

# Statistical Analysis With MAXQDA Stats

## Import Variables

- Data Editor
- Variable List
- Output Viewer
- Option for multiple response and matrix survey items

## Descriptive Analysis

### Descriptive statistics

Uses: examining distribution of interval data; examining whether assumptions are met for other tests (e.g., normal distribution)

Types of research questions: What are the trends for a certain variable or variables?

### Frequencies

Uses: examining distribution of categorical data

Types of research questions: those describing data or examining trends of categorical data

## Inferential Analysis

Crosstab (i.e., contingency tables) with chi square, contingency coefficient  $C$ , Cramer's  $V$

Uses: array levels of one categorical variable (as rows) against another (as columns), examine patterns

Types of research questions: What is the relationship among categorical variables?

### $t$ tests and Mann-Whitney $U$ tests

Uses:  $t$  tests compare means of two groups (Note: MAXQDA calculates an independent samples  $t$  test); Mann-Whitney  $U$  tests compare two groups for ordinal data (non-parametric data)

Types of research questions: Are two groups significantly different on a dependent variable?

## ANOVA

Uses: compare means of two or more groups

Types of research questions: Is there a significant difference among groups on a specific outcome variable?

## Correlation (Pearson, Spearman)

Uses: test the relationship among variables including interval (Pearson) and categorical (Spearman)

Types of research questions: What is the correlation between variable X and Y?

## Cluster analysis

Uses: examine patterns such as whether cases (e.g., individuals' scores) tend to group together on a set of variables

Types of research questions: To what extent cases can be clustered based on similarity?

## Scale analysis (Coefficient alpha)

Uses: calculate internal consistency reliability and indicate items that are unreliable relative to others, analysis of reliability of a survey, assessment, or other instrument

Types of research questions: what is the reliability of a scale?

<https://www.maxqda.com/>