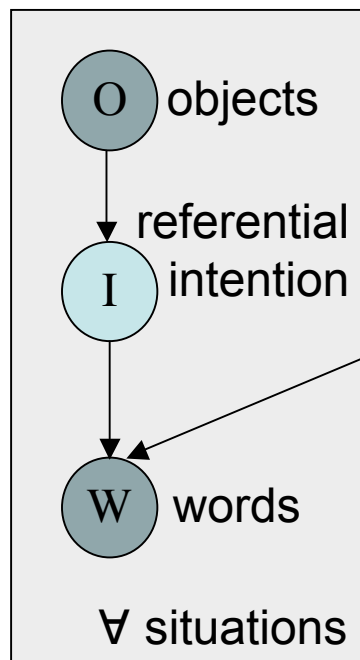


A Bayesian Framework for Cross-Situational Word Learning

Michael C. Frank, Noah D. Goodman, & Joshua B. Tenenbaum (W33)

Graphical model



lexicon

Word	Object
bear	bear
bigbird	bird
bird	duck
birdie	duck
book	book
bottle	bear
bunnies	bunny
bunnyrabbit	bunny
hand	hand
hat	hat
hiphop	mirror
kittycat	kitty
lamb	lamb
laugh	cow
meow	baby
mhmm	hand
mirror	mirror
moocow	cow
oink	pig
on	ring
pig	pig
put	ring
ring	ring
sheep	sheep

Quantitative results

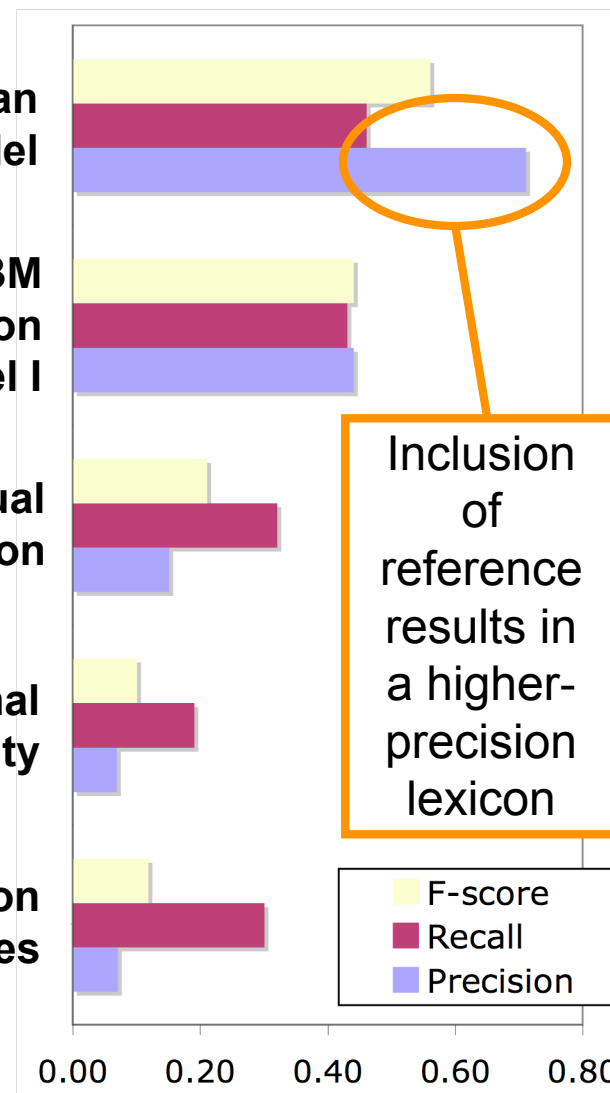
Bayesian model

IBM Translation Model I

Mutual information

Transitional probability

Association frequencies



Corpus data from CHILDES annotated with objects