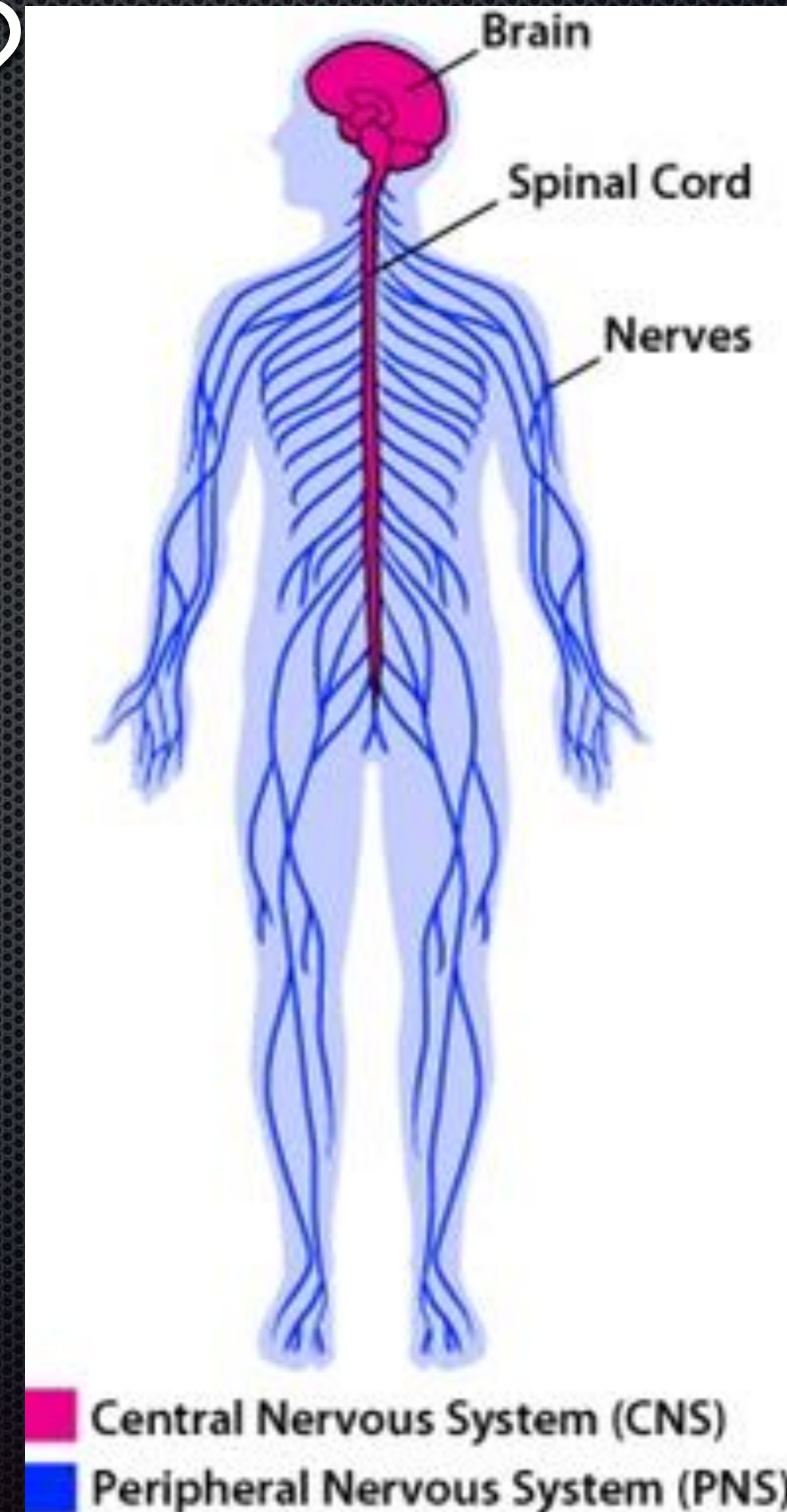


The Nervous System

By Jeffrey

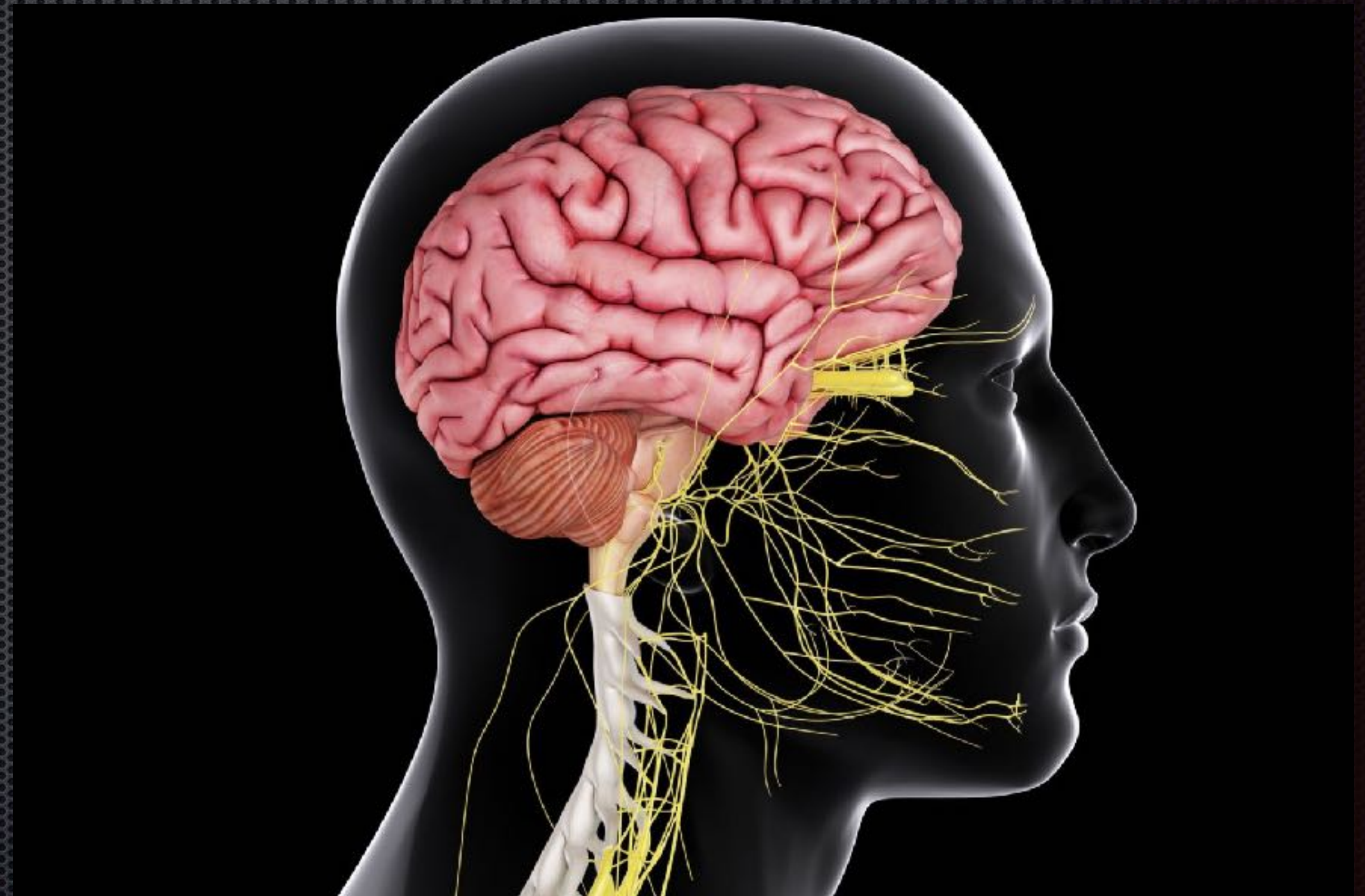
What Is The Nervous System And What Are Its Parts Like?

- ✦ The nervous system includes the brain, spinal cord and a huge network of nerves.
- ✦ Your brain contains an intricate network of nerves cells.
- ✦ When a nerve cell is hit, it generates a electrical impulse and it keeps passing to the other cells all the way to the brain.
- ✦ If one nerve cell is too far from another nerve cell, neurotransmitters come and helps the nerve cell transport the electrical impulse.



Important Facts About The Nervous System

- ✦ The nervous system is separated to two main groups, one is the Automatic nervous system which controls ordinary things such as your heart beating , the other one is called the somatic nervous system which controls voluntary actions like eating an ice-cream cone or petting your cat.



If you touch something hot your spinal cord immediately pulls your finger up.
The nervous system is the control center of the whole body, without it you would die. It controls your movements, senses, thoughts, and feelings.

The nerve cells body is called soma
Processes are the things that emerge from the soma. They transmit messages around the body. That's why they need to be much longer than the other cells.

A cell's dendrites receive impulses passed from other nerve cells or neuron.

A cell's axon carries the impulses away from the cell body.



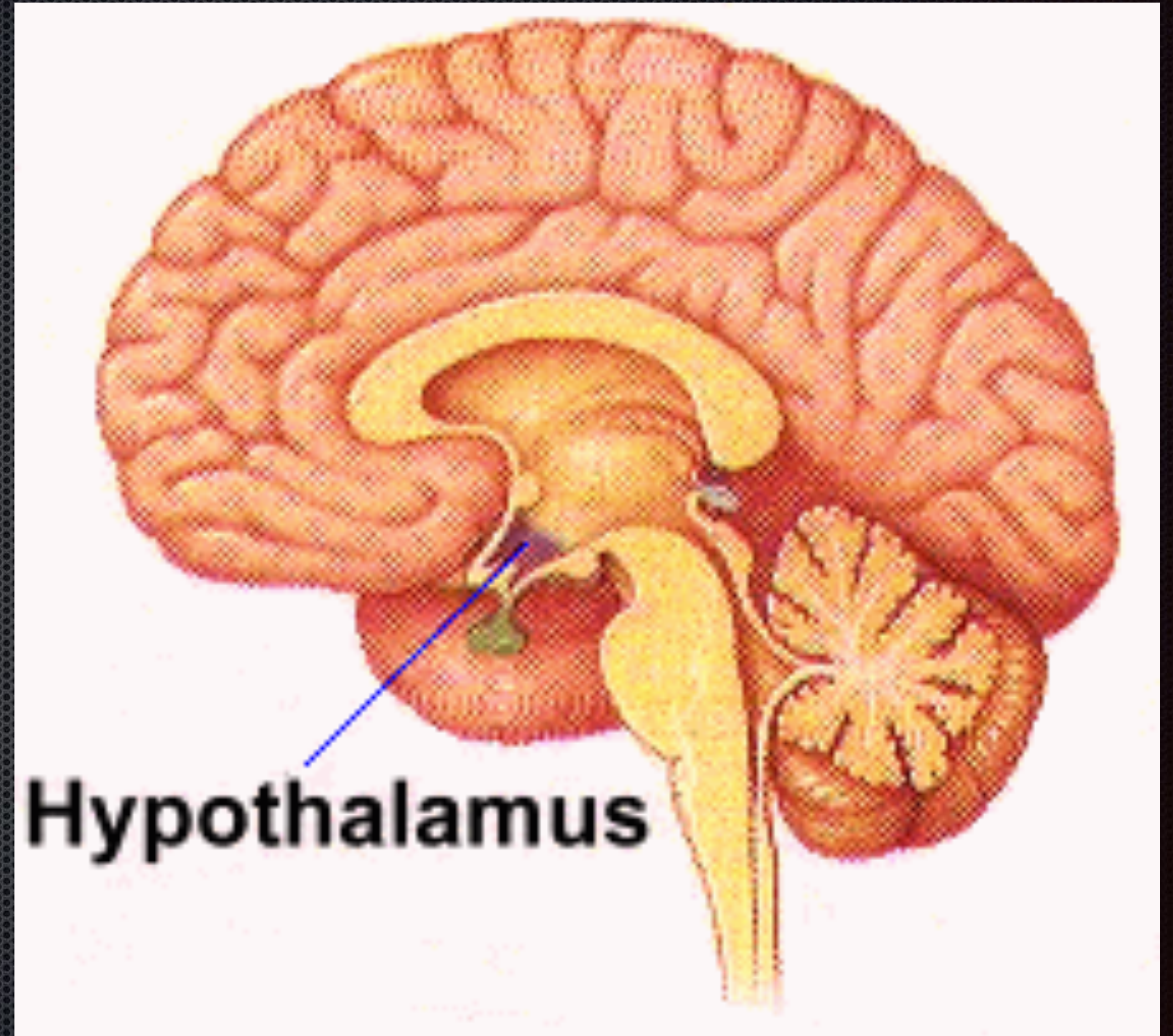
- ✦ The myelin sheath is the thing that speeds up transmission sometimes as much as 90m/sec.
- ✦ The neurotransmitters are released into the synapse.
- ✦ The human brain is much more complex than any other animal's brain.
- ✦ The brain uses up 20% of the oxygen we inhale.

The Parts Of The Brain

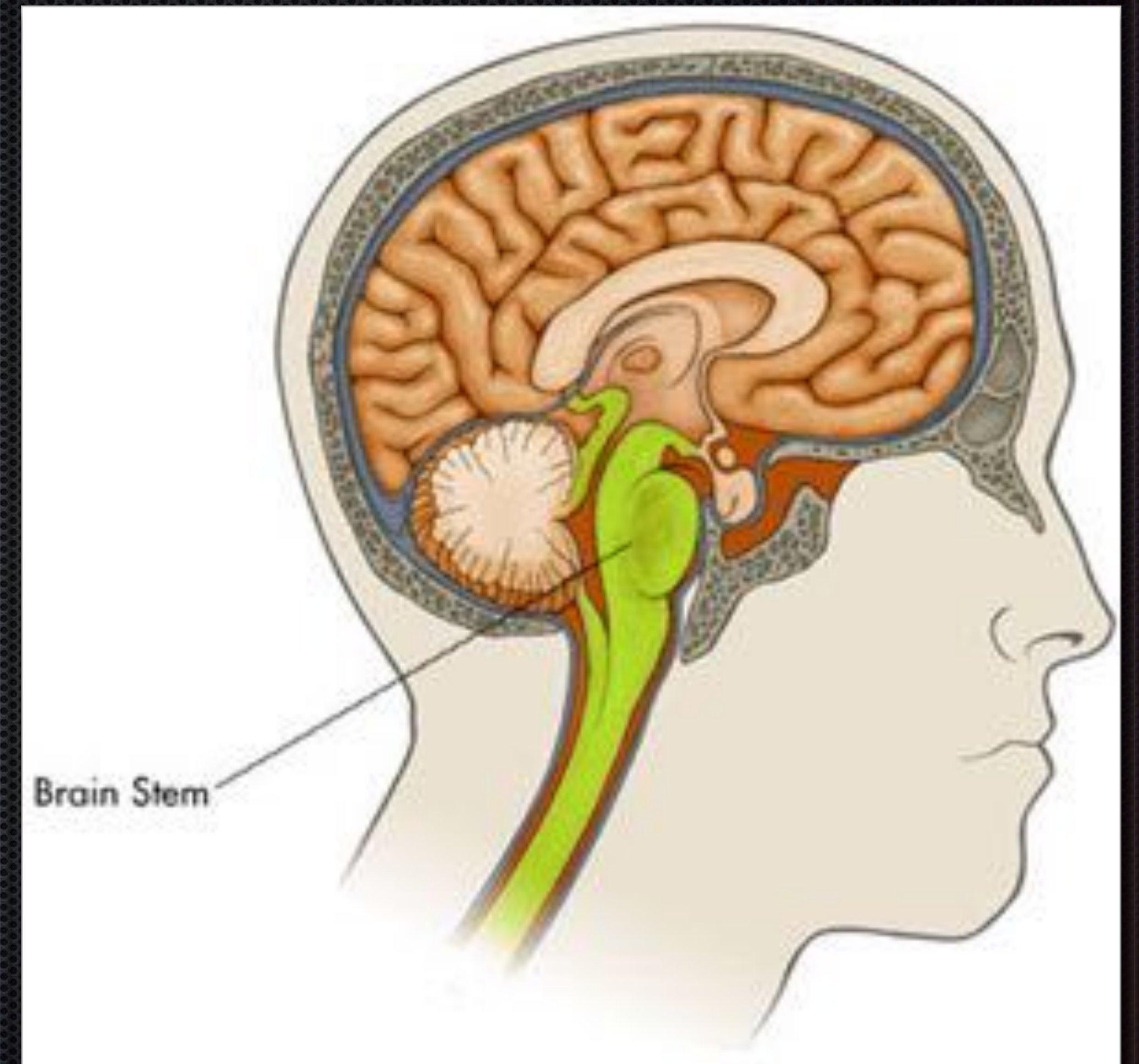
- ✦ The brain is made of three main parts, the cerebrum, the cerebellum, and the brain stem.
- ✦ The cerebrum is the part where we think.
- ✦ The cerebellum's frontal lobe controls reading and writing.
- ✦ The temporal lobes are filled with memories.



- ✦ Language and math skills are controlled in the left brain and creative tasks are controlled in the right brain.
- ✦ The limbic system in your brain contains your emotions.
- ✦ Your hypothalamus controls your body temperature and food intake.

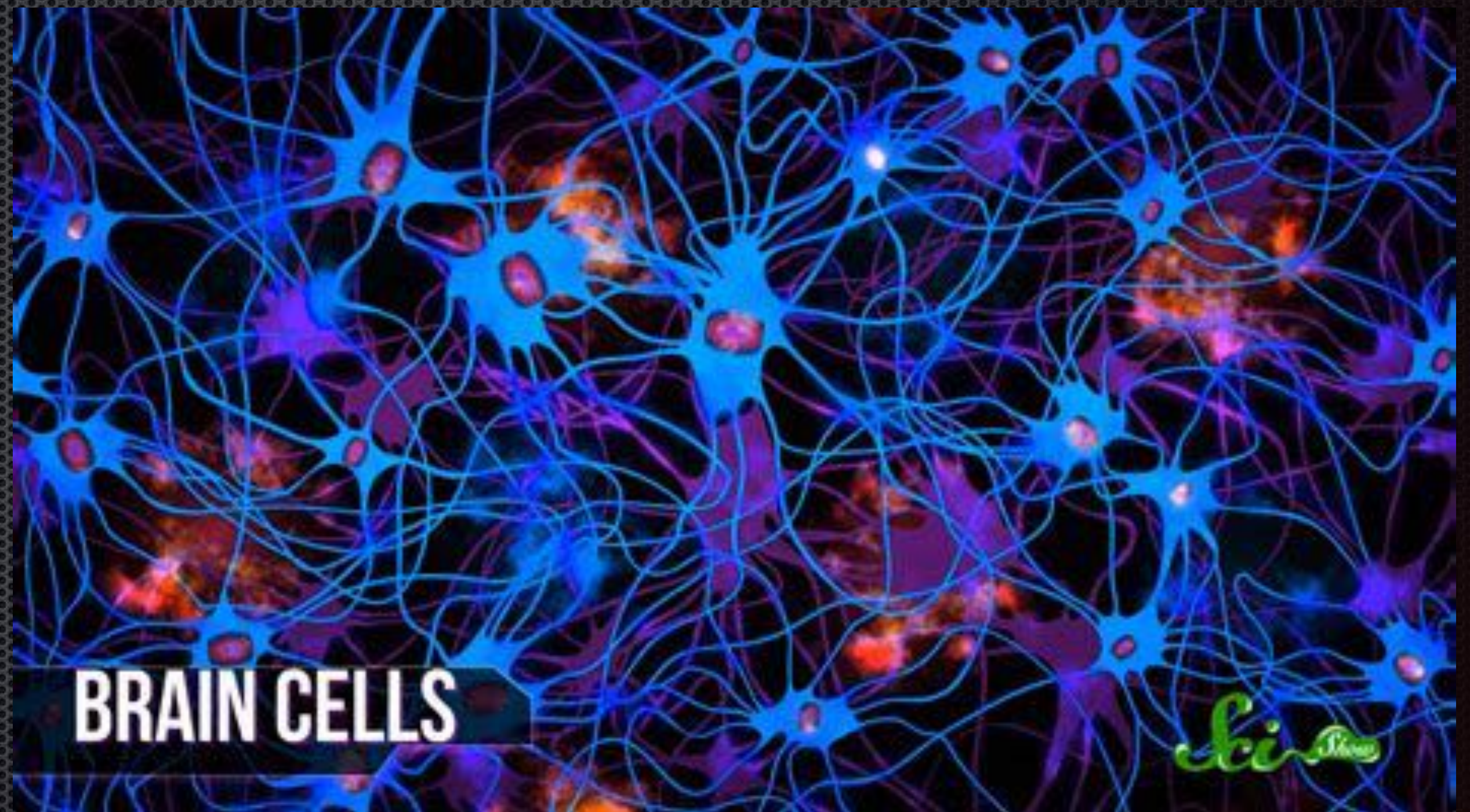


- ✦ The brain stem monitors and controls all the automatic things like breathing and your heart beating.
- ✦ If you didn't have the nervous system you will die immediately because you cannot breathe and your heart won't beat. That's why scientists say when you die because your brain is dead. It is called brain dead.

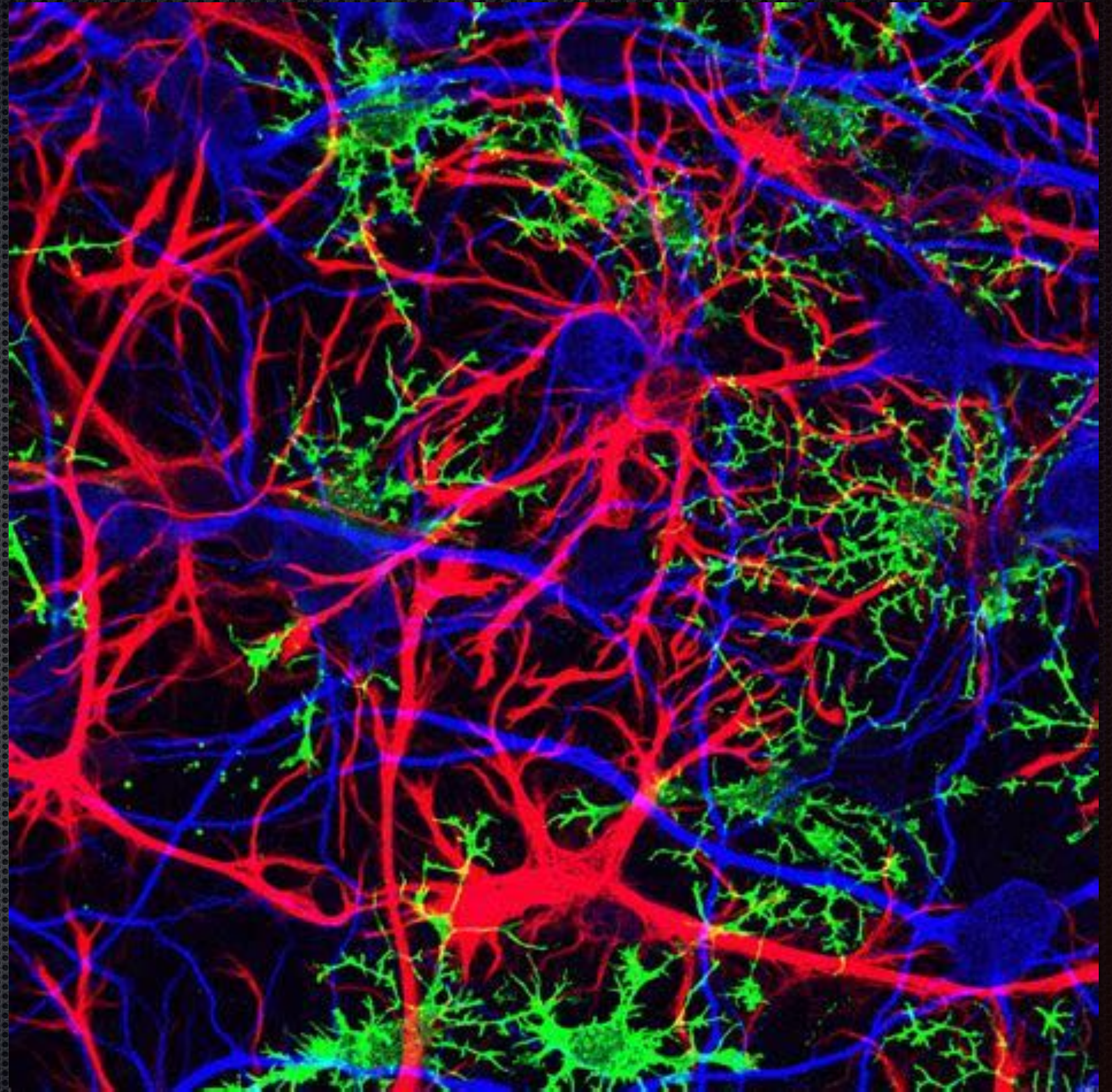


Amazing Facts About The Nervous system

- ✦ The brain sucks about 750ml of blood every minute, that is why the brain is the hottest part of your body.
- ✦ The brain weighs 1.3 kg, lighter than your blood, skin, and bones.
- ✦ The brain has over 100 billion nerve cells or neurons.



- ✦ The spinal cord is about 45cm long and about as thick as a thumb.
- ✦ A body that hasn't stop growing grows about 2,000 neurons a day.
- ✦ When you reach 25 you will loose 12000 nerve cells every day.



Nervous System



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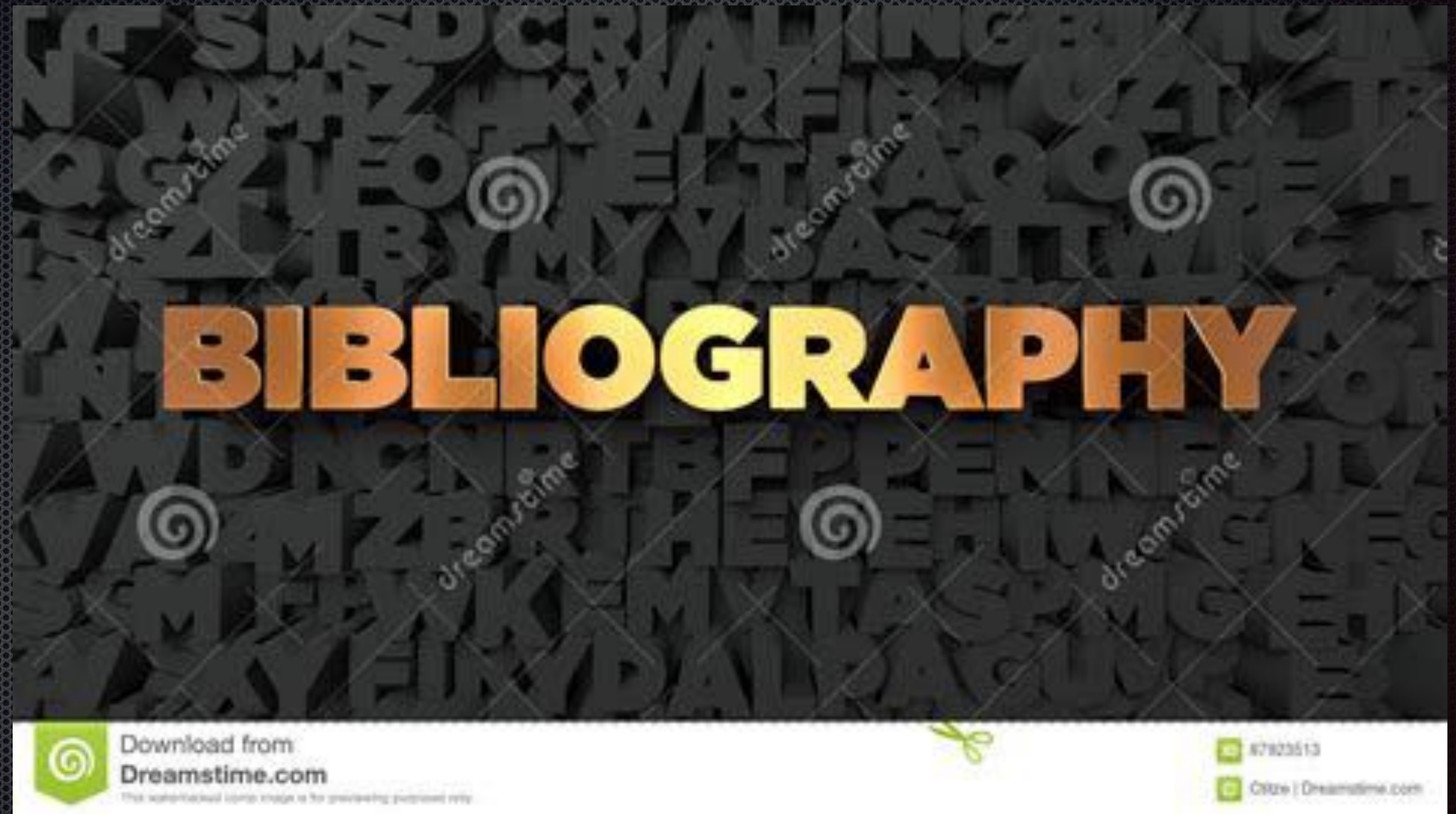


Glossary

- Spinal cord: The bone that is in the middle of your body that is part of your nervous system.
- Nerve cells: They are the cells in the nervous system that transports the electrical impulses throughout your body.
- Brain: The control center of the nervous system, the electrical impulses are sent here.

Bibliography:

- ✦ BrainPOP brain
- ✦ BrainPOP nervous system
- ✦ BrainPOP spinal cord
- ✦ The Bulging brain
- ✦ BrainPOP nerves



Any questions you don't understand about the things we learned today?

Jeffrey



BYE

