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Can we build a complete wiring diagram of the human brain?

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One of the leaders in the emerging science of connectomics, Seung believes that mapping the connectome could provide some fundamental answers to understanding our memory, personality, even mental disorders. But this is a gargantuan quest; we're talking 100 billion neurons in a human brain. We spoke with Seung about his book, "Connectome: How the Brain's Wiring Makes Us Who We Are," and what he calls "a turning point in human history."

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A connectome is the sum total of connections between neurons in a brain. Sebastian Seung argues in his book that one's connectome is the essence of an individual. A connectome contains one's memories and personality, and defines who we are. The idea is that at birth, one's neurons are connected with each another at random.

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The connectome presents an intriguing third option: the mind is not the brain per se, but rather the way that the neurons are connected. Sebastian Seung presents this using everyday language, relating the effects to everyday occurrences and meaning. Your genes determine how your body grows from an egg to an adult.

He explains, "a connectome is the totality of connections between the neurons in a nervous system. The term, like 'genome,' implies completeness. A connectome is not one connection, or even many. It is ALL of them. In principle, your brain could also be summarized by a diagram that is like the worm's, though much more complex.

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The connectome theory is also less deterministic. There is reason to believe that we shape our own connectomes by the actions we take, even by the things we think. Brain wiring may make us who we are, but we play an important role in wiring up our brains. To restate the theory more simply: You are more than your genes.

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