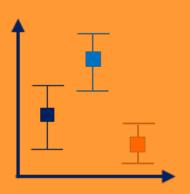
ANALYSIS OF VARIANCE (ANOVA)



Main research question	How strong is the effect of non-metrically scaled independent variables on
	A METRICALLY SCALED DEPENDENT VARIABLE?
EXAMPLE	A MANAGER OF A CINEMA WOULD LIKE TO KNOW WHETHER THE NUMBER OF VISITORS IS
	INFLUENCED BY THE TYPE OF ADVERTISING (RADIO, TELEVISION, NEWSPAPER).
TYPE OF ANALYSIS	Structure-testing (confirmatory) method
Measurement level	
DEPENDENT VARIABLE	Metric (one Variable)
INDEPENDENT VARIABLES	CATEGORICAL
RECOMMENDATIONS	• CARRY OUT A MANIPULATION CHECK TO TEST THE EXPERIMENTAL DESIGN.
	 LIMIT TO A FEW FACTORS SO THAT RESULTS REMAIN INTERPRETABLE.
	FACTORS WITH AT LEAST THREE FACTOR LEVELS EACH.
	 At least 20 observations per factor level (group). Each cell should have
	ABOUT THE SAME NUMBER OF CASES.
	• In the case of unequal group sizes, make sure to check the assumption of variance homogeneity.
Keywords	One-way and tow-way Anova, Anova-table, Ancova, Bonferroni test,
	CONTRAST ANALYSIS, ETA-SQUARED, EXPERIMENTAL DESIGN, FACTORIAL DESIGN, F-TEST,
	HOMOSCEDASTICITY, INTERACTION EFFECTS, LEVENE TEST, MANCOVA, MANOVA,
	Omnibus hypothesis, Post-hoc test, Scheffe test, Tukey test, Variance
	DECOMPOSITION, VARIANCE HOMOGENEITY