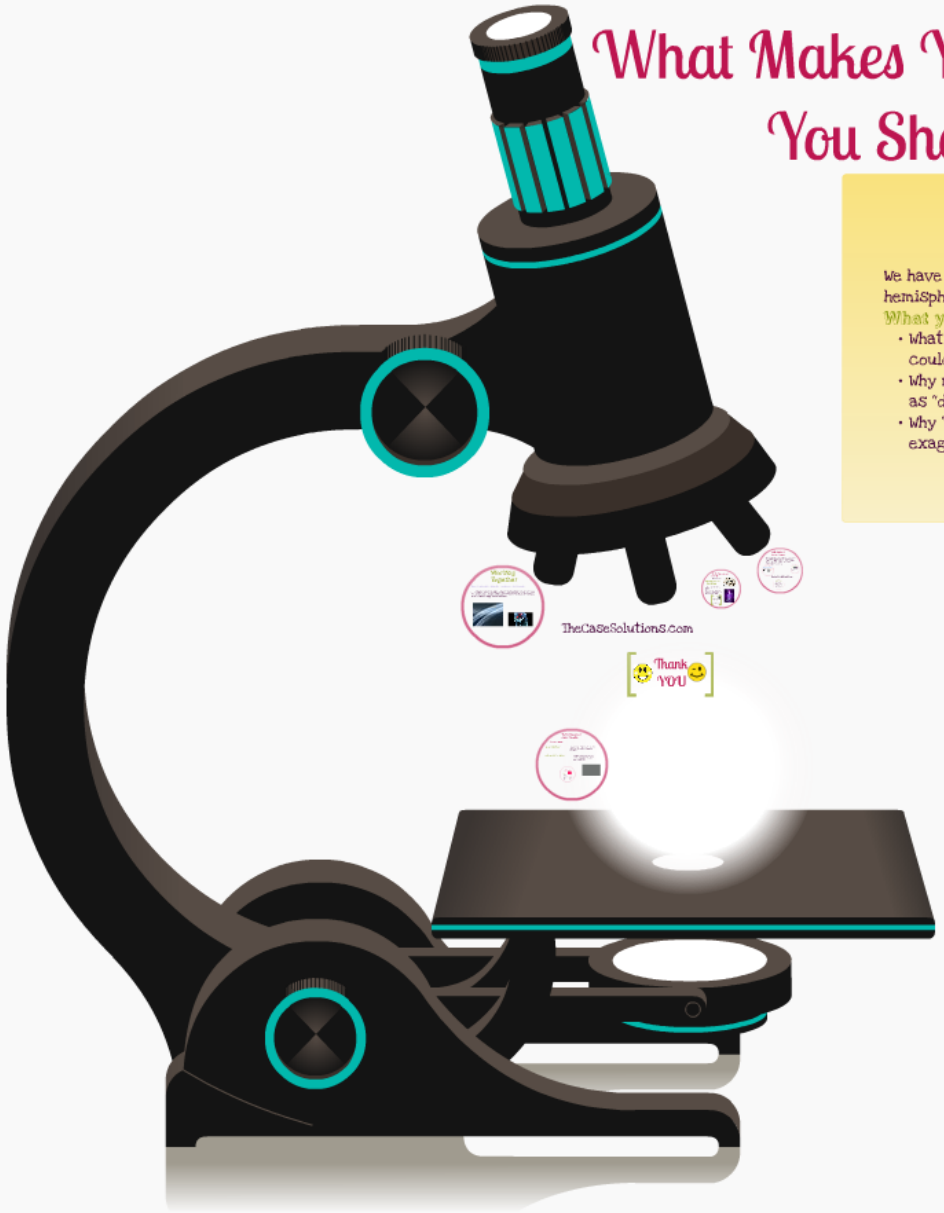
# What Makes Your Brain Happy and Why You Should Do the Opposite




## The Cerebrum

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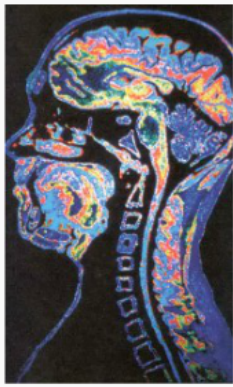
We have seen that the cerebrum is divided into two hemispheres that control opposite sides of the body.

What you'll learn:

- What would happen if the the two cerebral hemispheres could not communicate with each other.
- Why researchers often refer to the left hemispheres as "dominant"
- Why "left-brainedness" and "right-brainedness" are exaggerations.



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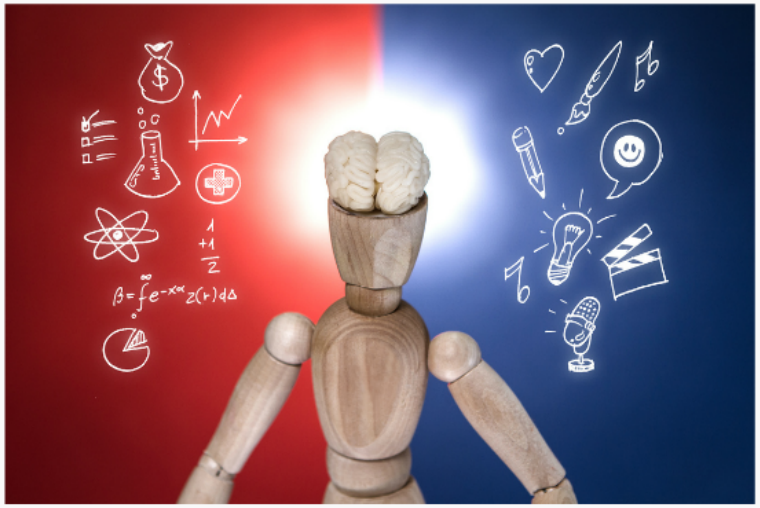

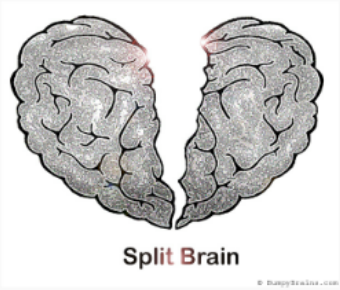

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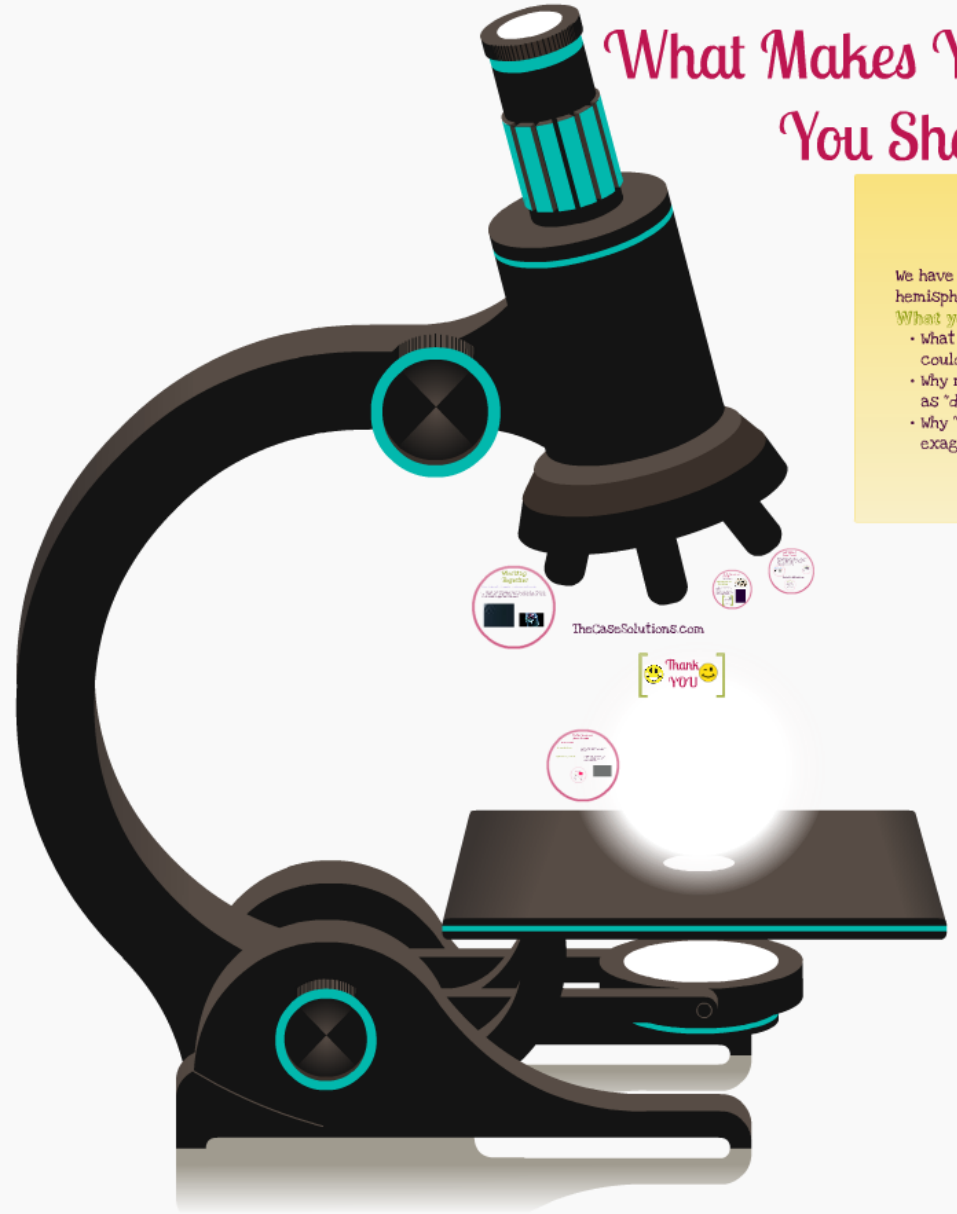


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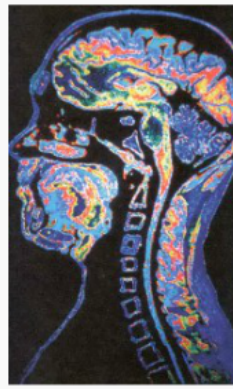

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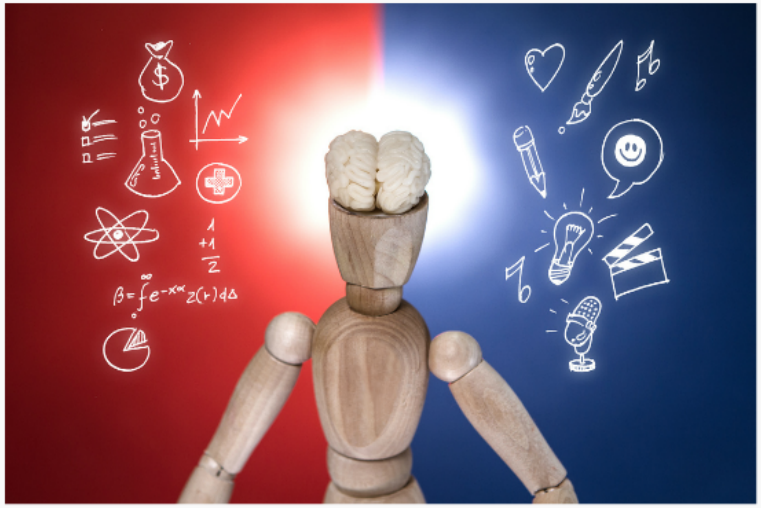

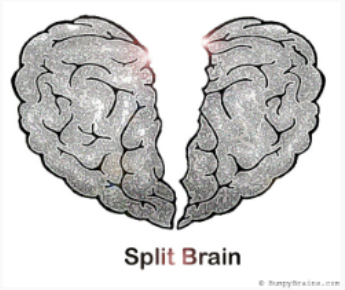

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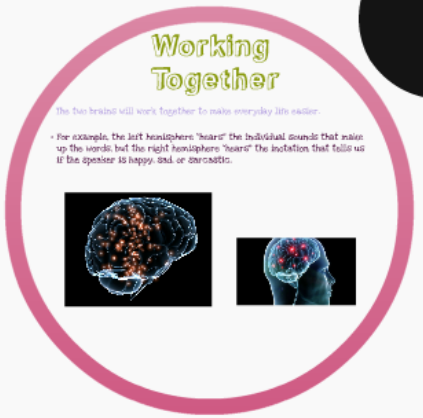




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Thank YOU

# The Two Hemispheres of the Brain

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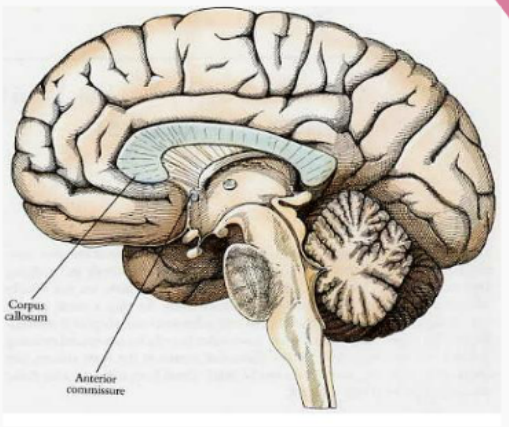
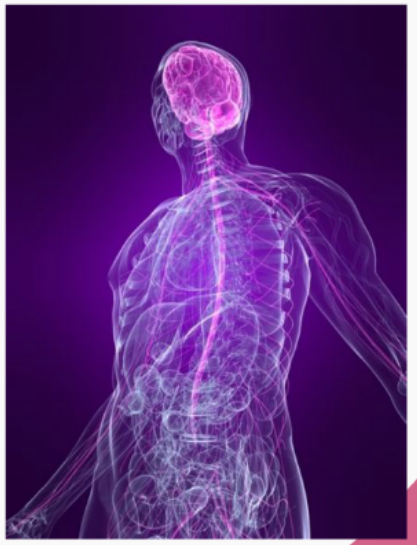
## Two parts to the Cerebrum




1. Both control separate sides of the body.

2. Hemispheric specialization is especially apparent in patients wh have suffered brain damage.



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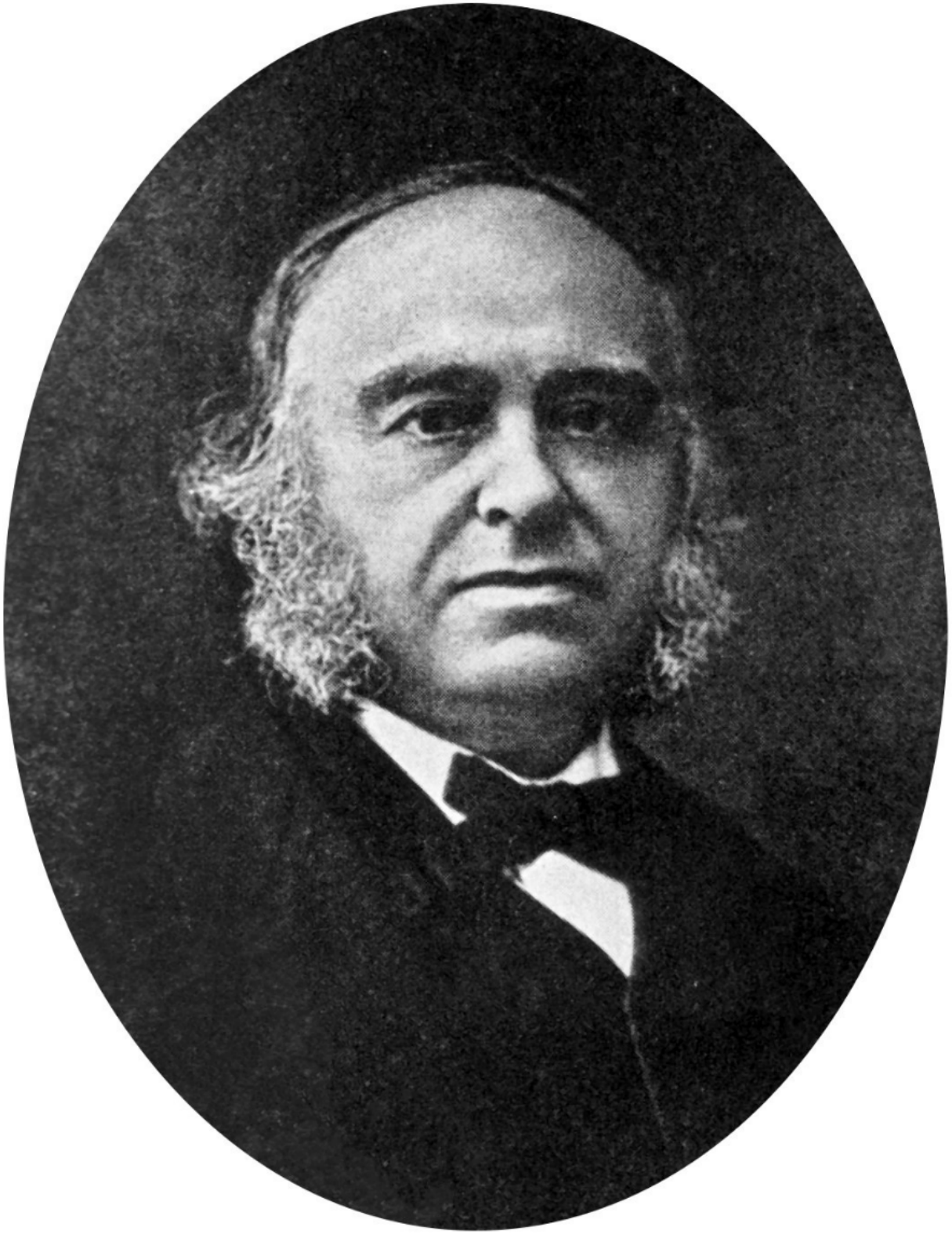
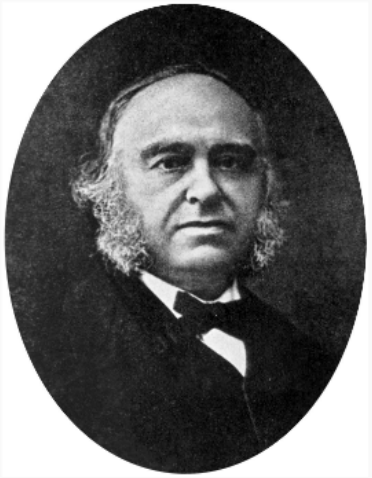


# The Left & Right

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- Made first observation in 1861
- Documented left/right hemisphere damage through behavioral/cognitive difficulties

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# Split Brains: A House Divided

In a normal brain, the two hemispheres of the cortex communicate with one another across the corpus callosum (the bundle of fibers that connects them). Whatever happens on one side of the brain is transferred to the other side.

### Experimental Research

What would happen if the two sides were cut off from each other?

Ronald E. Myers & Roger W. Sperry

Took the first steps toward answering the question.

### 1960's

Team of surgeons cut corpus callosum in patient with severe epilepsy.

After Surgery
- Seizures were reduced
- Walk
- Talk
- Lead fairly normal lives

- Connections in undivided deeper part of brain kept body movement/other functions normal
- Two functioning hemispheres each doing their own job

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### Visual Pathways

- Each hemisphere receives info from the eyes about the opposite side of the visual field.
- Half the axons in each optic nerve cross over to the opposite side of the brain
- "Split Brain" prevents that communication