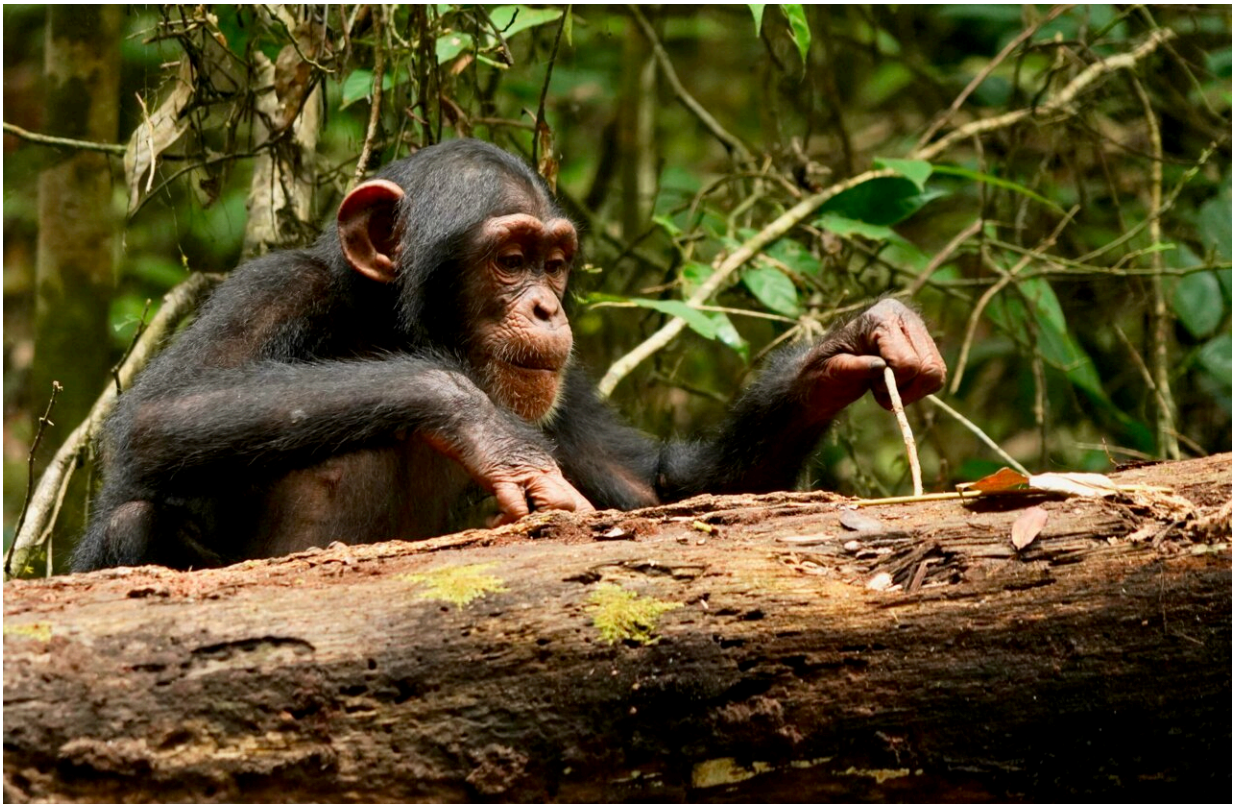


Chimps shown to learn and improve tool-using skills even as adults

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Wild western chimpanzee using a stick tool to extract high-nutrient food. Credit: Liran Samuni, Taï Chimpanzee Project (CC BY 4.0, <https://creativecommons.org/licenses/by/4.0/>)

Chimpanzees continue to learn and hone their skills well into adulthood, a capacity that might be essential for the evolution of complex and

varied tool use, according to a study published May 7 in the open-access journal *PLOS Biology* by Mathieu Malherbe of the Institute of Cognitive Sciences, France and colleagues.

Humans have the capacity to continue learning throughout our entire lifespan. It has been hypothesized that this ability is responsible for the extraordinary flexibility with which humans use tools, a key factor in the evolution of [human](#) cognition and culture.

In this study, Malherbe and colleagues investigated whether [chimpanzees](#) share this feature by examining how chimps develop tool techniques as they age. The authors observed 70 wild chimps of various ages using sticks to retrieve food via [video recordings](#) collected over several years at Taï National Park, Côte d'Ivoire.

As they aged, the chimps became more skilled at employing suitable finger grips to handle the sticks. These [motor skills](#) became fully functional by the age of six, but the chimps continued to hone their techniques well into adulthood.

Certain advanced skills, such as using sticks to extract insects from hard-to-reach places or adjusting grip to suit different tasks, weren't fully developed until age 15. This suggests that these skills aren't just a matter of physical development, but also of learning capacities for new technological skills continuing into adulthood.

Retention of learning capacity into adulthood thus seems to be a beneficial attribute for tool-using species, a key insight into the evolution of chimpanzees as well as humans. The authors note that further study will be needed to understand the details of the chimps' [learning process](#), such as the role of reasoning and memory or the relative importance of experience compared to instruction from peers.

The authors said, "In wild chimpanzees, the intricacies of [tool use](#) learning continue into adulthood. This pattern supports ideas that large brains across hominids allow continued learning through the first two decades of life."

More information: *PLoS Biology* (2024). [DOI: 10.1371/journal.pbio.3002609](#)

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