

Scientists Film How the Brain Makes Memories For the First Time Ever

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For the first time in history, scientists at Albert Einstein College of Medicine of Yeshiva University [have captured how our brain makes memories](#) in video, watching how molecules morph into the structures that, at the end of the day, make who we are. If there's a soul, this how it gets made.

Before this, [Japanese scientists observed how a thought was formed](#), which was an entirely different process. According to the scientists, this has been a “technological tour de force:”

These insights into the molecular basis of memory were made possible by a technological tour de force never before achieved in animals: a mouse model developed at Einstein in which molecules crucial to making memories were given fluorescent “tags” so they could be observed traveling in real time in living brain cells.

The process, which has been documented in two Science papers, required researchers to “stimulate neurons from the mouse's hippocampus, where memories are made and stored, and then watched fluorescently glowing beta-actin mRNA molecules form in the nuclei of neurons and travel within dendrites, the neuron's branched projections.”

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