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Discrete Random Variable And  
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# Chapter 3 Discrete Random Variable And Probability

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## **Chapter 3 Discrete Random Variable**

Chapter 3 Discrete Random Variables As we see in the previous chapter, a probability is a measure of the likelihood of having an event resulting from an experiment. In order to precisely describe all probabilities of an

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experiment, mathematicians use an object called random variable which consists a set

## **Chapter 3 Discrete Random Variables - Purdue University**

Type of Random Variables I A discrete random variable can take one of a countable list of distinct values. It's

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sample space has finite or countable outcomes. | A continuous random variable can take any value in an interval of the real number line. It's sample space has uncountable outcomes. | Classify the following random variables as discrete or continuous

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## **Chapter 3: Discrete Random Variable**

Chapter 3. Discrete Random Variables and Their Probability Distributions 2.11  
Definition of random variable 3.1 Definition of a discrete random variable 3.2 Probability distribution of a discrete random variable 3.3 Expected value of a random variable or a function of a



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random variable 3.4-3.8 Well-known  
discrete probability distributions

## **Chapter 3. Discrete Random Variables and Their Probability ...**

Discrete Random Variables De nition  
(Discrete Random Variable) A discrete  
random variable is a variable which can  
only take-on a countable number of

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values (finite or countably infinite)

Example (Discrete Random Variable)

Flipping a coin twice, the random variable Number of Heads  $X$  is a discrete random variable. Number of

## **Chapter 3 Discrete Random Variables and Probability ...**

Chapter 3 Discrete Random Variables

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“When you flip a coin, there is a very small but finite chance you will never ever see that coin again.” - Scott Edward Shjefte

## **Chapter 3**

Chapter 3: Discrete Random Variable  
Shiwen Shen University of South  
Carolina 2016 Fall Section 003 1/62.

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Random Variable | Definition: A random variable is a function from a sample ... | A pmf  $p(x)$  for a discrete random variable  $X$  satisfies the following: 1.0  $p(x) \geq 0$ , for all possible values of  $x$ .

## **Chapter 3: Discrete Random Variable**

Theorem. If  $X$  is a random variable with

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binomial distribution  $B(n;p)$ , then  $E[X] = np$   $Var[X] = np(1 - p)$ . Comment on the proof. Two approaches: (1) Direct computation. (2) Write  $X$  in terms of the sum of independent Bernoulli random variables [will come back to this later on after we learn more on independent random variables].

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## **Chapter 3. Discrete Random Variables**

For the time being (in Chapter 3) we will limit our attention to discrete rvs. We will return to continuous rvs in Chapter 4. A very simple sort of discrete rv is a Bernoulli random variable. A Bernoulli rv can only take on the values 0 and 1.

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## **Discrete Random Variables (Devore Chapter Three)**

Discrete Random Variable a random variable is considered a discrete random variable if it can assume either a finite or countable infinite set of numbers

Probability Distribution for a Discrete Random Variable represented by a formula, table, or graph that provides  $p$

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$(y) = P(Y = y)$  for all  $y$

## **Chapter 3: Discrete Random Variables and Distributions ...**

Chapter 3 Discrete Random Variables and Probability Distributions Part 4: More of the Common Discrete Random Variable Distributions Sections 3.6 & 3.7 Geometric, Negative Binomial,



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Hypergeometric NOTE: The discrete Poisson distribution (Section 3.8) will be on midterm exam 2, not midterm exam 1. 1/28

## **Chapter 3 Discrete Random Variables and Probability ...**

Chapter 3 Random Variables 3.1

Discrete random variables. A discrete

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random variable is a random variable that takes integer values 5. A discrete...

3.2 Expected value. Suppose you perform a statistical experiment repeatedly, and observe the value of a random variable... 3.3 Binomial and geometric ...

## **Chapter 3 Random Variables |**

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## Discrete Random Variable And Probability

### **Foundations of Statistics with R**

74 Chapter 3. Continuous Random Variables (LECTURE NOTES 5) 1. Number of visits,  $X$  is a (i) discrete (ii) continuous random variable, and duration of visit,  $Y$  is a (i) discrete (ii) continuous random variable. 2. Discrete (a)  $P(X=2) =$  (i) 0 (ii) 0:25 (iii) 0:50 (iv) 0:75 (b)  $P(X \leq 2) = P(X \leq 1) = F(1) = 0:25 + 0:50 = 0:75$

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### **Chapter 3 Continuous Random Variables**

Chapter 3. Discrete Random Variables.  
Review • Discrete random variable: A random variable that can only take finitely many or countably many possible values. • Distribution: Let  $\{x_1, x_2, \dots\}$  be the possible values of  $X$ .

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Let  $P(X = x_i) = p_i$ , where  $p_i \geq 0$  and  $\sum p_i = 1$ .

## **Chapter 3. Discrete Random Variables - Applied Mathematics**

A discrete random variable has a countable number of possible values. The probability of each value of a discrete random variable is between 0

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and 1, and the sum of all the probabilities is equal to 1. A continuous random variable takes on all the values in some interval of numbers.

### **Discrete Random Variables | Boundless Statistics**

A discrete random variable is an rv whose possible values either constitute

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a finite set or else can be listed in an infinite sequence in which there is a first element, a second element,

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## **Chapter 3: Discrete Random Variables and Their Probability ...**

Discrete random variables are usually (but not necessarily) counts. If a random variable can take only a finite number of distinct values, then it must be discrete.



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## **Chapter 3 - - Discrete Random Variables (part 1) - AbouEl ...**

Discrete Random Variables. It is often the case that a number is naturally associated to the outcome of a random experiment: the number of boys in a three-child family, the number of defective light bulbs in a case of 100

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bulbs, the length of time until the next customer arrives at the drive-through window at a bank.

### **Chapter 4 Discrete Random Variables - GitHub Pages**

Random Variables (Discrete Case) 67

Example: Three balls are extracted from an urn containing 20 balls numbered

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from one to twenty. What is the probability that at least one of the three has a number 17 or higher. This question can easily be answered without random variables, but we will introduce a random variables for didactic reasons.

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