Cheatography

Step 1 Cheat Sheet by Robyn.jll via cheatography.com/146401/cs/31680/

Hypotheses			
H0: Null Hypothes	the H0 of a test always sis predicts no effect or no relati- onship between variables		
H1: Altern ative Hypothes	 H1 states your research prediction of an effect or realtionship 		
Research Design			
experi- mental design	you can assess a cause-and- effect using statistical tests of comparison or regression. e.g., the effect of meditation on		
	test scores		
correl- ational design	you can explore relationships between variables without any assumption of causality using correlation coefficients and signif- icance tests.		
	e.g., parental income and GPA		
descri- ptive design	you can study the characteristics of a population or phenomenon using statistical tests to draw inferences from sample data.		
	e.g., the prevalence of anxiety in U.S. college students		
Between/Within - subject Design			
betwee n-s- ubject design	individuals receive only one of the possible levels of an experimental treatment		
	e.g., subjects are randomly assigned a level of phone use and follow that level of phone use throughout the experiment		

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Research Design (cont)

within-su- bject design	every individual receives each of the experimental treatments consecutively, and their responses to each treatment are measured		
	e.g., subjects are assigned consecutively to zero, low, and high levels of phone use throughout the experiment, and the order in which they follow these treatments is randomized		
Randomisation			
completely randomized design	every subject is assigned to a treatment group at random		
randomized block design	subjects are first grouped according to a characteristic they share, and then randomly assigned to a treatment within those groups		
Measuring Variables			
Dependent Variable	Variable that represents the outcome		
Indepe- ndent Variable	Variables you manipulate in order to affect the outcome of an experiement		
Controlled Variable	Variables that are held constant throughout the experiment		

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Measuring Variables (cont)

Confou- nding Variable	Variables that hides the true effect of another variable in your experiment. This can happen when another variable is closely related to a variable you are interested in, but you have not controlled it in your experiment	
Latent Variable	Variables that cannot be directly measured, but that you represent via a proxy	
Composite Variable	Variables that are made by combining multiple variables in an experiment. These variables are created when you analyze date, not when you measure it	
Quantitative Variables		
Discrete/- integer Variable	counts of individual items or values	
Contin- uous/ratio Variable	measurements of continuous or non-finite values	
Categorial Variables		
Binary/di- cho- tomous Variable	Yes / No Outcome	
Nominal Variable	groups with no rank or order between them	
Ordinal Variables	groups that are ranked in a specific order	

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