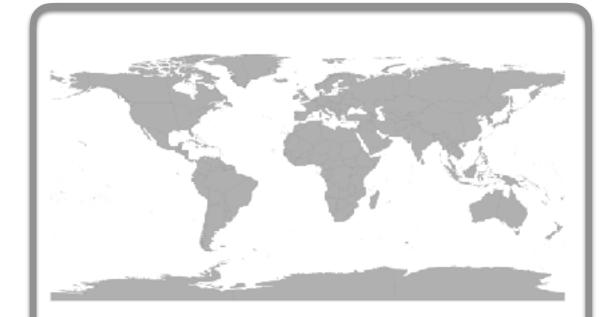




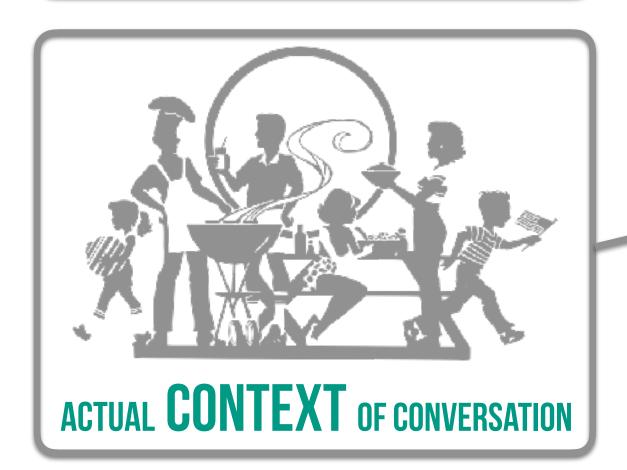


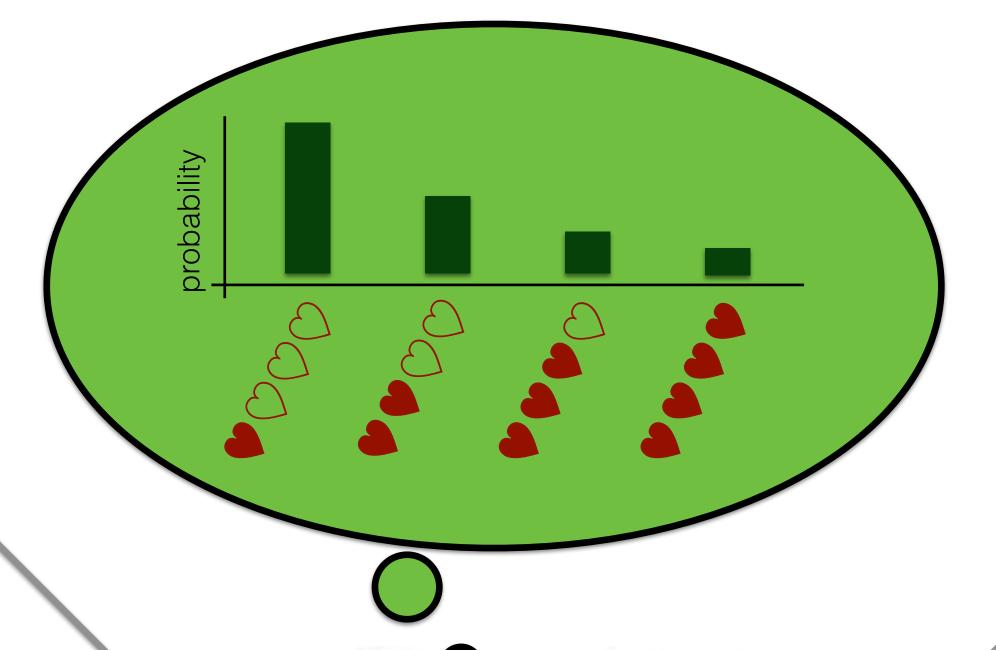
 $[[Joe]] = \lambda e . \lambda w . Joe(e, w)$

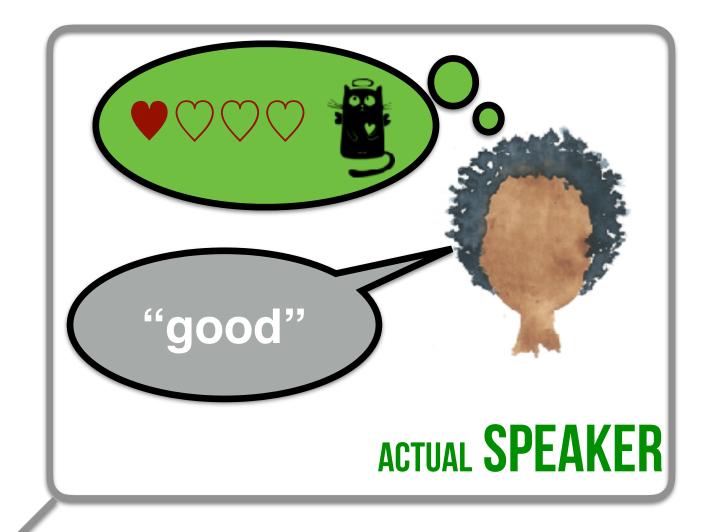
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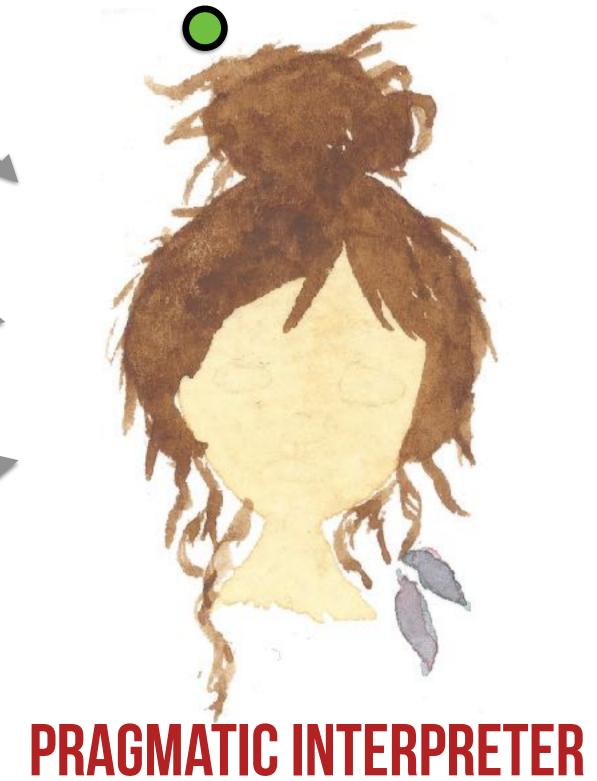


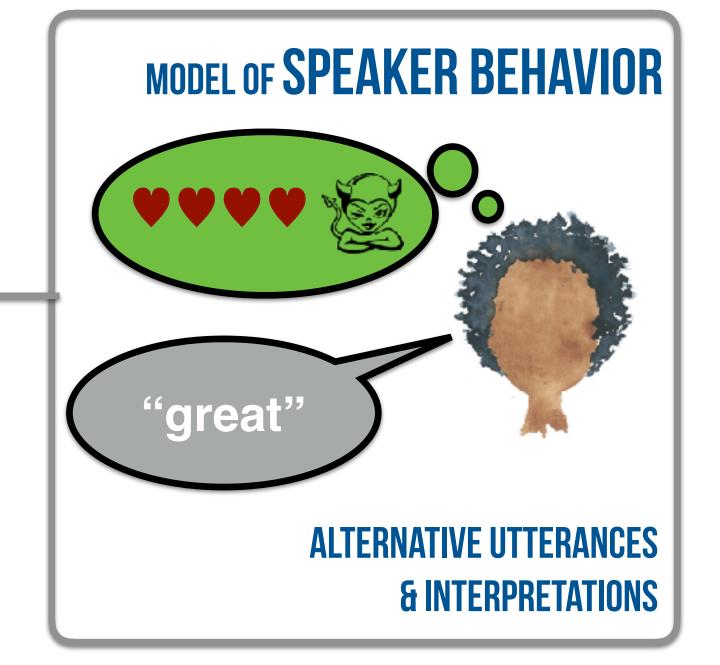
GENERAL WORLD KNOWLEDGE

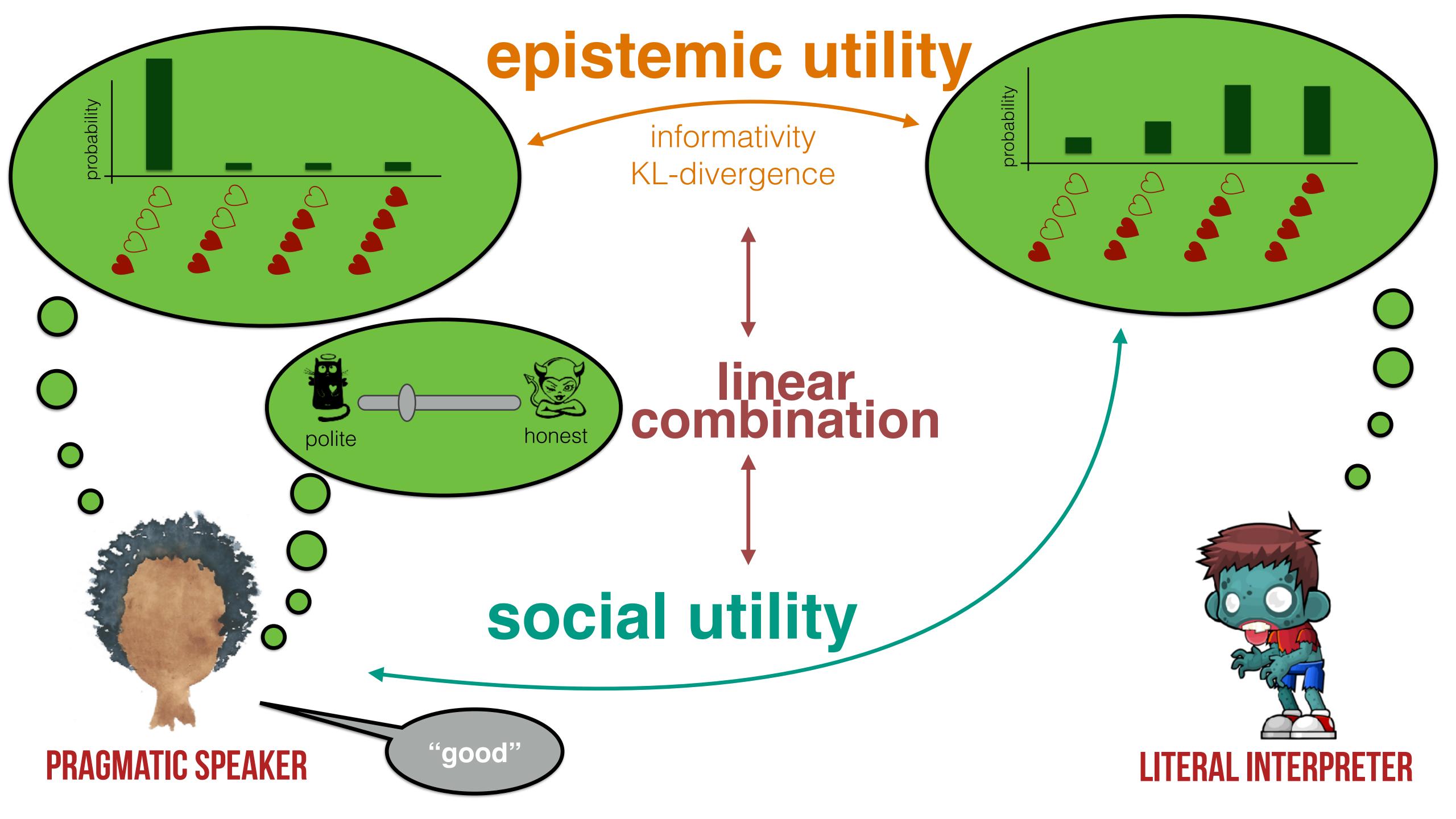


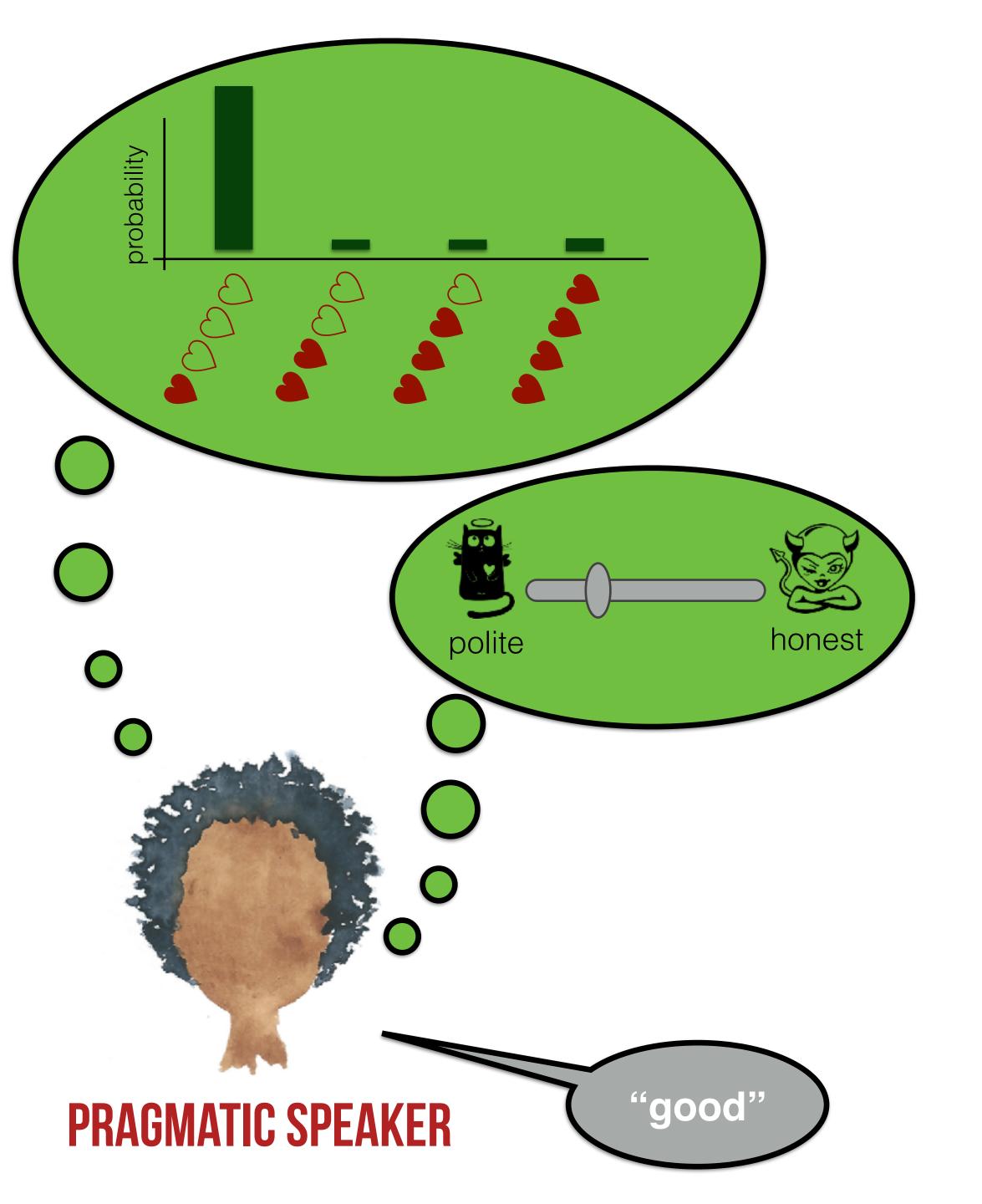


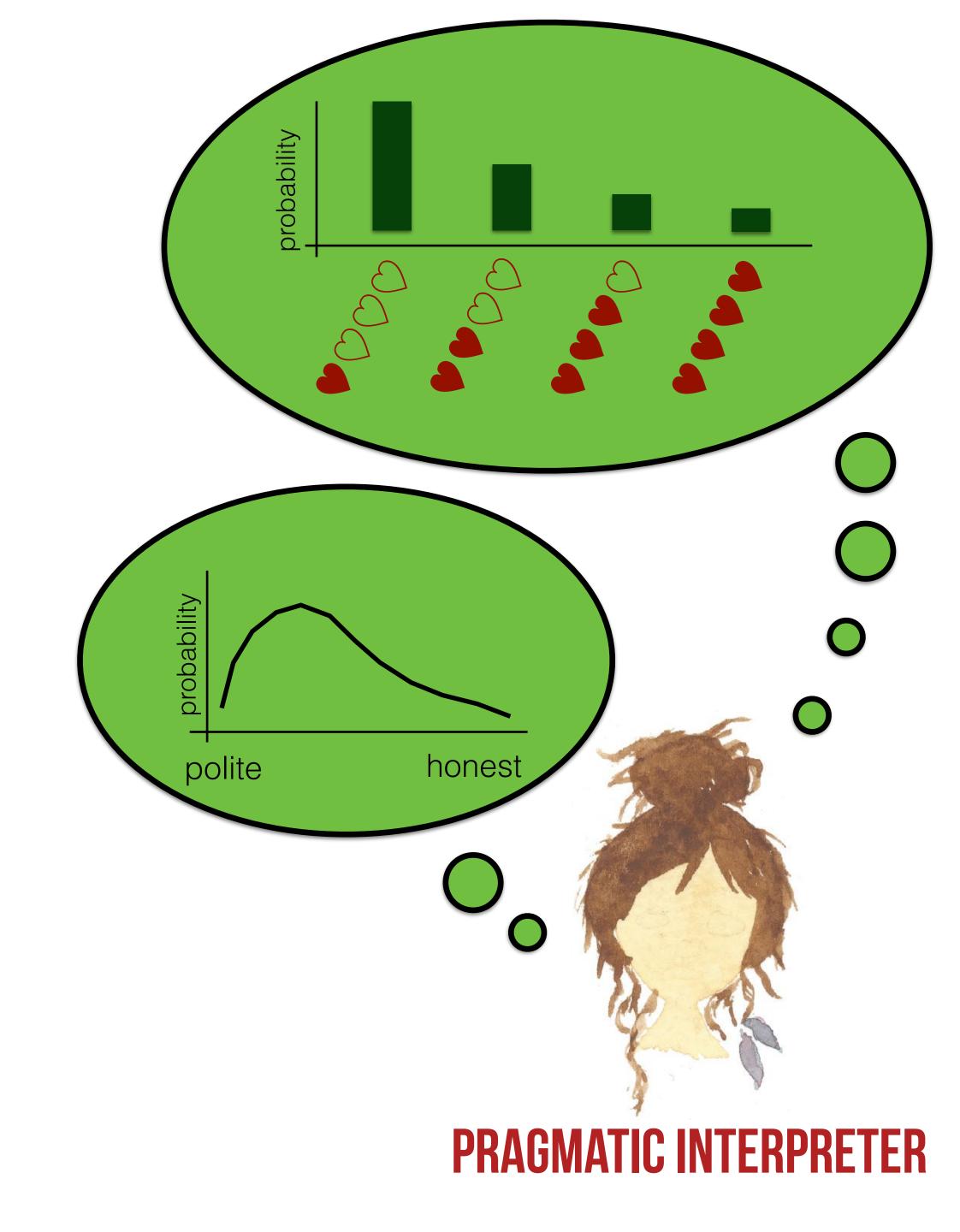












modeling polite language use

Vanilla RSA

$$P_{L_0}(s \mid u) = P(s \mid [[u]])$$

$$P_{S_1}(u \mid s) \propto \exp\left(\alpha \left(\log P_{L_0}(s \mid u) - C(u)\right)\right)$$

$$P_{L_1}(s \mid u) \propto P(s) P_{S_1}(u \mid s)$$

polite language model

$$\begin{split} P_{L_0}(s \mid u) &= P(s \mid \llbracket u \rrbracket) \\ P_{S_1}(u \mid s, \varphi) &\propto \exp\left(\alpha \ U(s, u, \varphi)\right) \\ U(s, u, \varphi) &= \varphi \ \log P_{L_0}(s \mid u) + (1 - \varphi) \sum_{s'} P_{L_0}(s' \mid u) \ V(s') \\ \hline \text{epistemic util} \end{split}$$

$$P_{L_1}(s, \varphi \mid u) \propto P(s) P(\varphi) P_{S_1}(u \mid s, \varphi)$$

$$P_{S_2}(u \mid s, \varphi) \propto \exp\left(\alpha' \left(\log P_{L_1}(s, \varphi \mid u)\right)\right)$$
 "self-representational speaker"