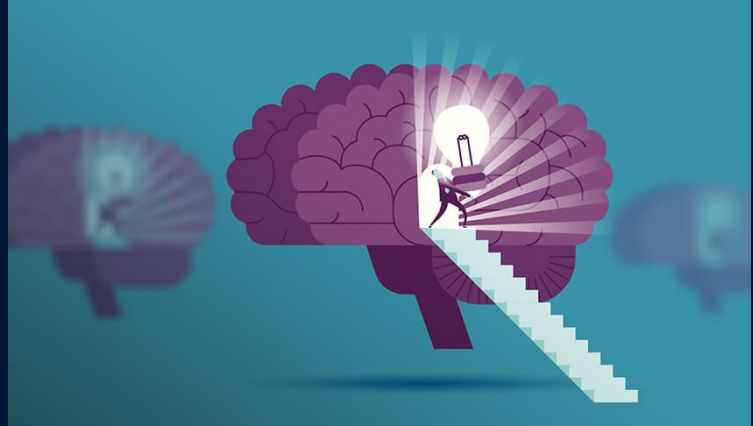# Fuzzy Sets

Presentor: Sean Ulep
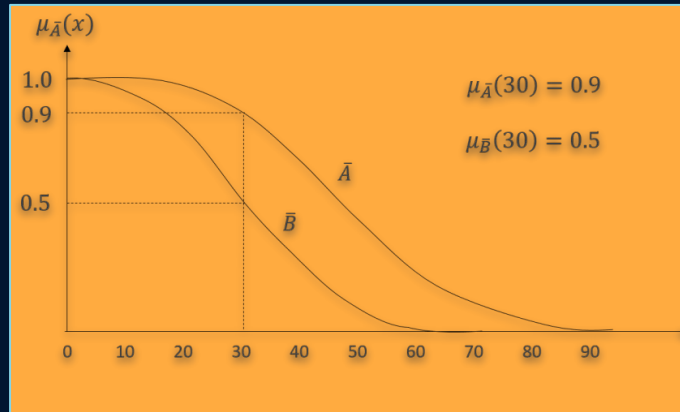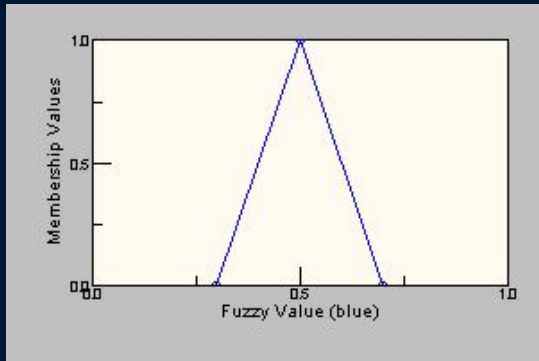
What are Fuzzy Sets?

- Derives from Fuzzy Logic (decision making set)

- Mathematical model of vague or quantitative data = Fuzzy Set

Why are Fuzzy Sets Important?

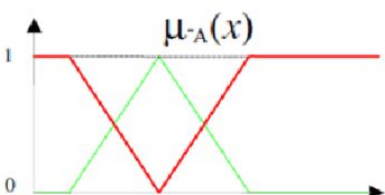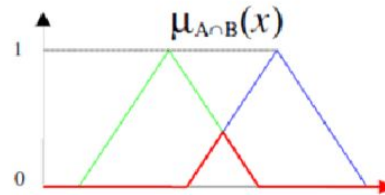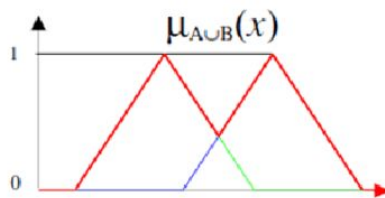No like seriously, why?
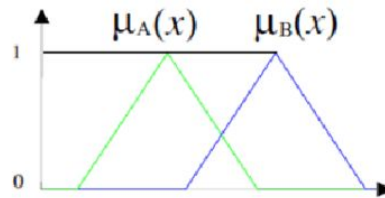
Valid Uses of Fuzzy Sets

Are Fuzzy Sets THAT special?

Union : $\mu_{(A \cap B)}(x) = \max(\mu_{(A)}(x), \mu_{(B)}(x))$

Intersection : $\mu_{(A \cap B)}(x) = \min(\mu_{(A)}(x), \mu_{(B)}(x))$

Complement : $\mu_{(\bar{A})}(x) = 1 - \mu_{(A)}(x)$

Wrapping It All Up!

Works Cited

Codecrucks. "Fuzzy Set Example - Real World Problem Representation." *CodeCrucks*, 8 June 2022,
https://codecrucks.com/real-world-fuzzy-set-example/.

Sci-Hub | Fuzzy Sets. Information and Control, 8(3), 338–353 | 10.1016
…https://sci-hub.se/10.1016/S0019-9958(65)90241-X.