# Piaget's Theory

English Teaching & Educational Psychology Compiled by Doris S.

## Outline

- Cognitive Psychology
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- Definitions
- Piaget's Stages of Cognitive Development
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# Cognitive Psychology

• Cognitive science emphasis on facilitating learners to process knowledge.

• Cognitive psychology studies perception, memory, attention, pattern recognition, problem solving, the psychology of language, cognitive development, etc.( Neisser, 1967)

# Cognitive Revolution

#### The Beginning of the Cognitive revolution

- Typical human memory system involves the development of distinctive cognitive structures or schemas. (Frederick Bartlett)
- Indentify the various effects of <u>past</u> experiences on perception.

## Cognitive Lab

http://cognitivelabs.com/

# Experiencing First hand

• Read Chapter 2: page 28

## Piaget's Basic Assumptions

6 assumptions

His theory is also related to Constructivism

#### **Definitions**

- Schemas
  - Also called "frames" or "scripts"
  - Describe as "data structures" that represent the generic concepts underlying objects, events, and actions.

Assimilation vs. accommodation

# Piaget's Stages

The adolescent can reason abstractly and think in hypothetical terms.

#### Formal operational (12 years-adult)

The child can think logically about concrete objects and can thus add and subtract. The child also understands conservation.

#### Concrete operational (7-12 years)

The child uses symbols (words and images) to represent objects but does not reason logically. The child also has the ability to pretend. During this stage, the child is egocentric.

#### Preoperational (2–6 years)

The infant explores the world through direct sensory and motor contact. Object permanence and separation anxiety develop during this stage.

Sensorimotor (0-2 years)

Source: https://www.pinterest.com/pin/207728601538505359/

# ACTIVITY TIME: YOUR TURN TO TELL US...



## Reference

 Ormrod, J. E., Anderman, E. M., & Anderman, L. (2016). Educational psychology: Developing learners (9th ed.). Upper Saddle River, NJ: Pearson Education.