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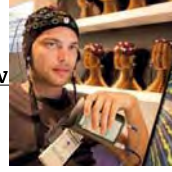
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Scientists are getting closer to replicating the properties of the brain in computers. IMAGES.COM/CORBIS

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Project To Map The Human Brain

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Could human memories be uploaded and stored -- just like data -- in a computer? Scientists say not now, but in the cc us to retrieve them later. Long the stuff of science fiction novels, this kind of merger between computer technology & advances in computer science and artificial intelligence.

Two new high-profile scientific projects are also giving impetus to this idea. President Obama announced a \$1 billion [map-human-brain-130219.htm](http://news.discovery.com/human/project-map-human-brain-130219.htm), while the European Union announced it would fund a \$1.3 billion effort to build a h ourselves to a computer is possible, neuroscientists say they have to figure how and where our memories exist.

VIDEO: Are Memories Reliable? (<http://news.discovery.com/videos/are-memories-reliable.htm>)

Two Rats Communicate Brain To Brain

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"It's clearly beyond the capabilities of what we have today," said Ted Berger, a neuroscientist at the University of So approach replicating the properties of the brain and replicating the properties of particular brains. In a couple of dec

Berger and Sam Deadwyler at Wake Forest University are doing experiments in which they are actually [inserting mem](http://news.discovery.com/tech/biotechnology/two-rats-communicate-brain-to-brain-130227.htm) [two-rats-communicate-brain-to-brain-130227.htm](http://news.discovery.com/tech/biotechnology/two-rats-communicate-brain-to-brain-130227.htm) by stimulating certain parts of the hippocampus with electrical

"What we can see is there are particular patterns and activity in space and time that are specific to the object," Berg there's a particular space-time activity that is different. We've been able to find for the first time these memory pat

When Will Humans Upload Their Brains To Computers?

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Berger said they have also been able to disable the hippocampus, in effect blocking the memory, and then electronic

We've already shown that the strategy will work in monkeys and in rats," he said. "I do think we can do this in huma

At the Massachusetts Institute of Technology, Ed Boyden leads the Synthetic Neurobiology Group, which is building ne

In recent year, Boyden and his colleagues have found a protein in algae that is able to convert light into electricity. W allows them to be triggered by light. The patterns can they be translated into electrical impulses and then mapped - 1

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