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1. Introduction

- Language production, like comprehension, is incremental^[1] • When describing an image, speakers: (1) Apprehend Scene \rightarrow (2) Formulate Message \rightarrow (3) Linguistically Encode Message \rightarrow (4) Phonologically Encode Message \rightarrow (5) Begin Articulation
- **Griffin and Bock (2000):** Used visual-world eye-tracking paradigm to investigate whether linguistic encoding is semantically or syntactically driven

Actives: The mailman is chasing the dog. **Passives:** The mailman is being chased by the dog.

- Found encoding driven by syntactic prominence: Speakers encode the subject before the object, even when the subject is the patient
- **BUT,** other factors may complicate syntactic account
- Subjects were always more salient human characters
- Planning of agent in passive by-phrases unknown

2. Current Study

1. Psych verbs separate syntactic from semantic structure^[2] 'blames', 'confronts', 'praises' **Agent-Patient: Experiencer-Stimulus:** 'fears', 'loves', 'hates' **Stimulus-Experiencer:** 'scares', 'amazes', 'confuses' **Question:** Does **linguistic encoding** start with the most syntactically (Subject) or semantically prominent argument (Agt >> Pat; Exp >> Stim)? 2. Causal structure of psych verbs is different from action verbs^[3] 'who **did** what to whom' **Action verbs:** 'who caused what in whom' **Psych verbs: Question:** To what extent is **message formulation** sensitive to the causal structure of actions versus psychological states? 3. Hypotheses & Predictions Agt-Pat Exp-Stim Stim-Exp Leslie scares Ann Leslie fears Ann Leslie blames Ann Message Formulation (200-400 ms)^[4] Agt-Pat don't Action vs Psych Exp-Stim & Stim-Exp verbs behave like verbs differ behave similarly Psych verbs Linguistic Encoding (400-1000 ms)^[5]

Subject Syntactic Subject **Object** Semantic

REFERENCES: [1] Levelt, 1989; Bock and Levelt, 1994 [2] Grimshaw, 1980; Jackendoff, 1987 [3] Brown and Fish, 1983; Corrigan, 1988 [4-5] Griffin & Bock, 2000 [6] Ferreira, 1994; Thompson and Lee, 2009 THANKS TO: Russell Endowed Fellowship (USC), A. Besserman (USC) for images

The role of syntax and semantics on production planning

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