

Normative Base

March 24, 2020

Language

- Basic terms
 - Stripes: no, left, right.
 - Colors: red, blue, is_dark.
- Operators:
 - **Basic**: read value: $v(o, m)$. o : object, m : marker.
Markers: color_1, color_2, darkness_1, darkness_2.
 - **Relational**: equal, not.
 - **Higher-order**: hasPattern, colorCombo, darknessCombo, flipStripes etc.

Full Bayesian

1. Object + Object \rightarrow Object.
2. $v(A, m) + v(R, m) \rightarrow v(R', m)$, for all marker and marker combinations.
3. Possible theories: delta-based, like the one in our cogsci submission.

Parser model

1. Delta-based model for each trial.
2. Similarity comparison across trials – order effects.

Modeling frameworks to implement

- Adaptor tree
- Win stay loose sampling
- MCMC