Why

todo

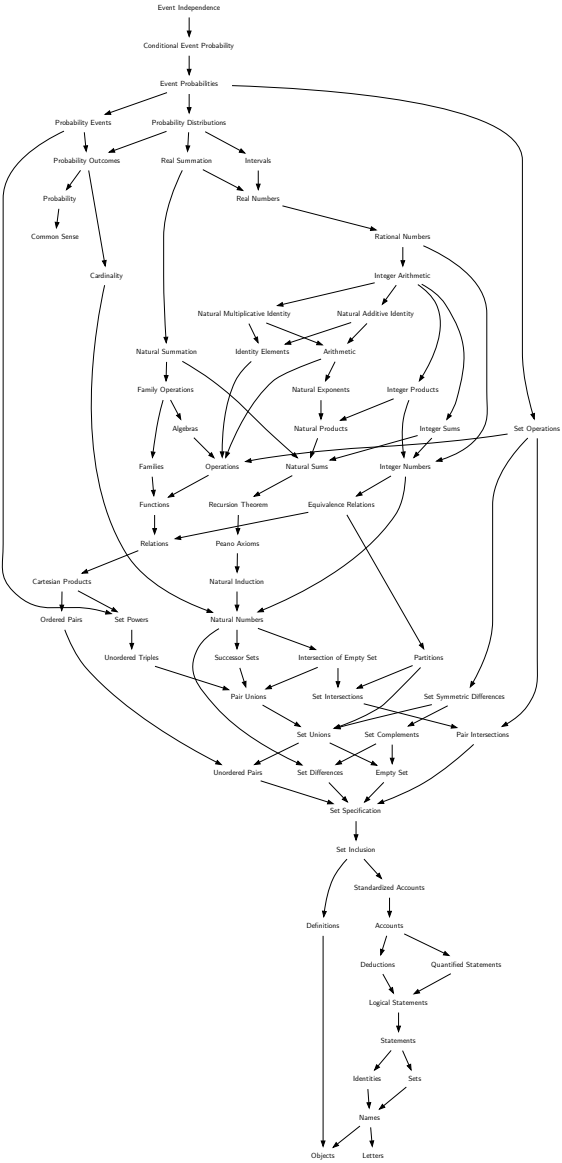
Definition

Two events are *independent* if the probability of their intersection is the product of their respective probabilities.

Definition

Let $\mathbf{P}$ be an event probability function with set of outcomes A. Then the events B and C are independent if

$$\mathbf{P}(B \cap C) = \mathbf{P}(B)\mathbf{P}(C).$$


Event Independence
Conditional Event Probability
Event Probabilities
Probability Events
Probability Distributions
Probability Outcomes
Real Summation
Intervals
Probability
Real Numbers
Common Sense
Rational Numbers
Cardinality
Integer Arithmetic
Natural Multiplicative Identity
Natural Additive Identity
Natural Summation
Identity Elements
Arithmetic
Family Operations
Natural Exponents
Integer Products
Algebras
Natural Products
Integer Sums
Set Operations
Families
Operations
Natural Sums
Integer Numbers
Functions
Recursion Theorem
Equivalence Relations
Relations
Peano Axioms
Cartesian Products
Natural Induction
Ordered Pairs
Set Powers
Natural Numbers
Unordered Triples
Successor Sets
Intersection of Empty Set
Partitions
Pair Unions
Set Intersections
Set Symmetric Differences
Set Unions
Set Complements
Pair Intersections
Unordered Pairs
Set Differences
Empty Set
Set Specification
Set Inclusion
Standardized Accounts
Definitions
Accounts
Deductions
Quantified Statements
Logical Statements
Statements
Identities
Sets
Names
Objects
Letters