

# Measures of Association Between Two Categorical Variables

## Describing Strength of Association

### *Characterizations*

|          |                           |
|----------|---------------------------|
| $>.5$    | high association          |
| .3 to .5 | moderate association      |
| .1 to .3 | low association           |
| 0 to .1  | little if any association |

There are lots of other measures of association. When both variables are nominal the previous measures are fine and there are certainly many more. For cases where both variables are ordinal common measures include Kendall's tau and Somer's D.

In some cases we wish to measure the degree of exact agreement between two nominal or ordinal variables measured using the same levels or scales in which case we generally use Cohen's Kappa ( $\kappa$ ).

# Measures Of Association

**D.H. Stamatis**



## Measures Of Association:

**Measures of Association** Albert M. Liebetrau, 1983-04 Clearly reviews the properties of important contemporary measures of association and correlation Liebetrau devotes full chapters to measures for nominal ordinal and continuous interval data paying special attention to the sampling distributions needed to determine levels of significance and confidence intervals Valuable discussions also focus on the relationships between various measures the sampling properties of their estimators and the comparative advantages and disadvantages of different approaches *Nonparametric Measures of Association* Jean Dickinson Gibbons, 1993-02-25 This compact and highly readable volume presents Spearman's and Kendall's rank correlation and coefficients Kendall's coefficients of concordance and of partial correlation and several association measures for ordered contingency tables This inexpensive and lucid text offers a good introduction or a quick review of methods of rank correlation It should prove beneficial to the practitioner who selects from and interprets the many measures produced by modern statistical packages Journal of the American Statistical Association When analyzing your data how should you describe the relationship or association between two or more sets of observations i.e. values of two or more variables when the variables are ordinal and not bivariate normal Aimed at helping the researcher select the most appropriate measure of association for two or more variables Jean Dickinson Gibbons clearly describes such techniques as Spearman's rho Kendall's tau Goodman Kruskal's gamma and Somer's d She also carefully explains the calculation procedures as well as the substantive meaning of each measure such as that rho is based on rankings while tau is based on paired comparisons In addition each technique is illustrated by one or more examples from recent social or behavioral science studies Lastly Gibbons provides information on the strengths and weaknesses of leading statistical packages for calculating these measures *Social Statistics for a Diverse Society* Chava Frankfort-Nachmias, Anna Leon-Guerrero, 2006 Social Statistics for a Diverse Society provides students with a revealing introduction to social science statistics This Fourth Edition maintains the same informal conversational writing style along with the many pedagogical features that made previous editions so successful It is an excellent textbook for students taking their first course in social statistics and can also be used in a number of sociological research methods courses BOOK JACKET *Modern Epidemiology* Kenneth J. Rothman, Sander Greenland, Timothy L. Lash, 2008 The thoroughly revised and updated Third Edition of the acclaimed Modern Epidemiology reflects both the conceptual development of this evolving science and the increasingly focal role that epidemiology plays in dealing with public health and medical problems Coauthored by three leading epidemiologists with sixteen additional contributors this Third Edition is the most comprehensive and cohesive text on the principles and methods of epidemiologic research The book covers a broad range of concepts and methods such as basic measures of disease frequency and associations study design field methods threats to validity and assessing precision It also covers advanced topics in data analysis such as Bayesian analysis bias analysis and hierarchical regression Chapters examine specific areas of

research such as disease surveillance ecologic studies social epidemiology infectious disease epidemiology genetic and molecular epidemiology nutritional epidemiology environmental epidemiology reproductive epidemiology and clinical epidemiology

**The Measurement of Association** Kenneth J. Berry, Janis E. Johnston, Paul W. Mielke, Jr., 2018-11-02 This research monograph utilizes exact and Monte Carlo permutation statistical methods to generate probability values and measures of effect size for a variety of measures of association Association is broadly defined to include measures of correlation for two interval level variables measures of association for two nominal level variables or two ordinal level variables and measures of agreement for two nominal level or two ordinal level variables Additionally measures of association for mixtures of the three levels of measurement are considered nominal ordinal nominal interval and ordinal interval measures Numerous comparisons of permutation and classical statistical methods are presented Unlike classical statistical methods permutation statistical methods do not rely on theoretical distributions avoid the usual assumptions of normality and homogeneity of variance and depend only on the data at hand This book takes a unique approach to explaining statistics by integrating a large variety of statistical methods and establishing the rigor of a topic that to many may seem to be a nascent field This topic is relatively new in that it took modern computing power to make permutation methods available to those working in mainstream research Written for a statistically informed audience it is particularly useful for teachers of statistics practicing statisticians applied statisticians and quantitative graduate students in fields such as psychology medical research epidemiology public health and biology It can also serve as a textbook in graduate courses in subjects like statistics psychology and biology

**Essentials of Social Statistics for a Diverse Society , Measures of Interobserver Agreement and Reliability** Mohamed M. Shoukri, 2003-07-28 Agreement among at least two evaluators is an issue of prime importance to statisticians clinicians epidemiologists psychologists and many other scientists Measuring interobserver agreement is a method used to evaluate inconsistencies in findings from different evaluators who collect the same or similar information Highlighting applications of

**Epidemiology** Kenneth J. Rothman, Krista F. Huybrechts, Eleanor J. Murray, 2024 This book introduces the basic concepts and methods of epidemiology which is the core science of public health Epidemiology has been defined as the study of the distribution and determinants of disease frequency 1 or more simply as the study of disease occurrence 2 Until recently epidemiology was a comparatively obscure discipline A running joke among epidemiologists was that epidemiology was often mistaken to be the branch of clinical medicine dealing with skin disease which is actually dermatology However since the pandemic caused by the SARS CoV 2 virus epidemiology has become widely recognized as a key scientific discipline involved in understanding and controlling the occurrence of disease Provided by publisher

**Nutrition in the Prevention and Treatment of Disease** Ann M. Coulston, Carol J. Boushey, 2008-03-28 This reference addresses basic principles and concepts that are central to the major clinical nutrition related activities such as nutritional assessment and monitoring current theoretical base and knowledge of efficacious interventions interactions

between genetic and nutritional factors and the use and interpretation of population based or clinical epidemiological evidence      *Answering Questions With Statistics* Robert Szafran,2011-10-20 Finally an introductory statistics text that provides broad coverage limited theory clear explanations plenty of practice opportunities and examples that engage today s students Using General Social Survey data from 1980 and 2010 this textbook asks students to consider how young adults have changed over the last 30 years Students learn to select an appropriate data analysis technique carry out the analysis and draw conclusions      *Statistics in Criminal Justice* David Weisburd,Chester Britt,2013-12-11 Statistics in Criminal Justice takes an approach that emphasizes the application and interpretation of statistics in research in crime and justice This text is meant for both students and researchers who want to gain a basic understanding of common statistical methods used in this field In general the text relies on a building block approach meaning that each chapter helps to prepare the student for the chapters that follow It also means that the level of sophistication of the text increases as the text progresses Throughout the text there is an emphasis on comprehension and interpretation rather than computation However as the statistical methods discussed become more complex and demanding to compute there is increasing use and integration of statistical software This approach is meant to provide the reader with an accessible yet sophisticated understanding of statistics that can be used to examine real life criminal justice problems with popular statistical software programs The primary goal of the text is to give students and researchers a basic understanding of statistical concepts and methods that will leave them with the confidence and the tools for tackling more complex problems on their own New to the 4th Edition New chapter on experimental design and the analysis of experimental data New chapter on multi level models including growth curve models New computer exercises throughout the text to illustrate the use of both SPSS and Stata Revision of exercises at the end of each chapter that places greater emphasis on using statistical software Additional resources on the text s web site for instructors and students including answers to selected problems syntax for replicating text examples in SPSS and Stata and other materials that can be used to supplement the use of the text      *7 Measures of Success* American Society of Association Executives (ASAE),2013-10-03 ASAE s signature guide for successful associations revised and updated This update of ASAE s all time bestseller retains the original book s focus on the disciplines that define remarkable associations and provides some insights on how those remarkable organizations fared in light of the economic challenges in the intervening years since the original publication was published Based on 15 years of data and original objective research tailored to the association community s needs *7 Measures of Success* provides empirical data and seven success factors common among visionary nonprofits Turn your organization from ordinary to extraordinary and discover how to Inspire a customer service oriented culture Align products and services with your mission Process feedback from members and use the data to deliver results Take actions that position your organization to adapt quickly Without question this is a must read book for all levels of association professionals      *Adventures in Social Research* Earl R. Babbie,2011 Click on the Supplements

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