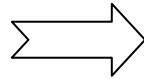


Explicating the Role of Individual Variables in a Study

Every “variable” is either...		
	Constant	Variable
Measured	1*	2*
Manipulated	3*	4*



	BG	WG	MG
True Exp	Balance all subject variables by RA	Balance all subject variables by CB	Balance matching variables by matching . Balance all other subject variables by RA
Quasi Exp	All subject variables are confounds	Serialized nature of IV controls all subject variables	Balance matching variables by matching . All other subject variables are confounds
Non-Exp	All subject variables are confound	All subject variables are confounds	Balance matching variables by matching . All other subject variables are confounds



Variable Role Explication Script

1. Is the target variable measured or manipulated?
2. Is the target variable the IV ? the DV ?
3. Is the target variable reasonably a constant ?
 - if so ... constant value ... constant → controlled
 - if so ... constant value = 0 ... elimination → controlled
4. Is the target variable a matching/yoking variable ?
 - if so ... matched → balanced → controlled
5. Based on the research design ... Is there RA/CB ?
 - if so ... RA → balanced → controlled
6. Answers to 3, 4 & 5 all “no”
 - if so ... target variable is a confound
 - if measured variable → initial eq problem
 - if manipulated variable → ongoing eq problem

Every Variable in Any Study has 1 of 8 Roles !!!

1. Causal Variable/IV 2 or 4*
2. Effect Variable/DV 2*

Measured/Subject Variables

3. Control Constant 1*
 4. Control Variable 2*
 5. *Confounding Variable* 2*
- } Initial Equivalence

Manipulated/Procedural Variables

6. Control Constant 3*
 7. Control Variable 4*
 8. *Confounding Variable* 4*
- } Ongoing Equivalence

subject
balanced

manipulated
eliminated

IV
held constant

confound
randomized

control
matched

ongoing eq problem
initial eq problem