

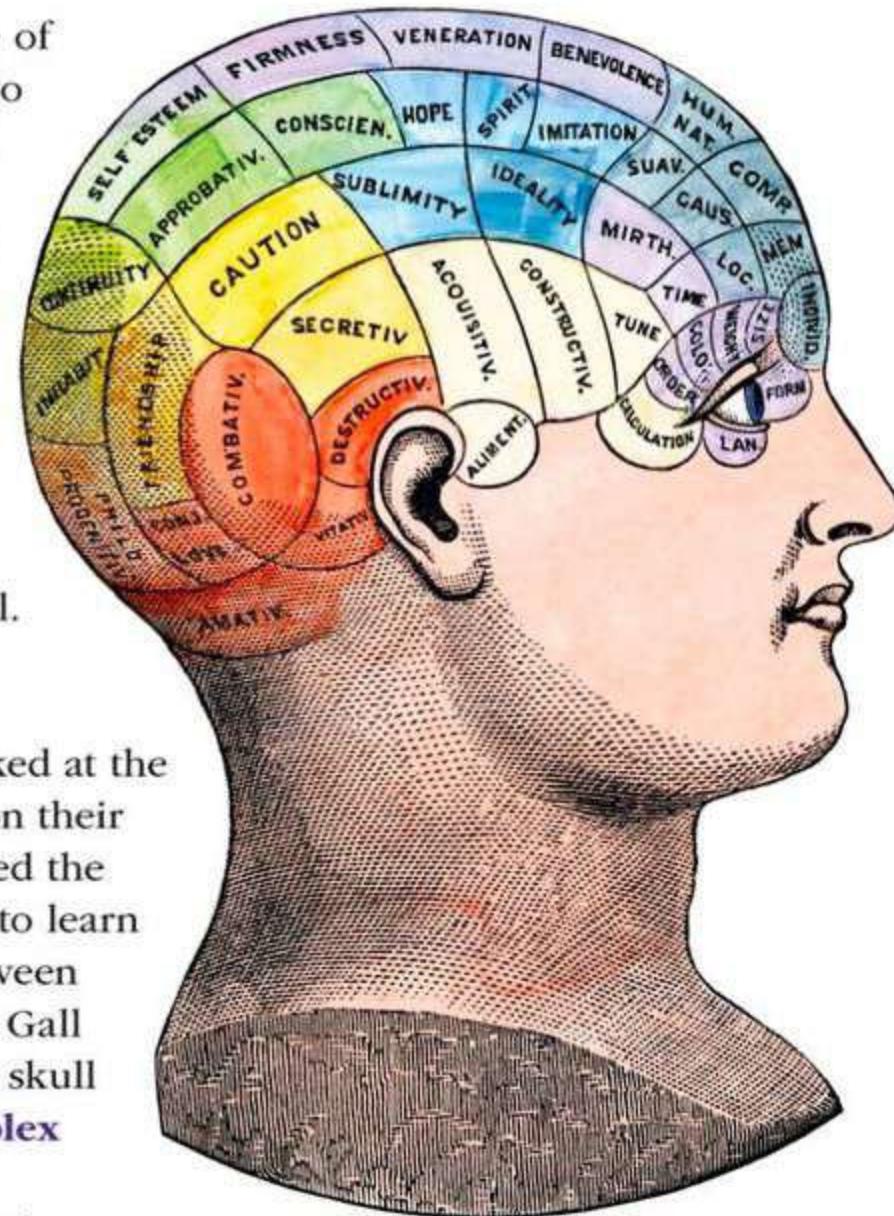
# An Early Brain Map

Throughout history, human **behavior** seemed **impossible** to understand. Teachers **wondered** why some students were good at math but other students were not. People **wondered** why one neighbor was friendly but another was **unfriendly**. Parents **wondered** why one child **behaved** and another caused trouble. In the early 19th century, a German doctor thought he could answer these **complex** questions. His name was Franz Joseph Gall.

## A NEW THEORY

Dr. Gall believed that the brain was the source of **human behavior**. He thought it was **possible** to understand human **behavior** if we understood how the brain **functioned**. He believed that each area of the brain was **linked** to a certain **behavior**, such as bravery. Furthermore, Dr. Gall **wondered** if the **functions** of the brain **created** bumps on a person's skull (the skull is the bone around a person's head). If so, a doctor could learn about a person's **behavior** by **analyzing** these bumps. He could **analyze** the location and size of the bumps on the skull. The bumps would tell the doctor about the person's **behavior**.

Dr. Gall began to test this idea. First he looked at the heads of many people. He **located** the bumps on their skulls. He measured these bumps. Then he asked the people questions about themselves. He wanted to learn about their **behavior**. He looked for a **link** between people's bumps and their **behavior**. Finally, Dr. Gall thought he could **link** every bump on a human skull to a certain brain **function**. He **created** a **complex** map of an **average** human head. The map had 27 areas. He labeled each of the areas with a brain **function**. Some of these **functions** were friendship, music, numbers, a love of children, bravery, humor, and memory. Dr. Gall named this mapping of the human skull "phrenology."



A phrenology "map"