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Applied Multivariate Statistics for the Social Sciences By James Stevens		
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	tive to the normal distribution) does attenuate power.	
		6.6 MULTIVARIATE NORMALITY
	the corresponding a though it is difficul on each of the vario	rmality assumption is a much more stringent assumption than assumption of normality on a single variable in ANOVA. Alto to completely characterize multivariate normality, normality subject separately is a necessary, but not sufficient, condition for
	normally distributed Two other propertie bination of the varia variables have mu	lity to hold. That is, each of the individual variables must be a for the variables to follow a multivariate normal distribution. It is of a multivariate normal distribution are: (a) any linear completes are normally distributed, and (b) all subsets of the set of

normality, for correlated variables, implies that the scatterplots for each pair of variables will be elliptical; the higher the correlation, the thinner the ellipse. Thus, as a partial check on multivariate normality, one could obtain the scatterplots for pairs of variables from SPSS or SAS and see if they are approximately elliptical.