Introduction to Cognitive Science

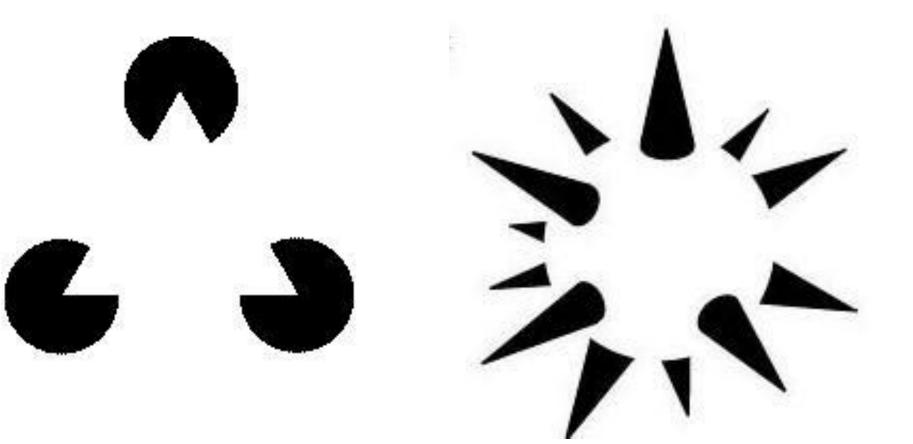
Amitabha Mukerjee

Department of Computer Science, IIT Kanpur

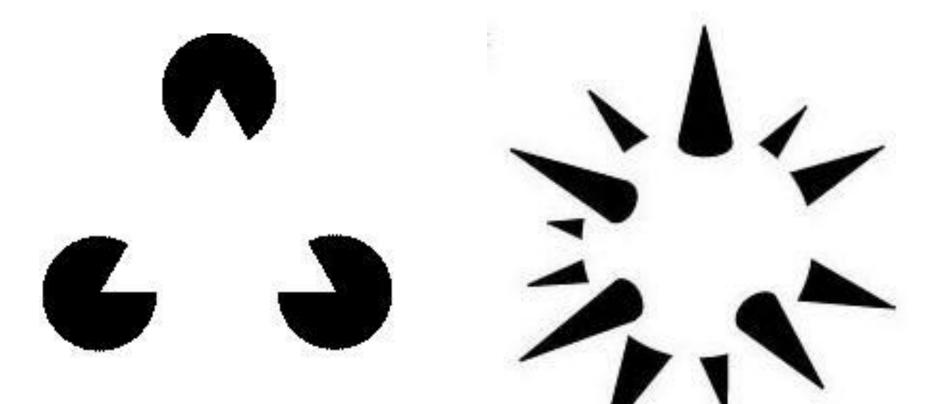
What is cognition



Perception of Wholes



Perception : Figure / Ground



Kanisza triangle

Spiky Sphere (Idesawa)



The horse raced past the barn fell

Bever (1970)

The prime number few

Milne (1982)

gardenpath sentences

Topics

- Processes
 - Perception
 - Reasoning,
 - Memory
 - Language
 - Consciousness
- Development since infancy (Ontogeny)
- Biological basis (Phylogeny)

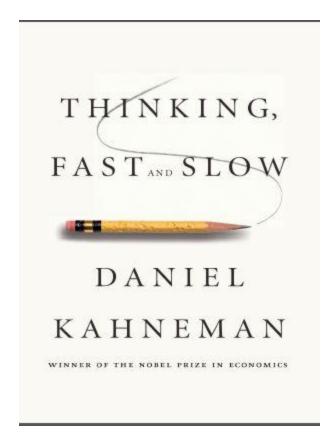


Thinking Fast and Slow

An individual has been described by a neighbor as follows:

"Steve is very shy and withdrawn, invariably helpful but with little interest in people or in the world of reality. A meek and tidy soul, he has a need for order and and structure, and a passion for detail."

Is Steve more likely to be a librarian or a farmer?



Approaches

- Differing views of Cognition
 - Philosophy : Reasoning about it; introspection

