

Probability

Rules, Methods, Definitions, Distribution Definitions, Types of Distributions and Computing Using Excel®

Probability Definitions

Event: Collection of one or more possible outcomes (sample points) of doing something (an experiment)

EX: Getting heads when tossing a coin is an event.

Experiment: An activity that produces well-defined outcomes or events; only one outcome is possible for a single attempt in an experiment.

EX: Tossing a coin is an experiment, and getting either heads or tails is the event.

Sample Space: The set of all possible outcomes or events of an experiment.

EX: Sample space for tossing a coin, $S = \{\text{Heads, Tails}\}$

Probability: The numerical measure of the likelihood that an event will occur

- Probability is always measured on a scale of 0 to 1
- An event with probability near 0 means that the event is unlikely to occur
- An event with probability near 1 means that the event is almost certain to occur
- An event with probability of 0.5 means that it is just as likely to occur as it is unlikely to occur
- The sum of the probability of all outcomes of an experiment is 1

EX: The probability of getting heads when tossing a coin is 0.5; the probability of getting tails is also 0.5; the sum of probabilities in the coin-tossing experiment is 1

Mutually Exclusive Events: Events are mutually exclusive when one and only one event can take place at a time

EX: Heads and tails are mutually exclusive events when tossing a coin

Independent Event: An event whose outcome has no effect on later events

Marginal Probability: Marginal or simple probability is the probability of an independent event occurring

Methods of Assigning Probability

Classical Method

When an experiment has n possible outcomes or events, then the probability of each outcome or event = $1/n$

EX: Rolling a die has six possible outcomes, $S = \{1, 2, 3, 4, 5, 6\}$

Probability of "1" appearing on the upward face = $P(1) = 1/6$

$P(1) = P(2) = P(3) = P(4) = P(5) = P(6) = 1/6 = 0.167$

Relative Frequency Method

Probability assigned to an event is how often an event occurred relative to a group of observations; that is, the relative frequency of an event occurring in its probability

EX: Out of 1,000 customers who bought a new car model, 20 customers had some technical problems with it within the first year. The probability that this car model will have problems within the first year is $20/1,000 = 0.02$. Since this is closer to 0 than 1, it is unlikely that a new customer buying this car model will have technical problems.

Subjective Method

Probability of an event occurring is assigned by an individual based on any information available, experience, intuition, or belief, and so varies between different individuals

EX: You may assign a probability of 0.7 that your favorite team will win a specific game, and $P(\text{Win}) = 0.7$, $P(\text{Loss}) = 0.1$, $P(\text{Draw}) = 0.2$

Probability Rules

Complement of an Event

Complement of event A is all events that are not A

Complement of A is represented by A^c

$$P(A) + P(A^c) = 1$$

EX: If an event A is when a customer makes a complaint and 10% of customers complain, that is, $P(A) = 0.10$, then $P(A^c) = 1 - P(A) = 1 - 0.10 = 0.90$; therefore, 90% of customers do not complain

Addition Law

Useful when we have two (or more) events and want to know the probability of at least one of them occurring

For two events A and B , the probability that A or B or both will occur is the probability of the union of the two events A and B (i.e., $A \cup B$)

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

EX: If 80% of students in a class like bananas, 60% like apples, and 55% like both bananas and apples, what is the probability of a student in class liking any one of the fruits or both?

$$P(\text{Bananas}) = 0.80, P(\text{Apples}) = 0.60, \\ P(\text{Bananas} \cap \text{Apples}) = 0.55 \\ P(\text{Bananas} \cup \text{Apples}) = 0.80 + 0.60 - 0.55 = 0.85$$

Addition Law for mutually exclusive events A and B is:
 $P(A \cup B) = P(A) + P(B)$

Because $P(A \cap B) = 0$, since A and B do not have any common sample points (mutually exclusive)

Conditional Probability

Probability of event A given the condition that a related event B has occurred is the conditional probability of A given B and is written as $P(A|B)$

- Conditional probability of A given $B = P(A|B) = P(A \cap B) / P(B)$; $P(B) > 0$
- Conditional probability of B given $A = P(B|A) = P(A \cap B) / P(A)$; $P(A) > 0$
- When A and B are independent events
 $P(A|B) = P(A)$ and $P(B|A) = P(B)$

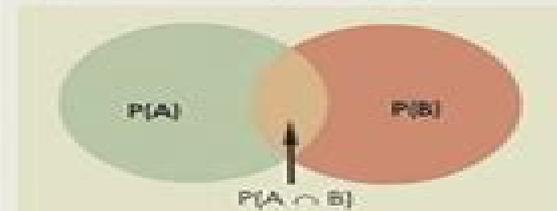
EX: The probability of a U.S. household having Internet access is 0.69, and the probability that a household has an adult with a university degree and Internet access is 0.21. What is the probability that an adult in a U.S. household has a university degree given that the household has Internet access?

$$P(\text{Internet}) = 0.69, \\ P(\text{University degree} \cap \text{Internet}) = 0.21 \\ P(\text{University degree}) = P(\text{University degree} \cap \text{Internet}) / P(\text{Internet}) = 0.69/0.21 = 0.33$$

Multiplication Law

Useful when we have two (or more) events and want to know the probability of both of them occurring

For two events A and B , probability that both A and B will occur is the probability of the intersection of the two events A and B (i.e., $A \cap B$)



The probability of the intersection of two events is called its **joint probability**

$$P(A \cap B) = P(A|B) \times P(B) \text{ and } P(A \cap B) = P(A) \times P(B|A)$$

The joint probability of two or more independent events occurring is the product of their marginal or simple probabilities

When events A and B are independent, their joint probability $P(A \cap B) = P(A) \times P(B)$

EX: Getting a 4 on the first roll of a die followed by a 3 on the second roll

$$P(\text{rolling a 4}) = 1/6 \text{ and } P(\text{rolling a 3}) = 1/6$$

$$P(\text{rolling a 4 on the first roll and a 3 on the second roll}) = 1/6 \times 1/6 = 1/36$$

Bayes' Theorem

Bayes' Theorem is used to revise initial or prior probability of an event by calculating its revised or posterior probability

Bayes' Theorem is applicable when the events for which posterior probabilities are being calculated are both mutually exclusive and collectively exhaustive (i.e., union of events is the entire sample space)

For a mutually exclusive events A_1, A_2, \dots, A_n whose union is the entire sample space,

$$P(A_i|B) = P(A_i) \times P(B|A_i) / [P(A_1) \times P(B|A_1) + P(A_2) \times P(B|A_2) + \dots + P(A_n) \times P(B|A_n)]$$

EX: There are two major brands of a product: Brand X and Brand Y. In the market, 75% of the products are Brand X and 25% are Brand Y. The probability that the Brand X product is defective is 0.05, and the probability that the Brand Y product is defective is 0.10. So for a given defective product, what is the probability that it is Brand X, and what is the probability that it is Brand Y?

- $P(X)$ = Probability that a product is Brand X = 0.75
- $P(Y)$ = Probability that a product is Brand Y = 0.25
- $P(G|X)$ = Probability the product is Good given that it is Brand X = 0.95
- $P(D|X)$ = Probability the product is Defective given that it is Brand X = 0.05
- $P(G|Y)$ = Probability the product is Good given that it is Brand Y = 0.90
- $P(D|Y)$ = Probability the product is Defective given that it is Brand Y = 0.10

The probability tree is:



$P(X|D)$ = Conditional probability that a product is Brand X given that it is defective
 $= P(X) P(D|X) / [P(X) P(D|X) + P(Y) P(D|Y)] = 0.0375 / (0.0375 + 0.0250)$

$P(Y|D)$ = Conditional probability that a product is Brand Y given that it is defective
 $= P(Y) P(D|Y) / [P(X) P(D|X) + P(Y) P(D|Y)] = 0.0250 / (0.0375 + 0.0250)$

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G Orfield



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The Britannica Guide to Statistics and Probability Erik Gregersen Associate Editor, Astronomy and Space Exploration, 2010-08-15 Examines the history of probability and statistics including the geniuses of invention and theory the practical applications of the math and explanations of the major topics **Introduction to Probability and Statistics**, 1975 **Student's Solutions Guide for Introduction to Probability, Statistics, and Random Processes** Hossein Pishro-Nik, 2016-06-20 Since the 2014 publication of Introduction to Probability Statistics and Random Processes many have requested the distribution of solutions to the problems in the textbook This book contains guided solutions to the odd numbered end of chapter problems found in the companion textbook Student s Solutions Guide for Introduction to Probability Statistics and Random Processes has been published to help students better understand the subject and learn the necessary techniques to solve the problems Additional materials such as videos lectures and calculators are available at www.probabilitycourse.com *The Complete Idiot's Guide to Statistics* Robert A. Donnelly, 2004 Offers an introduction to statistics covering concepts and formulas interpretation of data through different types of charts using computer applications to simplify things and more advanced topics **Introduction to Probability and Statistics, Fifth Edition, William Mendenhall** Barbara M. Beaver, Robert J. Beaver, 1979 *Introductory Statistics and Probability* David W. Blakeslee, William G. Chinn, 1971 *Statistics 101* David Borman, 2018-12-18 A comprehensive guide to statistics with information on collecting measuring analyzing and presenting statistical data continuing the popular 101 series Data is everywhere In the age of the internet and social media we re responsible for consuming evaluating and analyzing data on a daily basis From understanding the percentage probability that it will rain later today to evaluating your risk of a health problem or the fluctuations in the stock market statistics impact our lives in a variety of ways and are vital to a variety of careers and fields of practice Unfortunately most statistics text books just make us want to take a snooze but with *Statistics 101* you ll learn the basics of statistics in a way that is both easy to understand and apply From learning the theory of probability and different kinds of distribution concepts to identifying data patterns and graphing and presenting precise findings this essential guide can help turn statistical math from scary and complicated to easy and fun Whether you are a student looking to supplement your learning a worker hoping to better understand how statistics works for your job or a lifelong learner looking to improve your grasp of the world *Statistics 101* has you covered [A Lawyer's Guide to Probability and Statistics](#) James Brook, 1990 *In All Probability* Celia Cuomo, 1998 Students grades 3 6 play games that involve coins spinners dice and Native American game sticks They investigate chance and probability with concrete materials learn how to gather and analyze data make predictions and draw conclusions As they gain direct experience they also build confidence in their ability to explore probability and statistics This popular guide is complete with background information on real life connections and careers and on the probabilities involved in each of the games [Probability and Random Variables](#) David

Stirzaker,1999-09-02 This concise introduction to probability theory is written in an informal tutorial style with concepts and techniques defined and developed as necessary Examples demonstrations and exercises are used to explore ways in which probability is motivated by and applied to real life problems in science medicine gaming and other subjects of interest It assumes minimal prior technical knowledge and is suitable for students taking introductory courses those needing a working knowledge of probability theory and anyone interested in this endlessly fascinating and entertaining subject *Resources in Education* ,1995-10 **Instructor's Guide and Solutions, Introductory Statistics and Probability** David W. Blakeslee,William G. Chinn,1971 *Guide to Probability and Statistics* Gottfried Emanuel Noether,1961 Subject Guide to Books in Print ,2001 **Genetics** Thomas Robert Mertens,Robert L. Hammersmith,2007 THE definitive genetics lab manual for over 50 years this user friendly volume stresses classical genetics but includes some of the recent advances related to molecular and human genetics as well Drosophila and Maize Experiments in Genetics Monohybrid Crosses Dihybrid Crosses Cell Reproduction Mitosis Meiosis in Animals Oogenesis and Spermatogenesis Meiosis in Angiosperms Microsporogenesis and Megasporogenesis Polytene Chromosomes from Drosophila Salivary Glands Sex Chromosomes and Gene Transmission The Sex Check A Study of Sex Chromatin in Human Cells Human Chromosomes Linkage and Crossing Over Genetics of Ascospore Color in Sordaria An Investigation of Linkage and Crossing Over Using Tetrad Analysis Open Ended Experiments Using Drosophila Locating a Mutant Gene in Its Chromosome Isolation of DNA Restriction Endonuclease Digestion and Gel Electrophoresis of DNA Amplification of DNA Polymorphisms by Polymerase Chain Reaction PCR and DNA Fingerprinting Transformation of Escherichia coli Gene Action Synthesis of b Galactosidase in Escherichia coli Chromatographic Characterization of Drosophila melanogaster Mutants Bacterial Mutagenesis Gene Recombination in Phage Polygenic Inheritance Fingerprint Ridge Count Population Genetics The Hardy Weinberg Principle The Effects of Selection and Genetic Drift Applied Human Genetics For anyone interested in hands on genetics work **Study Guide, Introduction to Probability and Statistics** William Mendenhall,Barbara M. Beaver,Robert J. Beaver,1975 **Curriculum Development Library** ,1980 *Chance Rules* Brian Everitt,2009-06-29 Chance continues to govern our lives in the 21st Century From the genes we inherit and the environment into which we are born to the lottery ticket we buy at the local store much of life is a gamble In business education travel health and marriage we take chances in the hope of obtaining something better Chance colors our lives with uncertainty and so it is important to examine it and try to understand about how it operates in a number of different circumstances Such understanding becomes simpler if we take some time to learn a little about probability since probability is the natural language of uncertainty This second edition of Chance Rules again recounts the story of chance through history and the various ways it impacts on our lives Here you can read about the earliest gamblers who thought that the fall of the dice was controlled by the gods as well as the modern geneticist and quantum theory researcher trying to integrate aspects of probability into their chosen speciality Example included in the first

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