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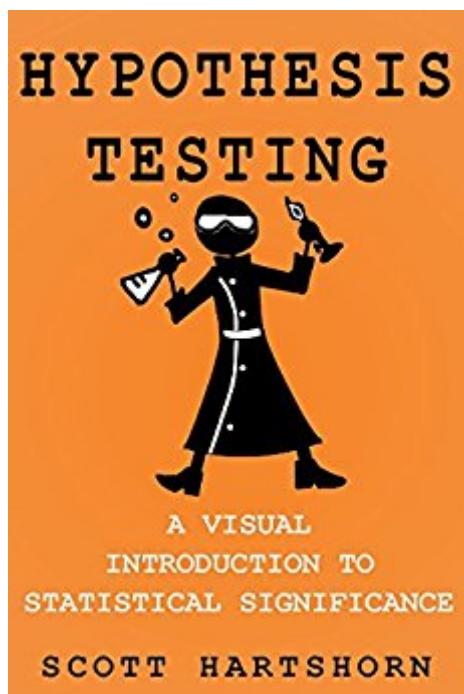

HYPOTHESIS TESTING

A VISUAL INTRODUCTION TO STATISTICAL SIGNIFICANCE

SCOTT HARTSHORN

Synopsis

Hypothesis Testing & Statistical Significance If you are looking for a short beginners guide packed with visual examples, this booklet is for you.Statistical significance is a way of determining if an outcome occurred by random chance, or did something cause that outcome to be different than the expected baseline.Ã Â Statistical significance calculations find their way into scientific and engineering tests of all kinds, from medical tests with control group and a testing group, to the analysis of how strong a newly made batch of parts is.Ã Â Those same calculations are also used in investment decisions.This book goes through all the major types of statistical significance calculations, and works through an example using them, and explains when you would use that specific type instead of one of the others.Ã Â Just as importantly, this book is loaded with visual examples of what exactly statistical significance is, and the book doesn't assume that you have prior in depth knowledge of statistics or that you regularly use an advanced statistics software package.Ã Â If you know what an average is and can use Excel, this book will build the rest of the knowledge, and do so in an intuitive way.Ã Â For instance did you know thatStatistical Significance Can Be Easily Understood By Rolling A Few Dice?In fact, you probably already know this key concept in statistical significance, although you might not have made the connection.Ã Â The concept is this.Ã Â Roll a single die.Ã Â Is any number more likely to come up than another ?Ã Â No, they are all equally likely.Ã Â Ã Â Now roll 2 dice and take their sum.Ã Â Suddenly the number 7 is the most likely sum (which is why casinos win on it in craps).Ã Â Ã Â The probability of the outcome of any single die didn't change, but the probability of the outcome of the average of all the dice rolled became more predictable.Ã Â If you keep increasing the number of dice rolled, the outcome of the average gets more and more predictable. Ã Â This is the exact same effect that is at the heart of all the statistical significance equations (and is explained in more detail in the book)You Are Looking At Revision 2 Of This BookThe book that you are looking at on right now is the second revision of the book.Ã Â Earlier I said that you might have missed the intuitive connections to statistical significance that you already knew.Ã Â Well that is because I missed them in the first release of this book.Ã Â The first release included examples for the major types of statistical significanceA Z-TestA 1 Sample T-TestA Paired T TestA 2 Sample T-Test with equal varianceA 2 Sample T-test with unequal varianceDescriptions of how to use a T-table and a Z-tableAnd those examples were good for what they were, but were frankly not significantly different than you could find in many statistics textbooks or on Wikipedia.Ã Â However this revision builds on those examples, draws connections between them, and most importantly explains concepts such as the normal curve or statistical significance in a way that will stick with you even if you don't

remember the exact equation. If you are a visual learner and like to learn by example, this intuitive booklet might be a good fit for you. Statistical Significance is fascinating topic and likely touches your life every single day. It is a very important tool that is used in data analysis throughout a wide-range of industries - so take an easy dive into the topic with this visual approach!

Book Information

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Customer Reviews

Succinct, easy to follow. Superb choice for studying statistics.

Easy to understand introduction to basic hypothesis testing. I would recommend it to anyone starting to learn statistics. It will certainly make it easier at a later stage of expanding knowledge. It is also appropriate for children or teens who want to do some simple research on their own.

Good refresher

Very simple and well written book. It is an ideal option to learn the first steps in statistical significance.I read it completely and it helped me a lot to understand the differences between some basic tests and thus, to get involved in the subject.Totally recommended for beginners.

Scott's books are a great practical intro into using stats for yourself. As an engineer who uses a variety of analytics in my professional and private life, I recommend this book. Keep up the good work Scott.

Although the booklet has several examples of the Z-Test, it lacks a good introduction to the subject. There is nothing in the beginning for the reader to get his bearing. The author begins as if the reader is familiar with the statistical concepts. A chapter giving an overview, and lead up is sorely needed. Also some comments on where it is used in real world, not just fabricated examples.

An excellent explanation of z, dependent samples t, and independent samples t test. Hope he writes one for one way anova and chi square.

Too brief and often unclear explanations.

Hypothesis Testing: A Visual Introduction To Statistical Significance Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination and Performance Testing, 9e (Daniels & Worthington's Muscle Testing (Hislop)) DNA Testing Guide Book: Utilize DNA Testing to Analyze Family History Genealogy, Classify and Measure Ethnic Ancestry Research, And Discover Who You Are ... DNA Testing, Ancestry, Ancestry Research) Analytics: Business Intelligence, Algorithms and Statistical Analysis (Predictive Analytics, Data Visualization, Data Analytics, Business Analytics, Decision Analysis, Big Data, Statistical Analysis) The Happiness Hypothesis: Finding Modern Truth in Ancient Wisdom God - the Failed Hypothesis: How Science Shows That God Does Not Exist The Innovator's Hypothesis: How Cheap Experiments Are Worth More than Good Ideas (MIT Press) The Homevoter Hypothesis: How Home Values Influence Local Government Taxation, School Finance, and Land-Use Policies Prime Numbers and the Riemann Hypothesis Set Theory and the Continuum Hypothesis (Dover Books on Mathematics) ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription (Ascms Resource Manual for Guidlies for Exercise Testing and Prescription) Ruppel's Manual of Pulmonary Function Testing, 10e (Manual of Pulmonary Function Testing (Ruppel)) Manual of Pulmonary Function Testing, 9e (Manual of Pulmonary Function

Testing (Ruppel)) Hacking: Computer Hacking, Security Testing, Penetration Testing, and Basic Security Essentials of Electronic Testing for Digital, Memory and Mixed-Signal VLSI Circuits (Frontiers in Electronic Testing) Hacking: Basic Security, Penetration Testing and How to Hack (hacking, how to hack, penetration testing, basic security, arduino, python, engineering Book 1) Hacking: How to Hack Computers, Basic Security and Penetration Testing (Hacking, How to Hack, Hacking for Dummies, Computer Hacking, penetration testing, basic security, arduino, python) Ruppel's Manual of Pulmonary Function Testing - E-Book (Manual of Pulmonary Function Testing (Ruppel)) Testing Women, Testing the Fetus: The Social Impact of Amniocentesis in America (The Anthropology of Everyday Life) The Testing (The Testing Trilogy Book 1)