

Types of continuous probability distribution pdf

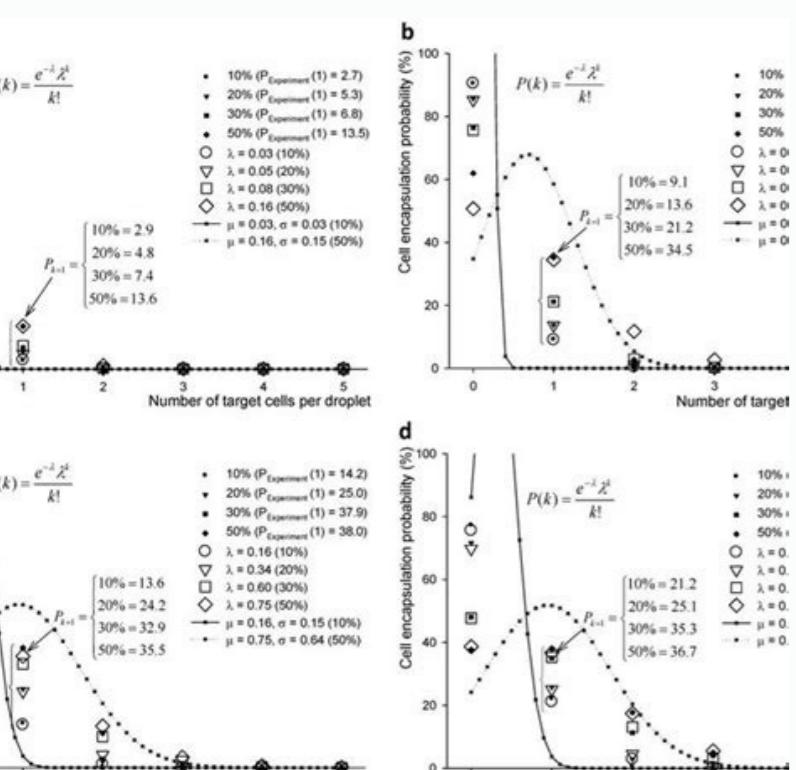
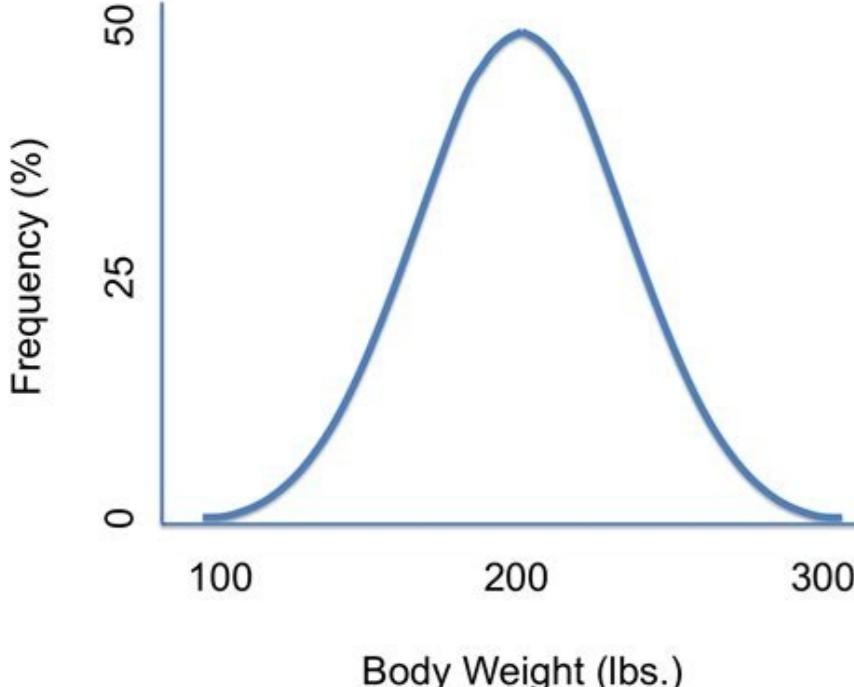
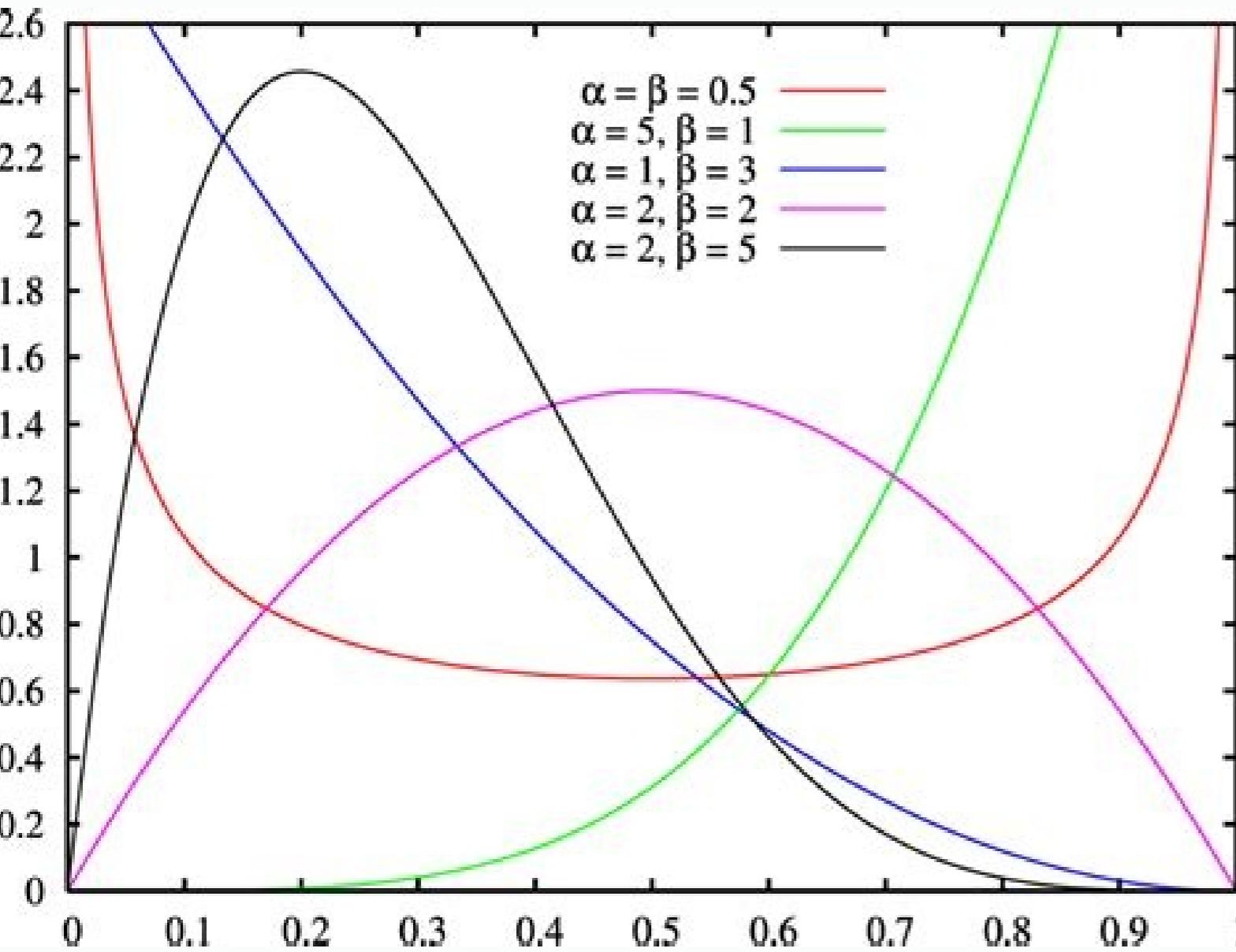
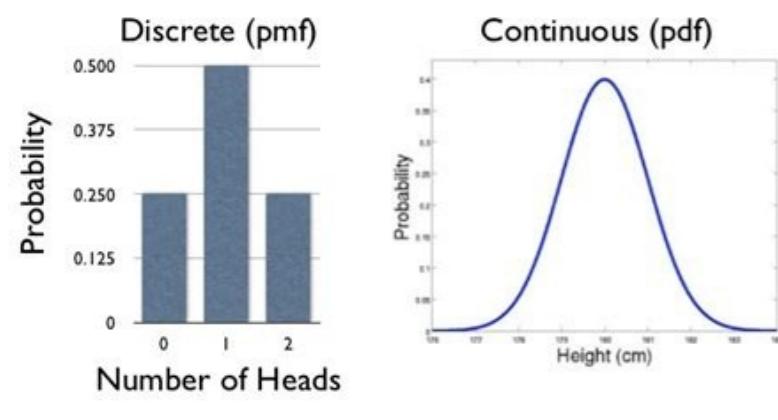
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LESSON 1 AND 2	
COMPETENCY: DISTINGUISH DISCRETE AND CONTINUOUS RANDOM VARIABLE	
Activity:	
Anton, a grade 11 student in St. Patrick School joins the try out for varsity team in basketball. He wants to prove that his height of 5'3 will not be a hindrance for being accepted in the varsity team. He was able to shoot the ball outside the 3-point area 5 times out of 10 attempts. Do you think Anton will become a varsity player? Why or Why not?	
MATHEMATICAL CONCEPTS	
Probability	
counting	
Examples:	number of students present students' sections number of red balls in a jar number of heads when flipping 3 coins
A continuous variable	is a variable whose value is obtained by measuring.
Examples:	height of students in class Weight of students in class Time it takes to get to school
A random variable	is a variable whose value is a numerical outcome of a random phenomenon
✓ A random variable is denoted with a capital letter	

Continuous Random Variables:

Defined by probability density function



A distribution represents the possible values that a variable random can take and how often they occur. $\text{Dia} \sim \mu$ represents the average value that is denoted by μ (My) and measured in seconds. Variability represents the dispersion of the data, denoted by σ^2 (Sigma Silver). It is pertinent to note that it cannot be measured in square seconds that do not make sense, therefore, the variance is measured by the Standard Deviation that is the square root of the variance and has the same unit as a medium. There are two types of data, namely population data and sample data. Population and Sample Data Rating: The more full the half of the distribution, more data falls into this range, as shown in the figure. The less data falls into this range, the more scattered the data are, as shown in the Figure Distribution Rating: $P(Y=y)$ Actual Result and one of the possible results $P(Y=y)$ Probability Distribution Types Characteristics of Distribution, Examples, & Probability Distribution Sumtypes Two main types of distributions based on the type of values available for the variable s are, Discrete Distributions Distributed Basic Distribution So Distribution Vs Distributed ContAnua A comparative table showing the difference between distribution discreet and distributed given here. Discrete distributionS Distributed in contact Discrete Distributions Discrete distributions have a finite number of different possible results. The cumulative distributions have infinite consecutive possible values. We can add individual values to find out the probability of a range because there are many of them. Discrete distributions can be expressed with a graphics, function by piece or table. The distributions containing can be expressed with a function of the body or graphics. In discrete distributions, the graphics consist of: An expected smooth curve may not be reachable to calculate the chance of an interval, we require integral notice: Here, x is variable, \sim tilde, n Types of Distribution and $(\text{to the Dolo}) * (\text{Dolo} - 1)$ are their characteristics. 1. Discrete distributions: Discrete distributions have a finite number of different possible results. Features of discrete distribution We can add individual values to discover the likelihood of a discrete distribution can be expressed with a graphic, a function In pieces or discrete distributions in Tablel, the graph consists of bars aligned after the other expected values may not be reached the discrete distributions appear to examples of discrete distributions: Bernoulli Binomial Distribution Distribution Uniform Distribution 1.1 Bernoulli Distribution in Bernoulli Distribution There is only one judgment So and only two possible results, this is, success or failure. It is denoted by $Y \sim \text{Bern}(P)$. Features of Bernoulli distributions is constituted by a single assay two possible results and $(y) = P(Y=y) = P(\text{success}) = p$ Examples and uses: Invite a single True / false question. It is more used when we try to find out what we expect to get a single test of an experiment. 1.2 Binomial Distribution A Sequence of Identical Events Bernoulli is binomial call and follows a binomial distribution. It is denoted by $Y \sim B(N, P)$. Features of binomial distribution along the tests N , measures the frequency of occurrence of one of the possible results. And $(Y) = N.N.N.O$ GT; $P(Y=y) = C(n, y) p^y (1-p)^{n-y}$ Examples and uses: just determine, how many Sometimes we get a head if we turn a coin ten times. It is most commonly used when we try to predict the likelihood of an event occur during a series of tests. 1.3 Uniform distribution in uniform dispensing all They're equally reasonable. It is denoted by $Y \sim U(a, b)$. If values are categorical, we specify the number of categories, such as $Y \sim U(a, b)$. Characteristics of Uniform Distribution In uniform distribution, all results are equally predictable. At the top, all the bars are equally high. The expected value and variance have no predictive power Examples and Users: Result obtained after rolling a dieDue for your equality mainly used in shuffling algorithms 1.4 Poisson Distribution The Poisson Distribution is used to determine the probability of a particular event occurring over a given range of time or distance. It is denoted by $Y \sim \text{Po}(r)$. Yeah. Characteristics of the distribution of poisson Mede frequency over a range of time or distance. Examples and uses are used to determine the probability of an event occurring during a given interval of time or distance. It is mostly used in marketing analysis to find out if more than the mother Visiting day is out of the ordinary or not. 2. CONTAINING DISTRIBUTIONS: The continuous distributions have infinite possible consecutive values. Characteristics of concurrent distributions We cannot add individual values to discover the probability of an interval because there are many delights Length distributions can be expressed with a concurrent function or graph. In concurrent distributions, the graph consists of a smooth curve To calculate the probability of an interval, We demand integrations $P(Y) dy$ for any distinct value y . $P(Y) dy$ Examples of concurrent distributions Distribution Standards Distribution Tablet Distribution Square Descentralized Distribution Student Distribution Distribution 2.1 Most natural events follow. It is marked by Y . The main characteristics of the normal distribution are: the characteristics of the normal distribution obtained from the normal distribution bell-shaped curve, yeah trice and has grill tails. 68% All of its values must fall into range, i.e. most normal distributions are (e.g. 2Examples and uses) the size of animals in the desert. We can convert any normal distribution into a normal standard distribution. 2.2 Chi-Squared Distribution Chi-Squared distribution is used. It is mainly used to test wow adjustment. It is denoted by $Y \sim \chi^2(k)$. Characteristics of the Chi-Squared distribution The graphics obtained from the Chi-Squared distribution is so@tric and distorted to the right. Squared distribution T . $E(Y) = k$ $V(Y) = 2k$ Examples and uses: It is mainly used to test wow adjustment. Comprises a table of known values for your CDF, called table x2 χ^2 priori. 2.3 Exponential distribution is generally observed in events that change considerably in the beginning. λ Joshua 160; It is denoted by $Y \sim \text{Exp}(\lambda)$. Characteristics of the plateau of exponential distribution Probability and Cumulative Distributed Functions (PDF +CDF) after a certain point. We don't have a table to know values like Normal Distribution or Chi-Squared, so we mainly use natural logarithm to change the values of exponential distributions. Examples and uses are mainly used with variable dynamic changes in change, such as online traffic. 2.4 Logical Distribution is used to observe how multiple multiple inputs can affect the probability of a binable result. It is denoted by $Y \sim \text{Logit}(Ades, s)$. Features of the logTic distribution Cumulative Distributed Function capturewhen we reach close values of quality. The smaller the scale meter, the faster it will reach values close to 1. Examples and uses is mainly used in sports to predict as a player λ s%%@% 800% of the player's feat@ info: tooltip 2.5 Students Aham Ahead ante ante T Distribution Students Of Distribution T.- Distribution T or simply Distribution T is used to estimate population limitation when sample size is small and the variance of the population is not Known. It is denoted by $Y \sim t(k)$. Characteristics of Distribution T A small estimate of the sample size of a normal distribution Your @ the symbolic and bell@shaped curve, however, has large tails. Examples and Usos are used in examining a small sample of data that usually follows a normal distribution. Download: Probability Distribution types.pdf

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