

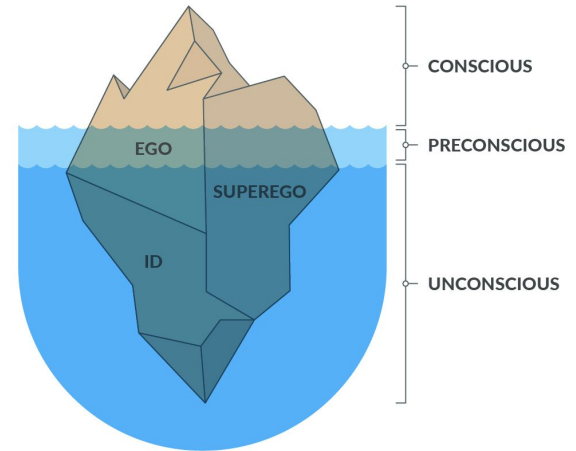
Psychoanalytic connections to quantum and mathematics



What is Psychoanalysis

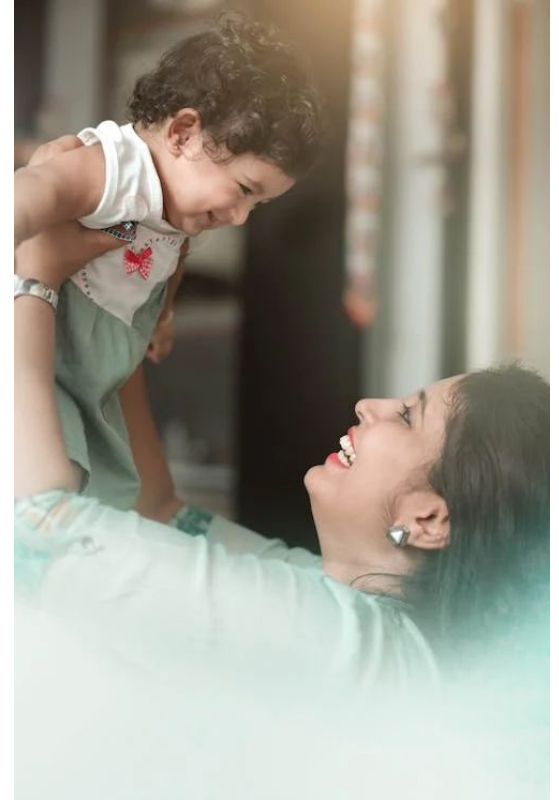
- Psychological theory that considers our unconscious mind and experiences to have a deep influence in our life, trauma, and actions
- Sigmund Freud is known as the father of psychoanalysis
 - His theory considers 3 parts of the mind
 - The Ego
 - The Superego
 - The Id

Freud's Model of the Mind



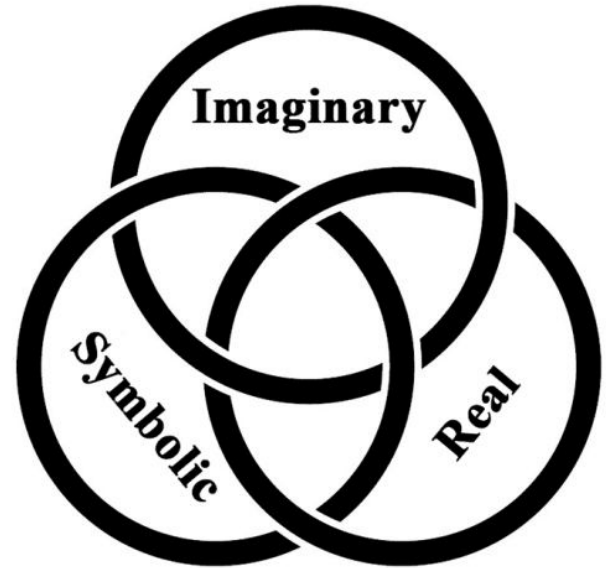
Recognition in Psychoanalysis

- Recognition in psychoanalysis is an inherently mathematical concept
- Consider the concept of relations in mathematics
- For recognition
 - Psychoanalyst Jessica Benjamin defines it in terms of child and mother (or caregiver)
 - First you must recognize that you as an individual are a separate entity who matters in the relationship
 - Then you must recognize that if you recognize someone, they too must recognize you



Lacan's Theory of the Mind

- Jacques Lacan was a French psychoanalyst in the 20th century
- He created his own theory of our psyche that loosely ties to Freud's
 - Real (Id)
 - Imaginary (Ego)
 - Symbolic (Superego)
- He has a main theory of recognition known as the mirror image stage



Lacan's Mirror Image Stage

- Lacan proposed that the imaginary realm of the mind goes through this process known as the mirror image stage
- When a child sees their own reflection (in a mirror) they have a realization
 - This is me as an individual
 - But really, this is a reflection of me, not truly me but others perception of myself
 - More specifically, Lacan observed babies in walkers to showcase their realization that they are currently unable to hold themselves up, but through their reflection they see a future possibility, thus their future self



Mirror Image and Quantum

- In general, children are having a very quantum experience
- Similar to the topic of superposition, children recognize that they are two things at once
 - Themselves and an individual and themselves as a perception of others
 - Their current self as well as their future self

