

You can't trust an angry group: asymmetric evaluations of angry and surprised rhetoric affect confidence in trending opinions



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Majority opinion is a strong influence on us (and many other species): if 80% of people say Route A is faster than Route B, we trust the majority over the minority.

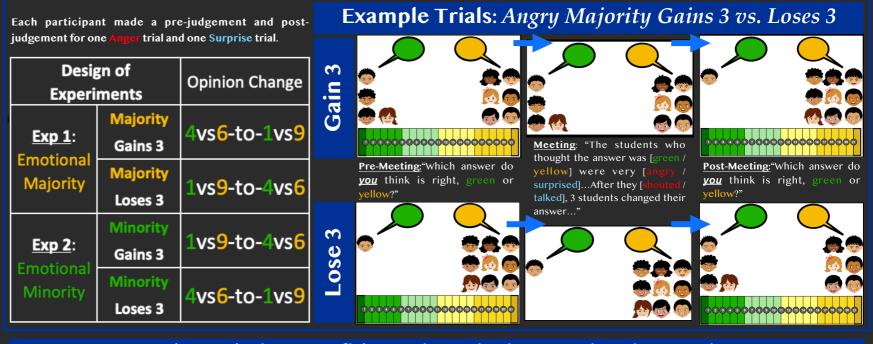
However, our informants also influence each other. Social influence can improve collective learning, but it can also lead to illusions of consensus and groupthink.

Affective cues like **anger** and **surprise** could help learners evaluate social influences on consensus judgements by suggesting whether consensus is **genuine** or **forced**. If so, then confidence in **surprised** factions will **rise** or **fall** as they **gain** or **lose** endorsers. Confidence in **angry** factions will **fall** when they **lose** endorsers, but will **not rise** even when they **gain** endorsers.

Summary

As predicted, participants rejected the "ill-gotten gains" of angry factions, whether the angry faction was a minority or majority.

Emotional expressions and other agents' responses to those emotions provide information about contested beliefs. Though the depth & breadth of human knowledge makes evaluating every claim "on the merits" impossible, emotional cues are one of many that may help us learn from opinion dynamics in groups of social learners.



Results: Relative Confidence in Majority vs. Minority Factions

Trust in Angry vs. Surprised Factions: Pre-Post Shifts Are Symmetric After Losses, Asymmetric After Gains

