

Common Ground between Groups: Entrainment and Mimicry

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Large groups



- **Synchrony Rituals lead to Collective effervescence** (Ehrenreich, 2006).
- **Determined by Natural Imitation** (Jens Krause's group, e.g., Dyer et al., 2009)
- **Same behavior in other species (e.g., fishes and sheep)**
- **Shaped by cultural factors** (M.H. Pillot, 2011)



Smallest groups

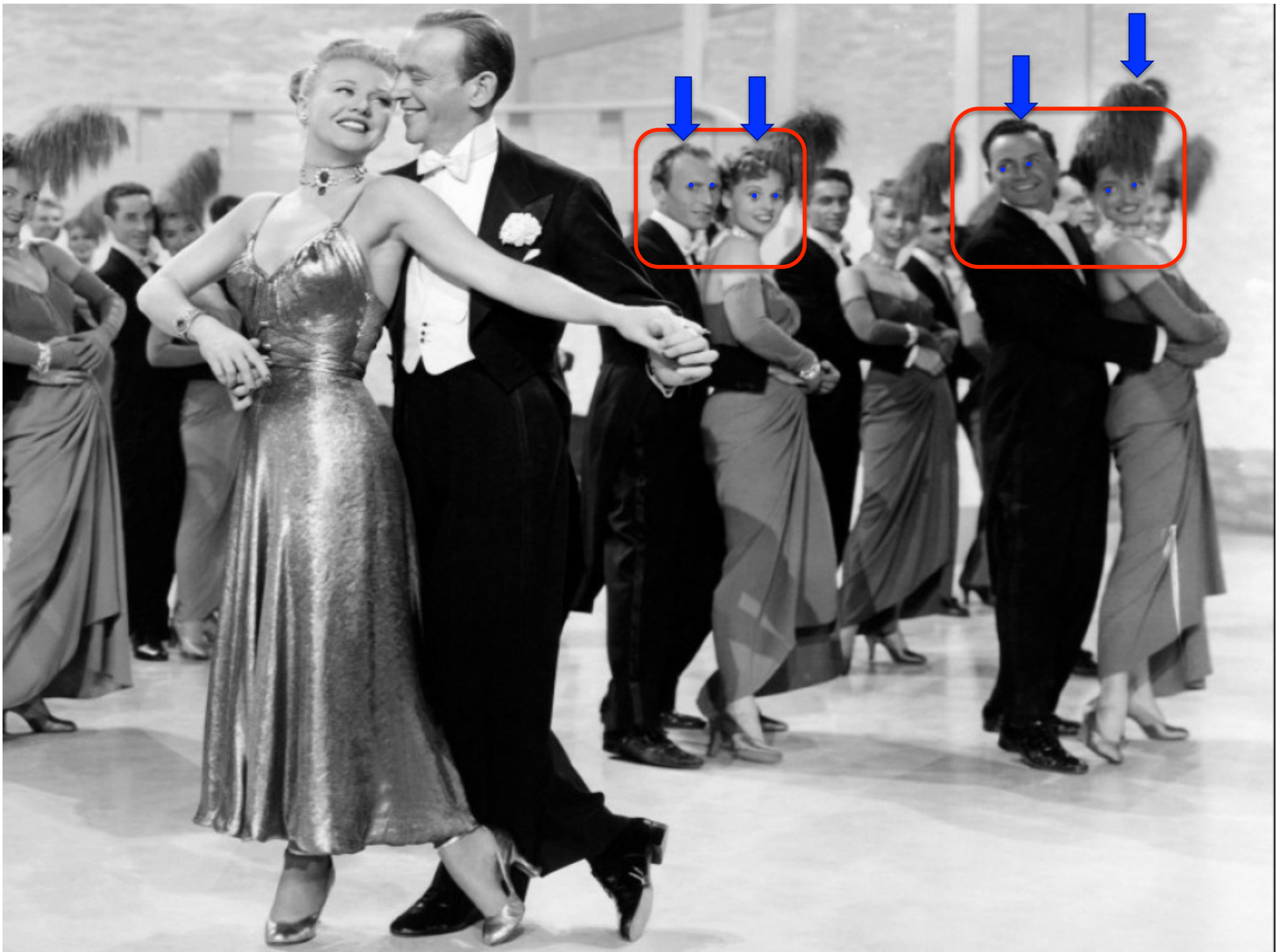
ENTRAINMENT

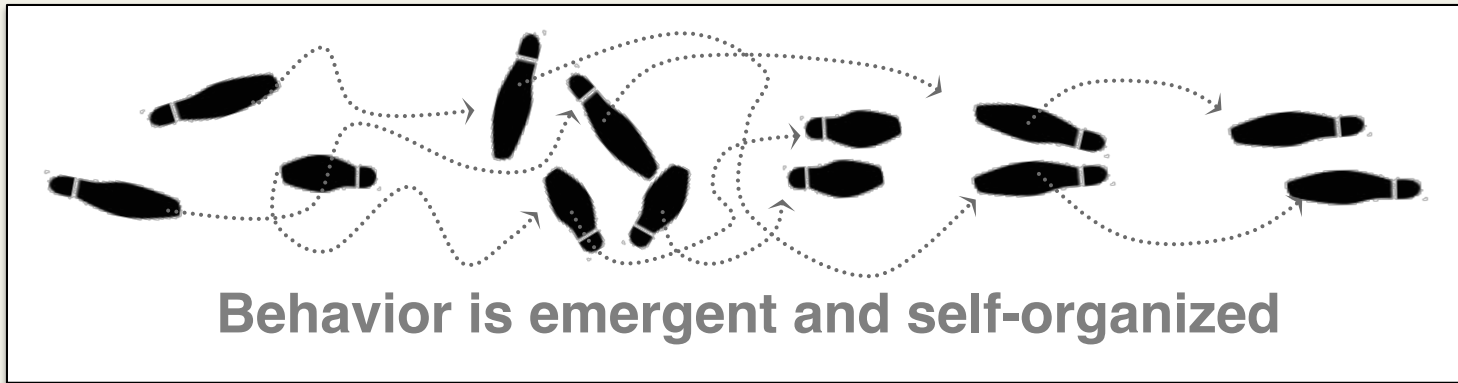
process by which the behavior of two independent systems becomes aligned when they interact (e.g., Marsh et al., 2009)

ACTION SIMULATION

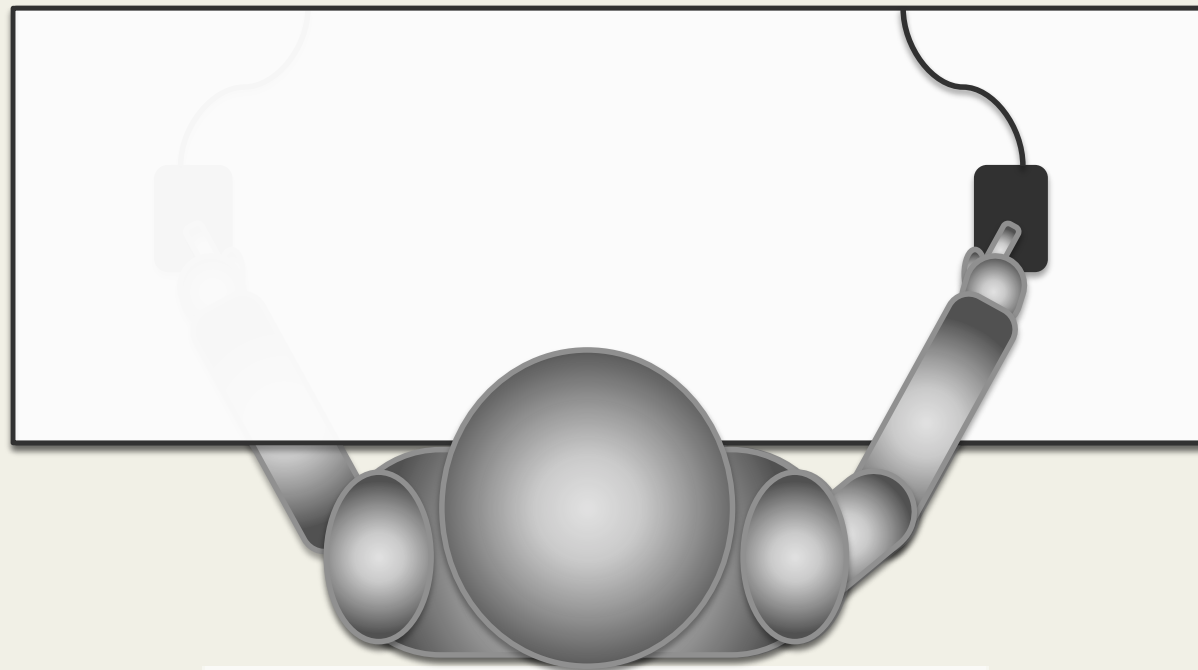
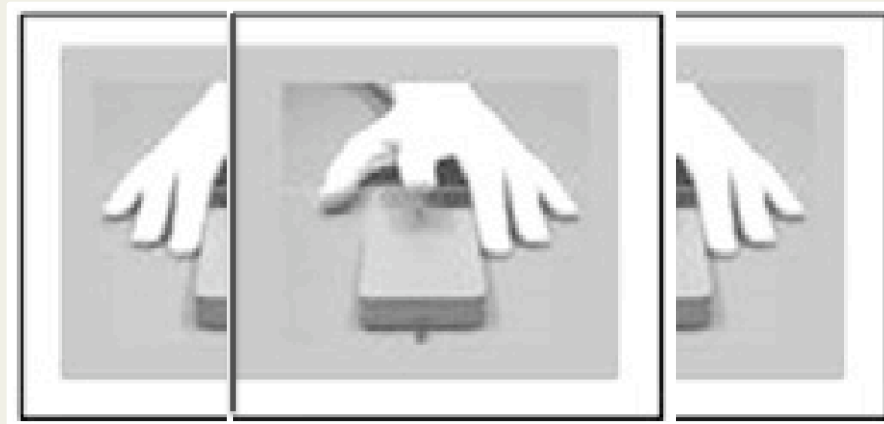
predictive internal models use to guide performance of own actions are used to predict the actions of other agents (e.g., van der Wel, Sebanz, & Knoblich, *in press*)







Research Paradigm

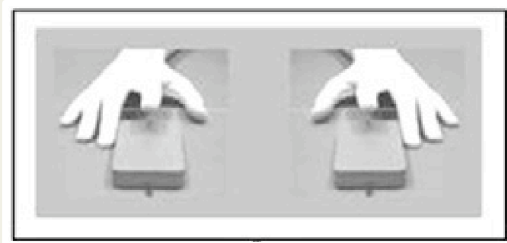


Participant

Research Paradigm

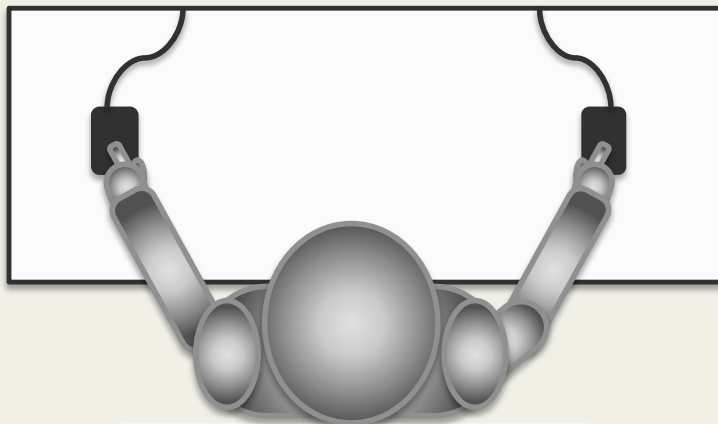
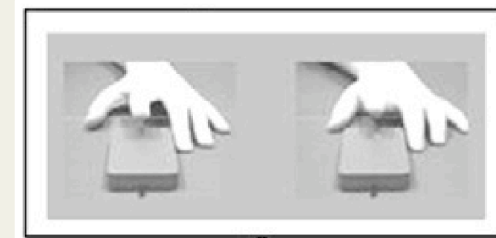
How does observing group actions affect individual performance?

Individual

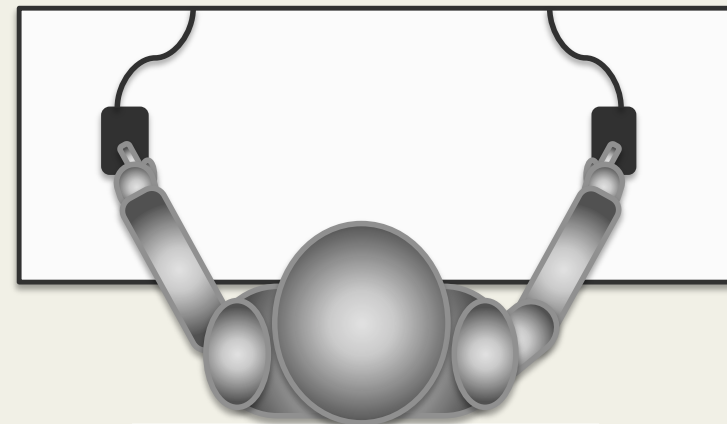


Both observed hands move or only one hand moves

Group



Participant



Participant

Predictions:

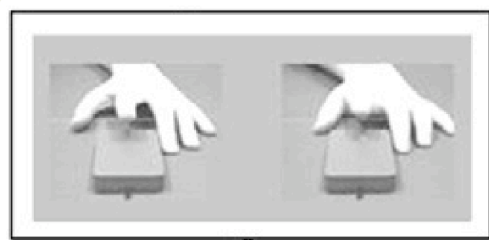
- Participants' mean reaction times will be slower when observing both hands move compared to observing one hand move.
- Participants' mean reaction times will be slower when observing group actions compared to observing individual actions.

Research Paradigm

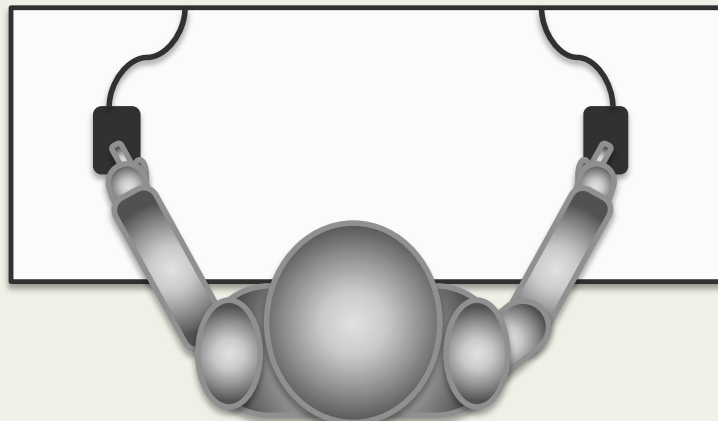
How do social factors (e.g., perceived group affiliation) modulate participants' responses to other individuals and groups?

How does the group manipulation affect bimanual coordination?

Individual

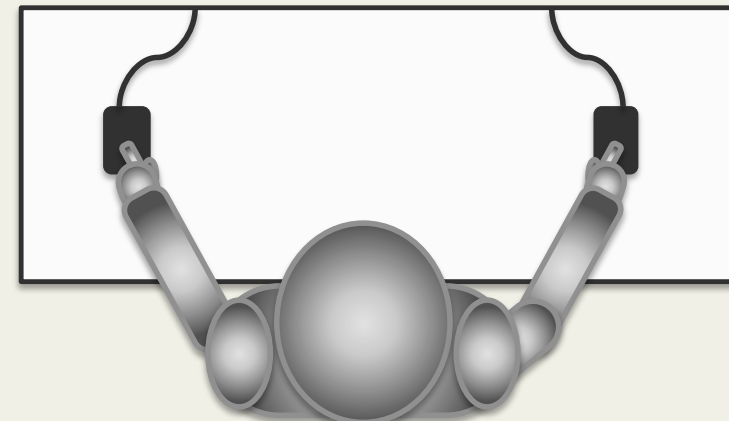
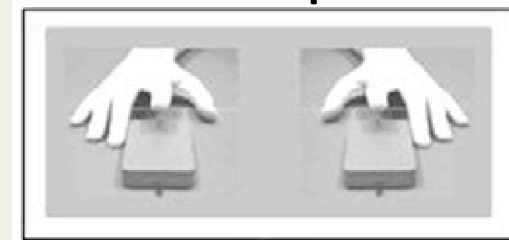


Both observed
and synchronized
movements
only hand
moves



Participant

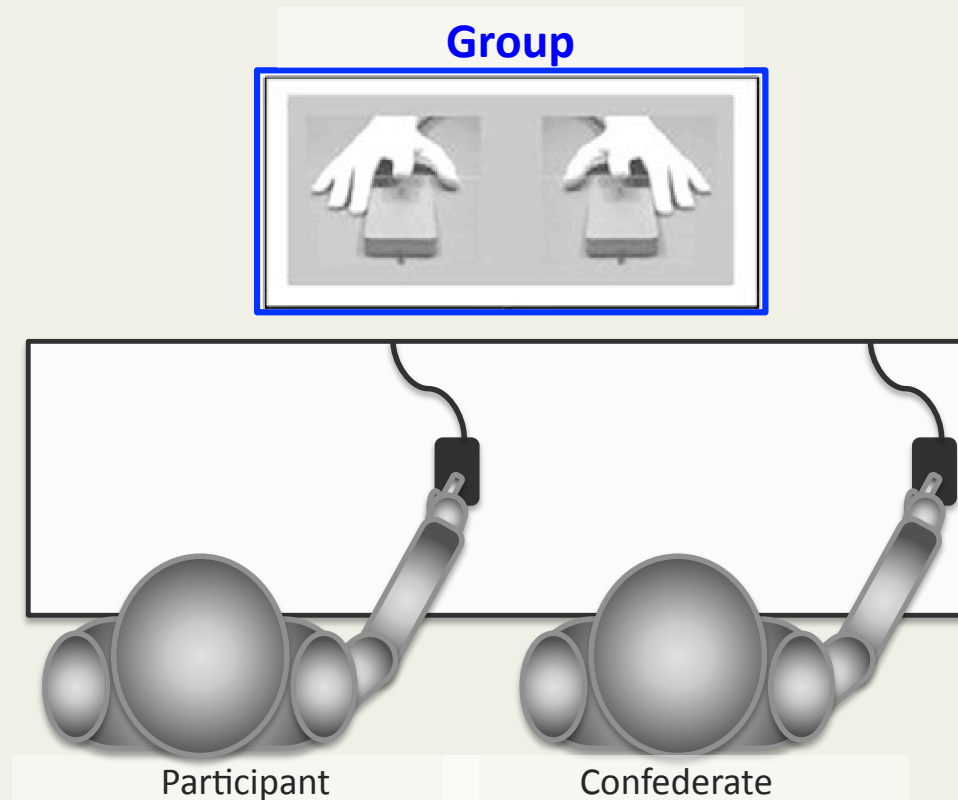
Group



Participant

How does observing group actions affect intergroup coordination?

e.g., In-phase vs. De-synchronized movements





Thank you!

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