Stats Video Lecture – Disjoint Vs Independent

Week 2, Video 4

1. Two events that are **disjoint** cannot happen at the same time (mutually exclusive)
   1. P(AandB) = 0
2. Two events that are **independent** if knowing the outcome of one does not inform on the outcome of the other
   1. P(A | B) = 0
3. Disjoint events with nonzero probability are always dependent on each other
   1. if we know that one happened, we know the other cannot have happened
   2. e.g. if a coin toss is tails, we know it cannot be heads