

A QUICK AND SIMPLE WAY TO THINK ABOUT THE BRAIN

Paul D. MacLean, MD, developed the concept of the triune brain in *The Triune Brain in Evolution: Role in Paleocerebral Functions*. Rick Hanson, PhD, author of *Hardwiring Happiness: The New Brain Science of Contentment, Calm, and Confidence* built on this original concept.

In many ways, the brain is considered the most complex of human organs. But complex doesn't have to mean complicated. Especially when we're trying to explain the brain's different but necessary functions.

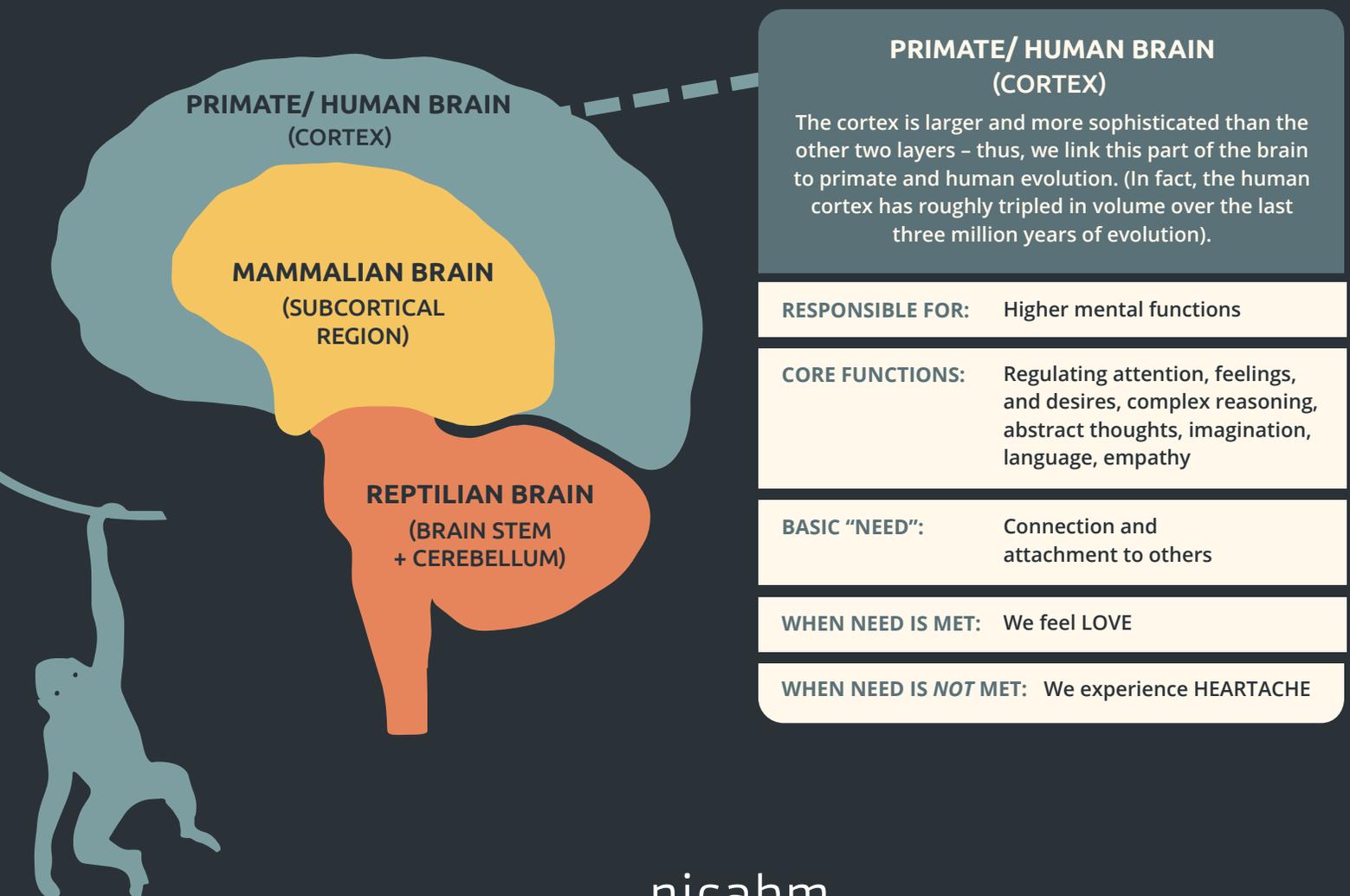
Our brain structure can be divided into three layers – the brain stem, the subcortical region, and the cortex. And each layer can be loosely associated with the reptile, mammal, and primate/human phases of evolution, respectively.

So, if you think about it, it's almost as we're carrying a little lizard, a little mouse, and a little monkey inside our brains.

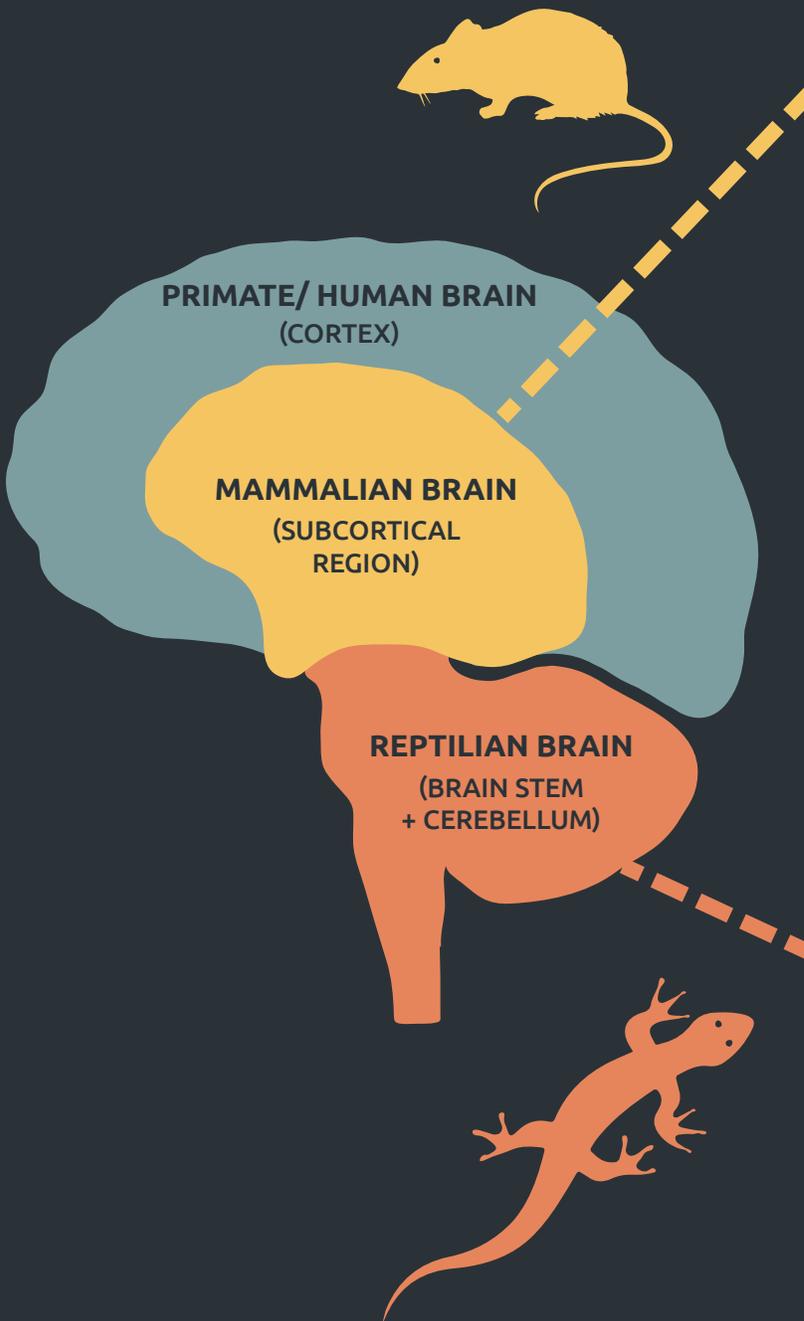
And as the brain evolved, so did its capacity to meet the three fundamental needs of any animal . . .

Safety, satisfaction, and connection.

Here's a visual . . .



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MAMMALIAN BRAIN (SUBCORTICAL REGION)

The subcortical region is associated with mammalian evolution – we might think of it as the little mouse part of the brain.

RESPONSIBLE FOR: Feelings and memory formation

CORE FUNCTIONS: Emotions, learning and memory, reward/motivation

BASIC “NEED”: Satisfaction and approaching rewards

WHEN NEED IS MET: We feel CONTENTMENT

WHEN NEED IS NOT MET: We experience FRUSTRATION

REPTILIAN BRAIN (BRAIN STEM + CEREBELLUM)

The brain stem is the most ancient part of the brain. This brain structure shares a similar function to the brain found in simple creatures, like crabs or lizards.

RESPONSIBLE FOR: Survival and maintenance

CORE FUNCTIONS: Regulating heartbeat, breathing, and other vital organs

BASIC “NEED”: Safety and avoiding harm

WHEN NEED IS MET: We feel PEACE

WHEN NEED IS NOT MET: We experience FEAR

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And as the brain evolved, so did its capacity to meet the three fundamental needs of any animal . . . **Safety**, **satisfaction**, and **connection**.

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