Cognitive Psychology

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Introduction to History, Methods, and Paradigms

- Cognitive psychologists → to find ways to examine the key mechanisms underlying the complex cognitive processes.
 - 1. Design experiments with sufficient experimental control
 - 2. ensure laboratory tests preserve the essential workings of the processes under study
- Cognitive psychologists are interested in how people perceive, attend, remember, and categorize (recognize patterns) information, as well as how they communicate (use language) and make decisions.

Antecedents of Cognitive Psychology

- Two central philosophical traditions concerning the nature of the human mind (17th and 18th century)
 - Empiricism:(经验主义)
 - * Supported by David Locke, John Hume and Stuart Mill.
 - \ast The tenet that knowledge comes from an individual's own experience.
 - * Born (blank state) \rightarrow all the cognitive abilities and knowledge is thought to be acquired through their interactions with their environment.
 - Nativism: (先天论)
 - * Emphasizes role of biological factors in determining one's cognitive abilities

- * Attribute individual cognitive differences to innate abilities
- * Argue that many cognitive abilities and the processes that underlie them are hardwired in the brain and thus difficult to modify with experience

• Wilhelm Wundt

- Primary goal: to discover the elemental components of the human mind building blocks to conscious experience.
- In essence (本质上), he wants to create a table of mental elements (similar to periodic table).
- Once identified mental elements, psychologists can determine how these units combine to produce complex mental phenomena.
- Structuralism (构造主义): this search for key components for building blocks of human mind is referred to as structuralism.