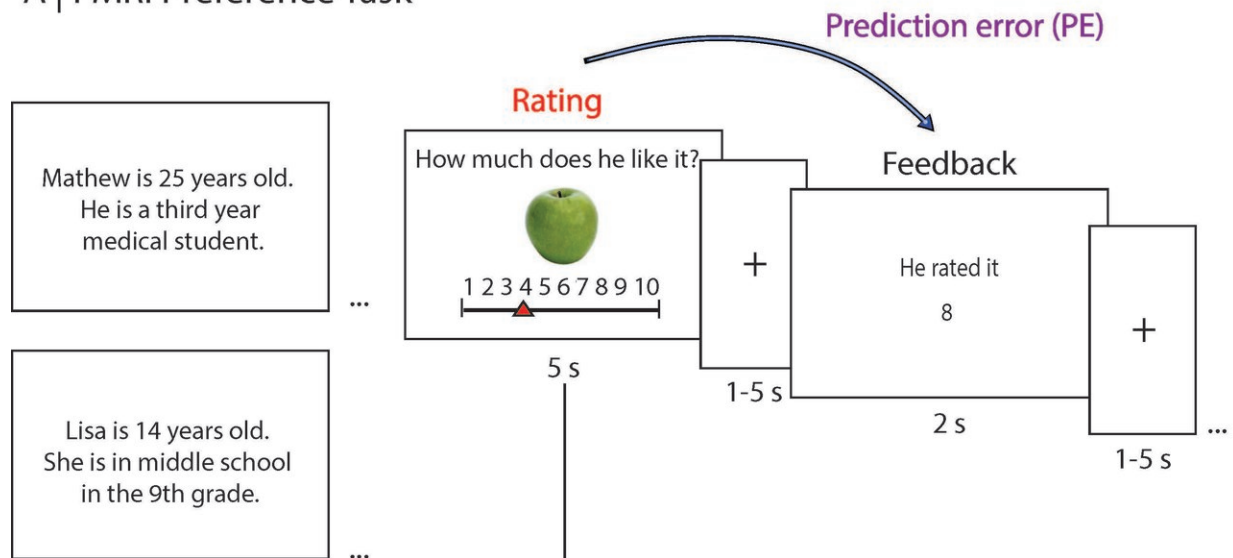


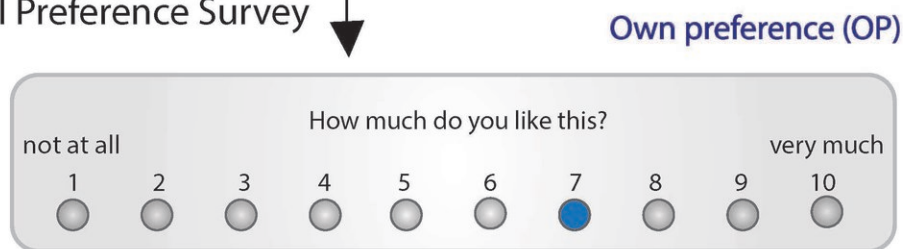
How teens learn about others

December 18 2017

A | fMRI Preference Task



B | Post-fMRI Preference Survey



A. Before each run participants were introduced to the person whose preferences they would subsequently rate. Adults and adolescents rated preferences of persons from their own peer group on a 10-point Likert scale (1='not at all' and 10='very much'; rating phase) and received trial-by-trial feedback about the person's actual rating for the item (feedback). B. After the preference task, participants rated their own preferences for the same and similar additional items on the same ratingscale. Credit: Rosenblau, Korn & Pelphrey, *JNeurosci* (2017)

Despite their intense interest in other people, adolescents are slower to learn about the preferences of their peers than adults, according to results from a new approach to studying social development published in *Journal of Neuroscience*.

Understanding the [mental states](#) of others has been extensively studied in children, yet the development of this theory of mind in teenagers as they transition into the socially complex world of adults and the brain network supporting this ability is not well understood.

In this study, healthy adolescents and adults performed a task in which they learned about a peer's preferences for activities, fashion and food items from a previously conducted survey of individuals not involved in the study. Comparing 13 computational models to explain participants' behavior, Gabriela Rosenblau and colleagues found that both adolescents and adults use a combination of their own preferences and feedback about how their peer actually rated each item to predict their peer's preferences for future items.

Adolescents, however, were less accurate in predicting their peer's preferences and had lower learning rates than [adults](#). Ongoing development of the fusiform cortex and [medial prefrontal cortex](#) during adolescence may underlie these differences.

More information: A computational account of optimizing social predictions reveals that adolescents are conservative learners in social contexts, *Journal of Neuroscience* (2017). [DOI: 10.1523/JNEUROSCI.1044-17.2017](#)

Provided by Society for Neuroscience

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