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HUMCOM1 - IAA2

1. What Is Cognition? Why it is important in interaction design?

Thinking, remembering, learning, daydreaming, decision-making, seeing, reading, talking, writing, and perceiving are all examples of cognition.

2. Explain what are mental models.

Mental models are users who learn about and utilize a system to gain a better grasp of it. The term "metal model" is sometimes used to refer to a mental model..

3. What are the Cognitive processes?

- a. Attention
- b. Perception
- c. Memory
- d. Learning
- e. Reading, speaking and listening
- f. Problem-solving, planning, reasoning and decision-making

4. What are the different design implications?

- a. Design implications for attention
- -Context: Make information salient when it needs to be attended to at a given stage of a task
- -Avoid cluttering visual interfaces with too much information
- b. Design implications for Perception
- -Icons should enable users to distinguish their meaning readily
- -Sounds should be audible and distinguishable
- -Haptic feedback should be used judiciously
- c. Design implications for Memory

- -Reduce cognitive load by avoiding long and complicated procedures for carrying out tasks
- -Design interfaces that promote recognition rather than recall
- -Provide users with various ways of labelling digital information to help them easily identify it again
- d. Design implications for Learning
- -Design interfaces that encourage exploration
- -Design interfaces that constrain and guide learners
- -Dynamically linking concepts and representations can facilitate the learning of complex material
- e. Design implications for Reading, speaking and listening
- -Speech-based menus and instructions should be short
- -Accentuate the intonation of artificially generated speech voices
- -They are harder to understand than human voices
- -Provide opportunities for making text large on a screen
- f. Design implications for Problem-solving, planning, reasoning and decision-making
- -Provide information and help pages that are easy to access for people who wish to understand more about how to carry out an activity more effectively (for example, web searching)
- -Use simple and memorable functions to support rapid decision-making and planning