

Chapter 6

The t-test and Basic Inference Principles

The t-test is used as an example of the basic principles of statistical inference.

One of the simplest situations for which we might design an experiment is the case of a nominal two-level explanatory variable and a quantitative outcome variable. Table 6.1 shows several examples. For all of these experiments, the treatments have two levels, and the treatment variable is nominal. Note in the table the various experimental units to which the two levels of treatment are being applied for these examples. If we randomly assign the treatments to these units this will be a randomized experiment rather than an observational study, so we will be able to apply the word “causes” rather than just “is associated with” to any statistically significant result. This chapter only discusses so-called “between subjects” explanatory variables, which means that we are assuming that each experimental unit is exposed to only one of the two levels of treatment (even though that is not necessarily the most obvious way to run the fMRI experiment).

This chapter shows one way to perform statistical inference for the two-group, quantitative outcome experiment, namely the independent samples t-test. More importantly, the t-test is used as an example for demonstrating the basic principles of statistical inference that will be used throughout the book. The understanding of these principles, along with some degree of theoretical underpinning, is key to using statistical results intelligently. Among other things, you need to really understand what a p-value and a confidence interval tell us, and when they can

Chapter 6 The T Test And Basic Inference Principles

Terry C. Jones



Chapter 6 The T Test And Basic Inference Principles:

Introduction to Statistical Methods, Design of Experiments and Statistical Quality Control Dharmaraja Selvamuthu, Dipayan Das, 2018-09-03 This book provides an accessible presentation of concepts from probability theory statistical methods the design of experiments and statistical quality control It is shaped by the experience of the two teachers teaching statistical methods and concepts to engineering students over a decade Practical examples and end of chapter exercises are the highlights of the text as they are purposely selected from different fields Statistical principles discussed in the book have great relevance in several disciplines like economics commerce engineering medicine health care agriculture biochemistry and textiles to mention a few A large number of students with varied disciplinary backgrounds need a course in basics of statistics the design of experiments and statistical quality control at an introductory level to pursue their discipline of interest No previous knowledge of probability or statistics is assumed but an understanding of calculus is a prerequisite The whole book serves as a master level introductory course in all the three topics as required in textile engineering or industrial engineering Organised into 10 chapters the book discusses three different courses namely statistics the design of experiments and quality control Chapter 1 is the introductory chapter which describes the importance of statistical methods the design of experiments and statistical quality control Chapters 2 6 deal with statistical methods including basic concepts of probability theory descriptive statistics statistical inference statistical test of hypothesis and analysis of correlation and regression Chapters 7 9 deal with the design of experiments including factorial designs and response surface methodology and Chap 10 deals with statistical quality control

Introduction to Probability, Statistical Methods, Design of Experiments and Statistical Quality Control Dharmaraja Selvamuthu, Dipayan Das, 2024-04-08 This revised book provides an accessible presentation of concepts from probability theory statistical methods the design of experiments and statistical quality control It is shaped by the experience of the two teachers teaching statistical methods and concepts to engineering students Practical examples and end of chapter exercises are the highlights of the text as they are purposely selected from different fields Statistical principles discussed in the book have a great relevance in several disciplines like economics commerce engineering medicine health care agriculture biochemistry and textiles to mention a few Organised into 16 chapters the revised book discusses four major topics probability theory statistical methods the design of experiments and statistical quality control A large number of students with varied disciplinary backgrounds need a course in basics of statistics the design of experiments and statistical quality control at an introductory level to pursue their discipline of interest No previous knowledge of probability or statistics is assumed but an understanding of calculus is a prerequisite The whole book also serves as a master level introductory course in all the three topics as required in textile engineering or industrial engineering

Applied Statistics Andrew R. Timming, 2022-05-13 Written for the non mathematician and free of unexplained technical jargon Applied Statistics Business and Management Research provides a user friendly introduction to

the field of applied statistics and data analysis Featuring step by step explanations of how to carry out successful quantitative research and supported by examples from IBM SPSS Statistics this textbook is an essential resource for students and researchers of business and management A range of online resources for both students and lecturers including a teaching guide PowerPoint slides and datasets are available via the companion website Andrew R Timming is Professor of Human Resource Management and Deputy Dean Research Innovation in the School of Management at RMIT University Australia

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Econometrics and Data Analysis for Developing Countries Chandan Mukherjee,Howard White,Marc Wuyts,2013-09-13 Getting accurate data on less developed countries has created great problems for studying these areas Yet until recently students of development economics have relied on standard econometrics texts which assume a Western context *Econometrics and Data Analysis for Developing Countries* solves this problem It will be essential reading for all advanced students of development economics

Management Information Systems and Business Statistics Richard Schwindt,1995

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Principles of Statistics Paul A. Herzberg,1983-03-29 Presents comprehensive coverage of statistics in a step by step format geared for undergraduates majoring in the social sciences Discusses the basic theoretical concepts of statistics Explains how statistics are applied to research studies Emphasizes principles integration and understanding rather than rules Includes exercises taken from actual psychological research sketches and diagrams for problem solving techniques to

estimate the approximate value of a statistic review chapters statistical tables and much more Basic Statistics for the Behavioral Sciences Robert M. Kaplan,1987 Journal of the American Statistical Association ,2008 Technometrics ,2005 The Five Years of Bernar Venet Bernar Venet,Donald H. Karshan,1971 **Statistics for the Life Sciences** Myra L. Samuels,1989 Statistics for Management and Economics Gerald Keller,Brian Warrack,Henry Bartel,1994 This text's premise is that if a student cannot correctly determine which technique to use to solve a problem complete learning of statistics has not taken place Reflecting the text teaches systematically that which statisticians do which is how solve problems It focuses specifically on the relationship between the type of problem the type of data involved and the appropriate technique Influence Diagrams, Belief Nets and Decision Analysis Robert M. Oliver,James Q. Smith,1990 Based on the proceedings of a conference on Influence Diagrams for Decision Analysis Inference and Prediction held at the University of California at Berkeley in May of 1988 this is the first book devoted to the subject The editors have brought together recent results from researchers actively investigating influence diagrams and also from practitioners who have used influence diagrams in developing models for problem solving in a wide range of fields **Statistics for the Behavioral Sciences** James Jaccard,Michael A Becker,1989-10 For any introductory level statistics course in the behavioral sciences or related fields Shows the rationale behind the formulas and procedures they use and how it fits into research Examples from Literature sections in each chapter show students the applications of techniques **Chemical Engineering Education** ,1978 **Basic Engineering Data Collection and Analysis** Stephen B. Vardeman,J. Marcus Jobe,2001 This approach encourages students to work through the statistics by carrying data collection and analysis projects from problem formulation through preparation of professional technical reports just as if they were on the job BOOK JACKET *Economica* ,1992 **Choice** ,2001

Whispering the Secrets of Language: An Emotional Quest through **Chapter 6 The T Test And Basic Inference Principles**

In a digitally-driven world where monitors reign great and instant communication drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within phrases frequently go unheard. However, set within the pages of **Chapter 6 The T Test And Basic Inference Principles** a captivating fictional prize blinking with natural feelings, lies a fantastic journey waiting to be undertaken. Composed by a skilled wordsmith, that marvelous opus attracts viewers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the emotional depths with this emotional review, we can embark upon a heartfelt exploration of the book is key themes, dissect its captivating writing style, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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