WP6 2015: Mechanisms of instrumental learning and the conscious experience of agency

> Patrick Haggard & Nura Sidarus, UCL Axel Cleeremans, ULB Marcel Brass, UG

Main activities

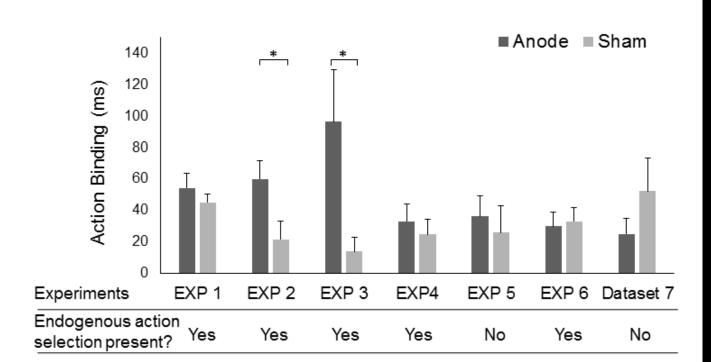
- 1. Metacognitive fluency and sense of agency (Nura Sidarus)
 - Collaborative visit to Columbia (Metcalfe Lab)
 - COOL work presented at ASSC, Psychonomics...
 - First designs combining explicit agency attribution and implicit measures
 - PhD ends 2/2016. No more money 😕
- 2. Freedom, coercion and responsibility (Emilie Caspar/WP7)

Action selection processes in dorsolateral prefrontal cortex contribute to sense of agency: a meta-analysis of tDCS studies of 'intentional binding'

Brain Stimulation, (resubmission review)

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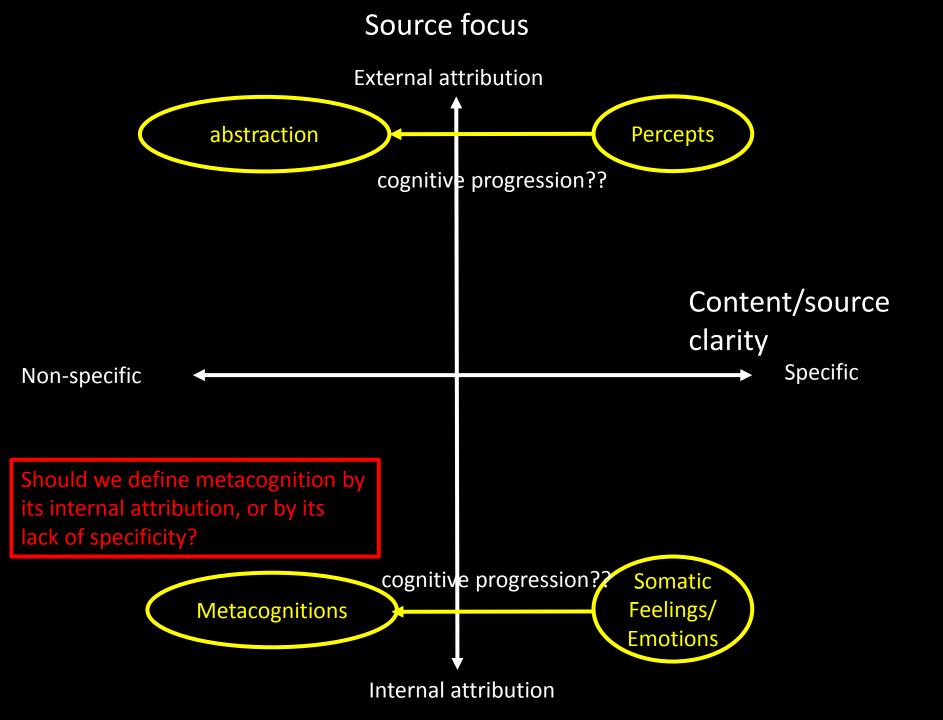


2016 Research Questions, Future directions

Metacognition v2.0

- How does metacognition differ from other states?

- How can we measure it?



Measuring metacognition

Cognition

- "How confident are you?" Perception
- "How easy was it?"
- "Did you do it?" Agency
- Do people understand the question?
- What dimensions of experience do people report?
- Can we separate these dimensions by our questions? (Probably not)
- Is metacognitive "Semantic Differential" feasible? Evaluation, potency, activity (EPA scale)
- How do we make sure we study the experience, rather than getting stuck in studying our own measurements? (cf Neuropsychology)

