Summary of Introduction to Information Theory Lecture

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# Entropy – Part I

Mainly Information Theory for complex systems: ordered systems with fewer outcomes at system levels have less uncertainty and hence, less information. Disordered systems have more outcomes and hence more uncertainty and more information.

If a state has a low probability of occurring, then they are more surprising, and hence carry more information. Information theory quantifies how they handle informations.

# Shannon Information Content – Part 2