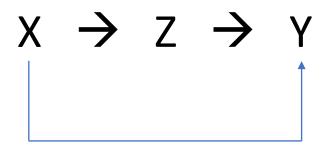
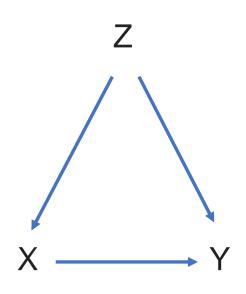
Complete Interpretation

$$X \rightarrow Z \rightarrow Y$$

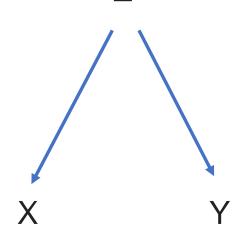
Partial Interpretation







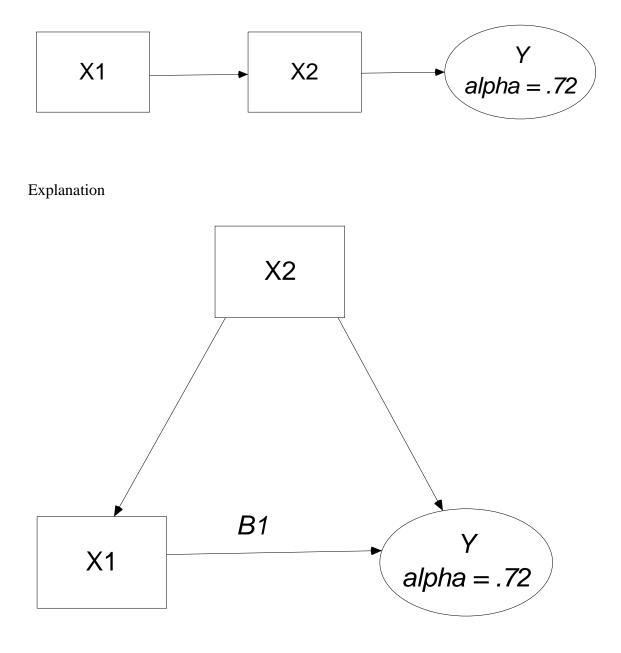
Complete Explanation Z



Summary Notes on Statistical Elaboration

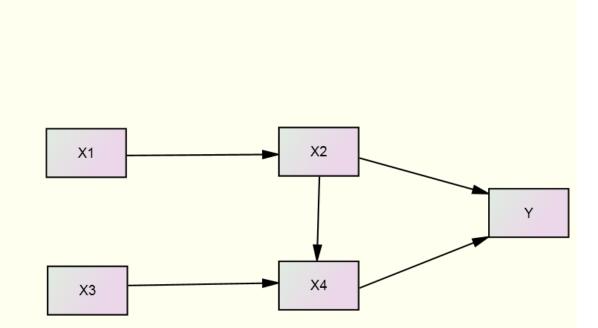
Name of Effect	Symbolic Crossta	ab Regress	sion
	Representation	Results	Results
Replication	Irrespective of Z $X \leftarrow \rightarrow Y$	Same results in control tables as in original table without controls	X predicts Y with and without Z being in equation
Interpretation (mediation)	x→z→y	All control tables show weaker relationship than original table	Entering Z into equation reduces or eliminates X's influence on Y
Explanation	x ← /→Y	All control tables show weaker relationship than original table	Entering Z into equation reduces or eliminates X's influence on Y
Specification	If Z = 1	Only one (or	An interaction
(moderation)	$X \leftarrow \rightarrow Y$ If Z ≠ 1 $X \leftarrow / \rightarrow Y$	some) of control tables show relationship from original table	term of the form X*Z predicts Y
	Or, preferably X Z → XZ →Y		
Suppression	Without control for Z: $X \leftarrow / \rightarrow Y$ With control for Z $X \leftarrow \rightarrow Y$	Control tables reveal a relationship that was not evident in original table without controls	Entering Z into equation allows X to predict Y
Distortion	Another pattern of results	Control tables show complex pattern of results	Entering Z into equation produces complex pattern

Interpretation

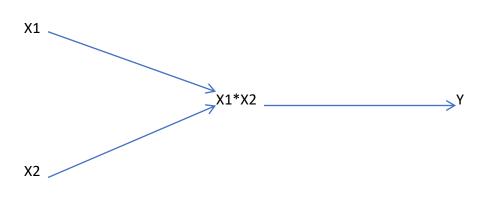


$X1 \rightarrow X2 \rightarrow Y$

$X1 \rightarrow X2 \rightarrow Y$



Complete Specification



compute interact= (x1 * x2).

	Male (0)	Female (1)
Non- Hispanic (0)	0	0
Hispanic (1)	0	1

compute FemHisp = Female*Hisp.

Consider:

	(0)	(.5)	(1)
(0)	0	0	0
(.5)	0	.25	.5
(1)	0	.5	1

And:

	(1)	(2)	(3)
(1)	1	2	3
(2)	2	4	6
(3)	3	6	9

Both produce valid interaction terms.

However, be particularly careful not to use one dummy and an ordinal variable

	(0)	(1)
(0)	0	0
(.5)	0	.5
(1)	0	1

create interaction terms.
compute femhisp = (female * hisp).

regression variables=RawMJ3 female hisp femhisp /statistics anova coeff r tol /descriptives = n /dependent = RawMJ3 /method = enter female hisp /method = enter femhisp.

Raw MJ3 Model Summary

		R	Adjusted R	Std. Error of
Model	R	Square	Square	the Estimate
1	.216 ^a	.047	.045	1.12824
2	.218 ^b	.048	.046	1.12828

a. Predictors: (Constant), Hisp, female

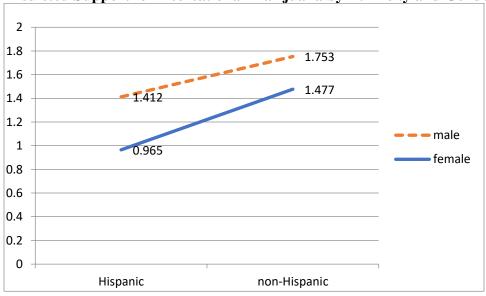
b. Predictors: (Constant), Hisp, female, femhisp

Model		b	Std. Error	Beta	t	Sig.	Tol
1	(Constant)	1.770	.053		33.548	.000	
	female	312	.072	135	-4.345	.000	.991
	Hisp	438	.088	156	-4.996	.000	.991
2	(Constant)	1.753	.056		31.539	.000	
	female	276	.081	120	-3.419	.001	.784
	Hisp	341	.133	121	-2.575	.010	.433
	femhisp	171	.177	049	970	.332	.373

RawMJ3 = Constant + female + hisp + femhisp

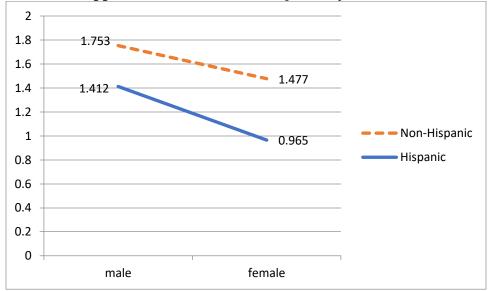
constant + female + hisp + femhisp

RawMJ3 (Female & Hisp)	=	1.753 – .276(1)341(1)171(1)	= .965
RawMJ3 (Female & nonHisp)	=	1.753276(1)341 (0)171(0)	= 1.477
RawMJ3 (Male & Hisp)	=	1.753276(0)341(1)171(0)	= 1.412
RawMJ3 (Male & nonHisp)	=	1.753276(0)341(0)171(0)	= 1.753



Predicted Support for Recreational Marijuana by Ethnicity and Gender

Source: PPIC October 2016



Predicted Support for Recreational Marijuana by Gender and Ethnicity

Source: PPIC October 2016

Raw MJ3 Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.386 ^a	.149	.147	1.06531
2	.397 ^b	.158	.155	1.06050

a. Predictors: (Constant), interest, liberal5

b. Predictors: (Constant), interest, liberal5, libint

Model		b	Std. Error	Beta	t	Sig.	Tol
1	(Constant)	.440	.107		4.130	.000	
	liberal5	1.371	.111	.366	12.392	.000	.998
	interest	.572	.121	.139	4.711	.000	.998
2	(Constant)	.890	.178		4.998	.000	
	liberal5	.510	.295	.136	1.731	.084	.139
	interest	045	.230	011	194	.846	.275
	libint	1.191	.379	.285	3.145	.002	.105

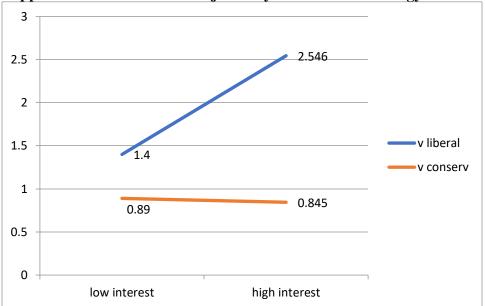
constant + liberal + interest + libint

RawMJ3 (vcons & none)	=	.890 + .510(0)045(0) + 1.191(0)	=	.890
RawMJ3 (vcons & great)	=	.890 + .510(0)045(1) + 1.191(0)	=	.845
RawMJ3 (vlib & none)	=	.890 + .510(1)045(0) + 1.191(0)	=	1.4
RawMJ3 (vlib & great)	=	.890 + .510(1)045(1) + 1.191(1)	= 2	2.546

3 2.5 2 1.5 1.5 1.5 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.89 0.845 0.89 0.845 0.89 0.845 0.89 0.89 0.845 0.89 0.845 0.89 0.89 0.845 0.89 0.89 0.89 0.845 0.89 0.845 0.89 0.89 0.89 0.89 0.89 0.845 0.89

Support for Recreational Marijuana by Ideology and Interest

Source: PPIC October 2016



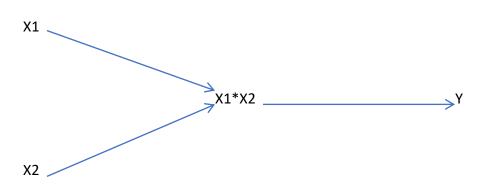
Support for Recreational Marijuana by Interest and Ideology

Source: PPIC October 2016

Predicting Attitudes toward RawMJ3 using interaction (Unstandardized coefficients)

		Model 1	Model 2	Model 3	Model 4
	(Constant)	1.106	.797	.404	.793
	Democrat5	.747***	.194	.213	.146
	liberal5		1.210***	1.216***	.546
	interest			.569***	.059
	lib*int				.981**
Adj R ²		.045	.124	.143	.149
N =		(949)	(949)	(949)	(949)

Complete Specification



Partial Specification

