

1 Investigating only ONE variable at a time		
	Graphical Procedures	Statistical Procedures
Continuous	Histogram	Descriptives 5-Point Summary - N - Mean - SD - Min - Max
	Boxplot	
	QQ Plot	
	Error Bar Chart	
	High-Low Chart	One Sample t-test
Categorical	Bar Chart	Frequency Table
	Pie Chart	Binomial Test
		Chi-Square Goodness of Fit Test

2 Investigating only TWO variables at a time <i>One IV → One DV</i>		
	Graphical Procedures	Statistical Procedures
Continuous IV → Continuous DV	Scatter Plot	Pearson Correlation Coefficient Spearman Correlation Coefficient
Categorical IV → Categorical DV	Clustered / Paneled Bar Charts	Pearson Chi-Square Crosstabs Many families of other crosstabs tests
Categorical IV → Continuous DV	Side by Side Boxplots	Independent Samples t-test (2 groups)
	Error Bar, and High-Low Charts	Paired Samples t-test (2 groups)
	Pyramid Plots	One Way ANOVA (3+ groups) Non-Parametric tests
Continuous IV → Categorical DV	Boxplots Laid Horizontally	Simple Regression: - Binary Logistic - Multinomial Logistic - Ordinal Logistic (Proportional Odds)

3 Investigating MANY Variables all at once <i>Many IVs → One DV</i>		
	Graphical Procedures	Statistical Procedures
Continuous & Categorical IVs → Continuous DV	Scatter Plots with Markers	Multiple Linear Regression
	Clustered / Paneled Boxplots, Error Bar, and High-Low Charts	
Continuous & Categorical IVs → Categorical DV	Interaction Line Plots	Multiple Regression: - Binary Logistic - Multinomial Logistic - Ordinal Logistic (Proportional Odds) Poisson Regression Other Generalized Linear Models
	Clustered / Paneled Bar Charts	

4 Repeated Measures / Longitudinal / Clustered / Multilevel / Mixed Procedures		
	Graphical Procedures	Statistical Procedures
Continuous & Categorical IVs → Continuous DV	Lines Plot (Spaghetti Plot)	Repeated Measures ANOVA Linear Mixed Models a.k.a. Hierarchical Linear Models (HLM)
Continuous & Categorical IVs → Categorical DV	Lines Plot (Spaghetti Plot) <i>with jitter artificially added for better visualization</i>	General Estimating Equations (GEE) Models Non-Linear Mixed Models