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The triune brain is a model of the evolution of the vertebrate forebrain and behavior, proposed by the American physician and neuroscientist Paul D. MacLean. MacLean originally formulated his model in the 1960s and propounded it at length in his 1990 book *The Triune Brain in Evolution*. The triune brain consists of the reptilian complex, the paleomammalian complex, and the neomammalian complex, viewed each as independently conscious, and as structures sequentially added to the forebrain in the co

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His early contributions to the understanding of the brain lie most notably in the area that he has named the limbic system. For the past thirty years, he has dedicated his research efforts at the NIMH Laboratory of Brain Evolution and Behavior, which he heads, to the promotion of his theory of the triune nature of the modern mammalian brain.

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Reptilian Brain The Limbic System (Paleomammalian brain) The Neocortex (Neomammalian brain) Links The neurologist Paul MacLean has proposed that our skull holds not one brain, but three, each representing a distinct evolutionary stratum that has formed upon the older layer before it, like an archaeological site :He calls it the "triune brain."

## ~~The Triune Brain—McGill University~~

According to MacLean, the hierarchical organization of the human brain represents the gradual acquisition of the brain structures through evolution. The triune brain model suggests the basal ganglia was acquired first, which is thought to be in charge of our primal instincts, followed by the limbic system, which is in charge of our emotions or affective system, then the neocortex, which is thought to be responsible for rational or objective thought.

## ~~The Concept of the "Triune Brain" | Interaction Design ...~~

This is MacLean's major work on the evolutionary development of the human brain. In its evolution the human forebrain expands along the lines of three basic formations that anatomical and biochemically reflect an ancestral relationship, respectively, to reptiles, early mammals, and late mammals. MacLean describes this as the Triune Brain.

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7.1. Reaction to The Triune Brain in Evolution. It is difficult to imagine a scientist who has embarked on more groundbreaking topics of such profound importance to the human species than Paul MacLean. His work culminated in his publication of The Triune Brain in Evolution: Role in Paleocerebral Functions in 1990 [7].

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He calls it the “triune brain.” MacLean, now the director of the Laboratory of Brain Evolution and Behaviour in Poolesville, Maryland, says that three brains operate like “three interconnected biological computers, [each] with its own special intelligence, its own subjectivity, its own sense of time and space and its own memory” .

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