### **MULTIPLE REGRESSION**

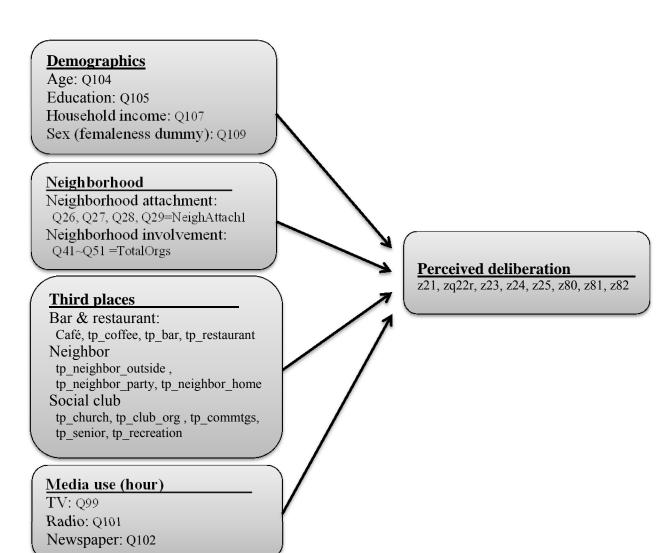
### : FORCED-ENTRY HIERARCHICAL MODEL

National Community Study 2006

National RDD survey conducted by CATI, Communication Research Center at Cleveland State University

Hocheol Yang Date: Mar 25

## 1. Model



### **Demographics**

### -Age:

104. What is your age: \*missing marked for 8~9 1- 18-20 2- 21-30 3- 31-40 4- 41-50 5- 51-60

- 6-61-70
- 7-71 or older

9-(DECLINES TO ANSWER)

### -Education:

105. How much formal education have you completed? \*missing marked for 7~9

1-completed grade school (8 years or less)

- 2-some high school3-high school graduate4-some college5-college graduate6-advanced college degree
- 9-Missing information

### -Household income:

- 107. Now I'm going to read a list of annual income categories. Please stop me when I read the one that applies to your household. \*missing marked for 11~99, & 0
  - 1- \$10,000 or less 2- \$10,001 to \$20,000 3- \$20,001 to \$30,000 4- \$30,001 to \$40,000 5- \$40,001 to \$50,000 6- \$50,001 to \$75,000 7- \$75,001 to \$100,000 8- \$100,001 to \$150,000 9- more than \$150,000 99-missing information/don't know/refused

### -Sex (dummy coding): 0-male; 1-female

### Neighborhood

-Neighborhood attachment: (0 = completely disagree; 10 = completely agree): sum of standardized measurements.

\*\*Neighborhood attachment uses standardized measurement, because we found NeighAttach1, a scale that was already constructed, and it does not hurt the analysis, and time saving.

- 26. I'd feel lost if I had to move from my neighborhood.
- 27. I feel I'm a part of the community in which I live.
- 28. I feel a strong identification with my community.
- 29. I enjoy living in my neighborhood.

-Neighborhood involvement: (0 = no; 1 = yes): sum of each measurement.

\*\*This scale was also already constructed=TotalOrg

- 41. Do you belong to any business or civic groups like Kiwanis or Rotary?
- 42. How about religious organizations?
- 43. Charity or volunteer organizations?
- 44. Ethnic or racial organizations?
- 45. PTA or other school related groups?
- 46. Political clubs or organizations?
- 47. Social clubs such as card playing, music, hobbies, book club, and so on?
- 48. Youth groups like scouts or children's sports?
- 49. Any professional or work-related organizations?
- 50. Neighborhood associations such as block clubs?
- 51. Any other types of organizations not mentioned?

#### Third place

The original third place measurements are measured by 0, 1. These were coded by the researcher from an open-ended item (Q53) that asked "What are the opportunities for communication in public places in your neighborhood, for example, places where people might chat informally or where friends and neighbors might go for a conversation?" Each set below should be summed, and then coded as dummy where greater or equal to 1 is one, and zero is zero; because, summing each measurement doesn't give a very good distribution for looking at agglomeration of places.

- Bar & restaurant: Café, tp\_coffee, tp\_bar, tp\_restaurant

- Neighbor tp\_neighbor\_outside , tp\_neighbor\_party, tp\_neighbor\_home

-Social club tp\_church, tp\_club\_org, tp\_commtgs, tp\_senior, tp\_recreation

Media use

-TV (99): How many hours of TV did you watch yesterday? (0~11 hours, yesterday)

-Radio (101): How many hours did you listen to the radio yesterday? (0~11 hours, yesterday)

-Newspaper (102): How many days last week did you read a newspaper? (0~7 days in a week)

### **Perceived deliberation**

Deliberation (Habermas, 2006) is a combination of thoughtful problem analysis and egalitarian process that communicators have adequate communication opportunities and engage in attentive listening or dialogue that connects divergent spectrums of speaking and knowing (Burkhalter, Gastil, & Kelshaw, 2002). So I included below questions in the manner of perception of deliberation. Each measurement has been standardized and Q22 has been reverse coded, after then, the mean of the eight items was taken, as a scale of perceived deliberation.

Moy and Gastil (2006) argued that print media use and interpersonal discussion enhance deliberation, and television news viewing hindered deliberation. At this study deliberation was defined "deliberative conversation", so I want to test "perceived deliberation" has same phenomena. Also, McLeod et al. (1999) argued that having more discussion partners makes communication process and participation, so I controlled the effect of neighborhood and third place.

Q21: I'd feel comfortable voicing a complaint at a public meeting in my community.

Q22: People in this community seem to be afraid to speak up when they disagree.

Q23: Public officials in my community seem receptive to views of residents.

Q24. I generally discuss political candidates and issues with neighbors at election time.

Q25. I generally discuss political candidates and issues with family and friends at election time.

Q80. How many days in the past week did you engage in political discussion with friends and family, never, once, a couple times, almost every day, or several times a day?

Q81. How often do you discuss politics with people whose political views are different from yours--almost never, seldom, sometimes, or frequently?

Q82. About how many people do you discuss politics with on a regular basis, none, one, two or three, five to ten, or more than that?

### References

Burkhalter, S., Gastil, J., & Kelshaw, T. (2002). A conceptual definition and theoretical model of public deliberation in Small Face—to—Face Groups. *Communication Theory*, 12(4), 398-422. doi: 10.1111/j.1468-2885.2002.tb00276.x

Habermas, J. (2006). Three normative models of democracy. Constellations, 1(1), 1-10.

- McLeod, J. M., Scheufele, D. A., Moy, P., Horowitz, E. M., Holbert, R. L., Zhang, W., . . . Zubric, J. (1999). Understanding deliberation The effects of discussion networks on participation in a public forum. *Communication Research*, *26*(6), 743-774.
- Moy, P., & Gastil, J. (2006). Predicting deliberative conversation: The impact of discussion networks, media use, and political cognitions. *Political Communication*, 23(4), 443-460. doi: 10.1080/10584600600977003

# **2. Running SPSS** 1) Analysis -> Regression -> Linear

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### 2) Select dependent variable Click variable name->arrow

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### 3) Select independent variables for block1 Click independent variable name->arrow

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### 4) Move to the next block Click next

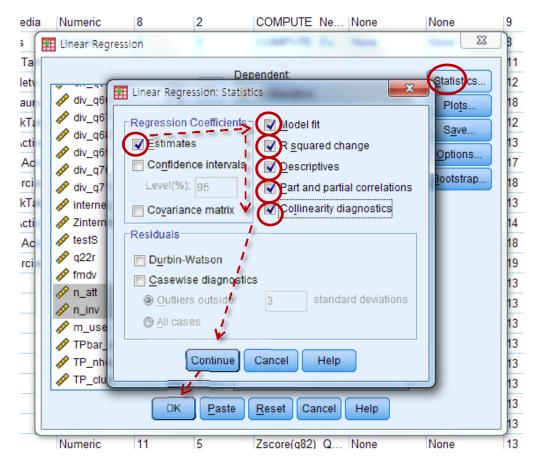
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### 5) Select independent variables for block2 Click variable name->arrow

[NOTE: Screenshots for blocks 3 and 4 are not shown]

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# 6) Statistics setting 6.a Click statistics 6.b Click Estimates, Model fit, R square change, Descriptive, Part and partial correlations, Collinearity diagnostics.



\*\* The way of making plots are not included.

### 7) Click "Continue" and then "OK" to run the procedure

## 3. SPSS Output

### 1. Syntax

REGRESSION /DESCRIPTIVES MEAN STDDEV CORR SIG N /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL CHANGE ZPP /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT deliberation /METHOD=ENTER q104 q105 q107 fmdv /METHOD=ENTER n\_att n\_inv /METHOD=ENTER TPbar\_restaurant TP\_nhood TP\_club /METHOD=ENTER q99, q101, q102 /SCATTERPLOT=(\*ZRESID ,\*ZPRED) /RESIDUALS HISTOGRAM(ZRESID).

### 2. Regression

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		atcom_rev02_hocheol.sav
	Active Dataset	DataSet1
	File Label	CP05
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for
		any variable used.

Syntax		REGRESSION /DESCRIPTIVES MEAN STDDEV CORR SIG N /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL CHANGE ZPP /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT deliberation /METHOD=ENTER q104 q105 q107 fmdv /METHOD=ENTER n_att n_inv
		/METHOD=ENTER TPbar_restaurant TP_nhood TP_club
		/METHOD=ENTER q99, q101, q102
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Deliberation	.0037	.59531	340					
Age	4.35	1.619	340					
Education	4.07	1.325	340					
Household income	4.73	2.211	340					
Sex(femaleness dummy)	.5118	.50060	340					
Neighbor attachment	1773	3.23016	340					
Neighbor involvement	2.8647	2.38591	340					
TPbar_restaurant	.2706	.44492	340					
TP_nhood	.1735	.37926	340					
TP_club	.3529	.47859	340					
No.hours watched TV	3.06	2.304	340					
yesterday								
Hours listened to radio	1.97	2.695	340					
yesterday								
No.days read paper last	3.73	2.817	340					
week								

	C	orrelations			
		Deliberation	Age	Education	Household income
Pearson Correlation	Deliberation	1.000	.128	.302	.324
	Age	.128	1.000	004	040
	Education	.302	004	1.000	.485
	Household income	.324	040	.485	1.000
	Sex(femaleness dummy)	172	031	083	064
	Neighbor attachment	.290	.355	003	003
	Neighbor involvement	.354	.004	.285	.246
	TPbar_restaurant	.099	028	.124	.054
	TP_nhood	.034	026	006	018
	TP_club	.221	.112	.139	.071
	No.hours watched TV yesterday	210	.105	271	288
	Hours listened to radio yesterday	.138	109	078	018
	No.days read paper last week	.348	.311	.263	.151
Sig. (1-tailed)	Deliberation		.009	.000	.000
	Age	.009		.470	.233
	Education	.000	.470		.000
	Household income	.000	.233	.000	

#### Descriptive Statistics

	Sex(femaleness dummy)	.001	.287	.062	.121
	Neighbor attachment	.000	.000	.475	.121
	Neighbor involvement	.000	.000	.000	.000
	TPbar restaurant	.035	.301	.000	.162
	TP nhood	.265	.314	.457	.372
	TP club	.000	.020	.005	.096
	No.hours watched TV	.000	.020	.000	.000
	yesterday	.000	.027	.000	.000
	Hours listened to radio	.005	.022	.076	.374
	yesterday				
	No.days read paper last	.000	.000	.000	.003
	week	0.40	0.40		
Ν	Deliberation	340	340	340	340
	Age	340	340	340	340
	Education	340	340	340	340
	Household income	340	340	340	340
	Sex(femaleness dummy)	340	340	340	340
	Neighbor attachment	340	340	340	340
	Neighbor involvement	340	340	340	340
	TPbar restaurant	340	340	340	340
	 TP_nhood	340	340	340	340
	TP club	340	340	340	340
	No.hours watched TV	340	340	340	340
	yesterday	040	040	040	0+0
	Hours listened to radio	340	340	340	340
	yesterday		_		
	No.days read paper last	340	340	340	340
	week				

		Correlations	5		
		Sex(femalene ss dummy)	Neighbor attachment	Neighbor involvement	TPbar_restaurant
Pearson Correlation	Deliberation	172	.290	.354	.099
	Age	031	.355	.004	028
	Education	083	003	.285	.124
	Household income	064	003	.246	.054
	Sex(femaleness dummy)	1.000	.095	142	.025
	Neighbor attachment	.095	1.000	.143	.036
	Neighbor involvement	142	.143	1.000	.073
	TPbar_restaurant	.025	.036	.073	1.000
	TP_nhood	034	.040	.026	052
	TP_club	017	.171	.269	117
	No.hours watched TV yesterday	.067	.006	202	042
	Hours listened to radio yesterday	014	049	.032	.048
	No.days read paper last week	.028	.235	.267	.095
Sig. (1-tailed)	Deliberation	.001	.000	.000	.035
	Age	.287	.000	.472	.301

	Education	.062	.475	.000	.011
	Household income	.121	.477	.000	.162
	Sex(femaleness dummy)	· · - ·	.040	.004	.320
	Neighbor attachment	.040		.004	.254
	Neighbor involvement	.004	.004		.088
	TPbar_restaurant	.320	.254	.088	
	TP_nhood	.266	.232	.316	.170
	TP_club	.375	.001	.000	.015
	No.hours watched TV yesterday	.108	.457	.000	.219
	Hours listened to radio yesterday	.399	.184	.281	.190
	No.days read paper last week	.301	.000	.000	.041
Ν	Deliberation	340	340	340	340
	Age	340	340	340	340
	Education	340	340	340	340
	Household income	340	340	340	340
	Sex(femaleness dummy)	340	340	340	340
	Neighbor attachment	340	340	340	340
	Neighbor involvement	340	340	340	340
	TPbar_restaurant	340	340	340	340
	TP_nhood	340	340	340	340
	TP_club	340	340	340	340
	No.hours watched TV yesterday	340	340	340	340
	Hours listened to radio yesterday	340	340	340	340
	No.days read paper last week	340	340	340	340

### Correlations

		TP_nhood	TP_club	No.hours watched TV yesterday
Pearson Correlation	Deliberation	.034	.221	210
	Age	026	.112	.105
	Education	006	.139	271
	Household income	018	.071	288
	Sex(femaleness dummy)	034	017	.067
	Neighbor attachment	.040	.171	.006
	Neighbor involvement	.026	.269	202
	TPbar_restaurant	052	117	042
	TP_nhood	1.000	176	016
	TP_club	176	1.000	028
	No.hours watched TV yesterday	016	028	1.000
	Hours listened to radio yesterday	.045	.003	071
	No.days read paper last week	.003	.098	096
Sig. (1-tailed)	Deliberation	.265	.000	.000

	A	014	000	007
	Age	.314	.020	.027
	Education	.457	.005	.000
	Household income	.372	.096	.000
	Sex(femaleness dummy)	.266	.375	.108
	Neighbor attachment	.232	.001	.457
	Neighbor involvement	.316	.000	.000
	TPbar_restaurant	.170	.015	.219
	TP_nhood		.001	.387
	TP_club	.001		.304
	No.hours watched TV yesterday	.387	.304	
	Hours listened to radio	.205	.480	.097
	yesterday			
	No.days read paper last week	.477	.035	.039
Ν	Deliberation	340	340	340
	Age	340	340	340
	Education	340	340	340
	Household income	340	340	340
	Sex(femaleness dummy)	340	340	340
	Neighbor attachment	340	340	340
	Neighbor involvement	340	340	340
	TPbar_restaurant	340	340	340
	TP_nhood	340	340	340
	TP_club	340	340	340
	No.hours watched TV yesterday	340	340	340
	Hours listened to radio yesterday	340	340	340
	No.days read paper last week	340	340	340

### Correlations

		Hours listened to radio yesterday	No.days read paper last week
Pearson Correlation	Deliberation	.138	.348
	Age	109	.311
	Education	078	.263
	Household income	018	.151
	Sex(femaleness dummy)	014	.028
	Neighbor attachment	049	.235
	Neighbor involvement	.032	.267
	TPbar_restaurant	.048	.095
	TP_nhood	.045	.003
	TP_club	.003	.098
	No.hours watched TV yesterday	071	096
	Hours listened to radio yesterday	1.000	.039

	No.days read paper last week	.039	1.000
Sig. (1-tailed)	Deliberation	.005	.000
-	Age	.022	.000
	Education	.076	.000
	Household income	.374	.003
	Sex(femaleness dummy)	.399	.301
	Neighbor attachment	.184	.000
	Neighbor involvement	.281	.000
	TPbar_restaurant	.190	.041
	TP_nhood	.205	.477
	TP_club	.480	.035
	No.hours watched TV yesterday	.097	.039
	Hours listened to radio yesterday		.236
	No.days read paper last week	.236	
Ν	Deliberation	340	340
	Age	340	340
	Education	340	340
	Household income	340	340
	Sex(femaleness dummy)	340	340
	Neighbor attachment	340	340
	Neighbor involvement	340	340
	TPbar_restaurant	340	340
	TP_nhood	340	340
	TP_club	340	340
	No.hours watched TV yesterday	340	340
	Hours listened to radio yesterday	340	340
	No.days read paper last week	340	340

### Variables Entered/Removed<sup>b</sup>

Model		Variables	
	Variables Entered	Removed	Method
1	Sex(femaleness dummy), Age, Household income, Education <sup>a</sup>		Enter
2	Neighbor involvement, Neighbor attachment <sup>a</sup>		Enter
3	TP_nhood, TPbar_restaurant, TP_club <sup>a</sup>		Enter

4	Hours listened to radio yesterday, No.hours watched TV yesterday, No.days read paper last week <sup>a</sup>	Enter

a. All requested variables entered.

b. Dependent Variable: Deliberation

		Model Summary												
Model					Change Statistics									
					R									
			Adjusted R	Std. Error of	Square	F			Sig. F					
	R	R Square	Square	the Estimate	Change	Change	df1	df2	Change					
1	.413 <sup>a</sup>	.170	.161	.54544	.170	17.206	4	335	.000					
2	.533 <sup>b</sup>	.285	.272	.50805	.114	26.559	2	333	.000					
3	.546 <sup>c</sup>	.298	.279	.50556	.013	2.098	3	330	.100					
4	.594 <sup>d</sup>	.352	.329	.48774	.055	9.182	3	327	.000					

Model Summary<sup>e</sup>

			ANOVA <sup>e</sup>			
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	20.476	4	5.119	17.206	.000 <sup>a</sup>
	Residual	99.663	335	.298	u l	u l
	Total	120.139	339			
2	Regression	34.186	6	5.698	22.074	.000 <sup>b</sup>
	Residual	85.953	333	.258		
	Total	120.139	339			
3	Regression	35.795	9	3.977	15.561	.000 <sup>c</sup>
	Residual	84.344	330	.256		
	Total	120.139	339			
4	Regression	42.348	12	3.529	14.834	.000 <sup>d</sup>
	Residual	77.791	327	.238		
	Total	120.139	339			

				Coef	ficients <sup>a</sup>						
Мо	del	Unstand	dardized	Standardized						Collinea	arity
		Coeffi	cients	Coefficients			Correlations		Statistics		
			Std.				Zero-				
		В	Error	Beta	t	Sig.	order	Partial	Part	Tolerance	VIF
1	(Constant)	750	.134		-5.607	.000					
	Age	.049	.018	.134	2.694	.007	.128	.146	.134	.997	1.003
	Education	.080	.026	.178	3.123	.002	.302	.168	.155	.761	1.313
	Household income	.063	.015	.234	4.098	.000	.324	.219	.204	.762	1.312
	Sex(femaleness dummy)	164	.059	138	-2.762	.006	172	149	137	.991	1.009
2	(Constant)	615	.130		-4.715	.000					
	Age	.014	.018	.039	.785	.433	.128	.043	.036	.865	1.156
	Education	.061	.024	.135	2.501	.013	.302	.136	.116	.733	1.364
	Household income	.054	.014	.200	3.733	.000	.324	.200	.173	.750	1.333
	Sex(femaleness dummy)	169	.056	142	-2.998	.003	172	162	139	.959	1.043
	Neighbor attachment	.048	.009	.261	5.154	.000	.290	.272	.239	.836	1.196
	Neighbor involvement	.052	.012	.208	4.177	.000	.354	.223	.194	.863	1.158
3	(Constant)	647	.132		-4.923	.000					
	Age	.013	.018	.036	.731	.465	.128	.040	.034	.859	1.164
	Education	.053	.024	.117	2.156	.032	.302	.118	.099	.718	1.392
	Household income	.055	.014	.205	3.841	.000	.324	.207	.177	.749	1.336
	Sex(femaleness dummy)	171	.056	144	-3.056	.002	172	166	141	.956	1.046
	Neighbor attachment	.045	.009	.244	4.778	.000	.290	.254	.220	.819	1.221
	Neighbor involvement	.045	.013	.178	3.484	.001	.354	.188	.161	.811	1.233

	-										
	TPbar_restaurant	.095	.063	.071	1.503	.134	.099	.082	.069	.948	1.055
	TP_nhood	.068	.074	.043	.915	.361	.034	.050	.042	.949	1.054
	TP_club	.137	.063	.110	2.194	.029	.221	.120	.101	.840	1.190
4	(Constant)	622	.144		-4.310	.000					
	Age	.002	.019	.005	.100	.920	.128	.006	.004	.771	1.297
	Education	.039	.024	.086	1.584	.114	.302	.087	.070	.671	1.490
	Household income	.050	.014	.187	3.589	.000	.324	.195	.160	.728	1.374
	Sex(femaleness dummy)	182	.054	153	-3.354	.001	172	182	149	.948	1.054
	Neighbor attachment	.042	.009	.227	4.589	.000	.290	.246	.204	.809	1.237
	Neighbor involvement	.032	.013	.127	2.507	.013	.354	.137	.112	.769	1.300
	TPbar_restaurant	.071	.061	.053	1.150	.251	.099	.063	.051	.941	1.062
	TP_nhood	.055	.072	.035	.770	.442	.034	.043	.034	.947	1.056
	TP_club	.139	.060	.112	2.305	.022	.221	.126	.103	.838	1.194
	No.hours										
	watched TV	017	.012	065	-1.363	.174	210	075	061	.865	1.156
	yesterday										
	Hours listened to radio yesterday	.030	.010	.138	3.027	.003	.138	.165	.135	.958	1.044
	No.days read paper last week	.039	.011	.184	3.624	.000	.348	.196	.161	.766	1.305

a. Dependent Variable: Deliberation

		Exclud	ed Varial	oles <sup>d</sup>				
Model						Collii	nearity S	tatistics
					Partial			Minimum
		Beta In	t	Sig.	Correlation	Tolerance	VIF	Tolerance
1	Neighbor attachment	.298 <sup>a</sup>	5.831	.000	.304	.863	1.159	.761
	Neighbor involvement	.253 <sup>ª</sup>	4.966	.000	.262	.890	1.123	.734
	TPbar_restaurant	.073 <sup>a</sup>	1.450	.148	.079	.983	1.018	.751
	TP_nhood	.038 <sup>a</sup>	.768	.443	.042	.998	1.002	.761
	TP_club	.168ª	3.374	.001	.182	.968	1.033	.751
	No.hours watched TV	112 <sup>ª</sup>	-2.132	.034	116	.883	1.132	.737
	yesterday							
	Hours listened to radio	.172 <sup>ª</sup>	3.487	.001	.187	.981	1.019	.757
	yesterday			i.				
	No.days read paper last	.275 <sup>ª</sup>	5.218	.000	.275	.828	1.208	.721
	week							
2	TPbar_restaurant	.052 <sup>b</sup>	1.117	.265	.061	.979	1.021	.725
	TP_nhood	.019 <sup>b</sup>	.408	.683	.022	.994	1.006	.733
	TP_club	.090 <sup>b</sup>	1.847	.066	.101	.899	1.112	.729
	No.hours watched TV	080 <sup>b</sup>	-1.612	.108	088	.872	1.147	.720
	yesterday							
	Hours listened to radio yesterday	.165 <sup>b</sup>	3.572	.000	.192	.978	1.023	.728
	No.days read paper last	.201 <sup>b</sup>	3.908	.000	.210	.778	1.286	.705
	week	.201	0.000	.000	.210	.770	1.200	.705
3	No.hours watched TV	082 <sup>c</sup>	-1.673	.095	092	.871	1.148	.705
	yesterday							
	Hours listened to radio	.158°	3.435	.001	.186	.972	1.029	.712
	yesterday							
	No.days read paper last	.201 <sup>°</sup>	3.924	.000	.211	.774	1.292	.692
	week							

a. Predictors in the Model: (Constant), Sex(femaleness dummy), Age, Household income, Education

b. Predictors in the Model: (Constant), Sex(femaleness dummy), Age, Household income, Education, Neighbor involvement, Neighbor attachment

c. Predictors in the Model: (Constant), Sex(femaleness dummy), Age, Household income, Education, Neighbor involvement,

Neighbor attachment, TP\_nhood, TPbar\_restaurant, TP\_club

d. Dependent Variable: Deliberation

Collinearity Diagnostics<sup>a</sup>

					Jiiiie				Variano	ce Pr	oportio	ns				
lahom	Dimension	Eigenvalue	Condition Index	(Constant)	ege	Education	Household income	Sex(femaleness dummy)	Neighbor attachment	Neighbor involvement	TPbar_restaurant	TP_nhood	TP_club	No.hours watched TV yesterday	Hours listened to radio yesterday	No.days read paper last week
1	1	4.273	1.000	.00	.01	.00	.01	.02								
	2	.460	3.046	.00	.01	.01	.02	.89							ų	
	3	.163	5.120	.01	.39	.02	.34	.02							i.	
	4	.069	7.877	.05	.25	.50	.64	.01								
	5	.035	11.080	.94	.35	.48	.00	.07								
2	1	4.920	1.000	.00	.00	.00	.00	.01	.00	.01						
	2	1.019	2.197	.00	.00	.00	.00	.00	.80	.00						
	3	.536	3.029	.00	.00	.00	.00	.62	.00	.17			l.			
	4	.278	4.208	.01	.06	.01	.02	.27	.01	.72					ų.	
	5	.150	5.735	.01	.26	.02	.47	.01	.06	.07					ų.	
	6	.065	8.732	.02	.23	.62	.51	.01	.05	.03					u .	
	7	.032	12.335	.96	.44	.35	.00	.08	.08	.00						
3	1	5.825	1.000	.00	.00	.00	.00	.01	.00	.01	.01	.00	.01			
	2	1.051	2.354	.00	.00	.00	.00	.00	.67	.00	.01	.01	.04		i.	
	3	.889	2.559	.00	.00	.00	.00	.00	.05		.00		.09	u .	ļ.	
	4	.766	2.758	.00	.00	.00	.00	.00	.04	.00	.66		.12			
	5	.567	3.206	.00	.00	.00	.00	.54	.00	.09	.10	.03				
	6	.386	3.887	.00	.01	.01	.03	.11	.04	.05	.20	.19			1	
	7	.273	4.615	.01	.06	.01	.01	.24	.01	.74	.00	.00				
	8	.148	6.273	.01	.27	.02	.45	.01	.05	.09	.00	.00				
	9	.063	9.607	.02	.21	.64	.50	.01	.05	.02	.02	.01	.01			
	10	.032	13.516	.96	.44	.33	.00	.08	.08	.00	.00	.01	.00			

4 1	7.494	1.000	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	1.083	2.631	.00	.00	.00	.00	.00	.61	.00	.00	.01	.04	.00	.02	.00
3	.890	2.902	.00	.00	.00	.00	.00	.06	.00	.00	.68	.09	.00	.00	.00
4	.767	3.126	.00	.00	.00	.00	.00	.03	.00	.67	.04	.12	.00	.00	.00
5	.645	3.409	.00	.00	.00	.00	.16	.00	.04	.01	.00	.03	.08	.45	.00
6	.603	3.527	.00	.00	.00	.00	.15	.05	.07	.05	.05	.02	.03	.45	.00
7	.419	4.229	.00	.00	.00	.02	.00	.00	.02	.23	.14	.54	.05	.00	.12
8	.404	4.310	.00	.01	.00	.00	.54	.02	.01	.00	.02	.03	.33	.00	.00
9	.258	5.388	.00	.01	.00	.01	.02	.04	.48	.01	.02	.12	.04	.00	.48
10	.235	5.642	.00	.01	.02	.16	.05	.06	.31	.00	.00	.00	.10	.00	.24
11	.114	8.118	.01	.45	.00	.29	.00	.04	.03	.00	.00	.01	.25	.00	.11
12	.063	10.910	.02	.16	.61	.51	.01	.05	.02	.02	.01	.01	.00	.00	.00
13	.026	17.063	.96	.35	.36	.01	.07	.04	.01	.00	.01	.00	.13	.07	.0

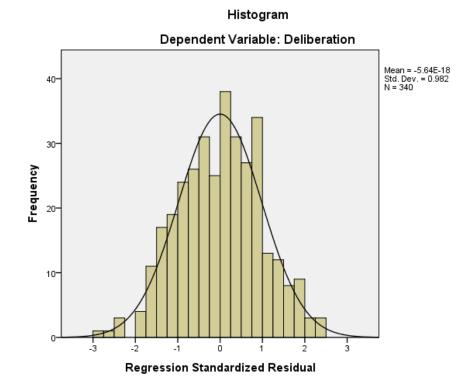
### **Residuals Statistics**<sup>a</sup>

	Minimum	Maximum	Mean	Std. Deviation	Ν					
Predicted Value	8133	.8129	.0037	.35344	340					
Residual	-1.36297	1.16717	.00000	.47903	340					
Std. Predicted Value	-2.312	2.289	.000	1.000	340					
Std. Residual	-2.794	2.393	.000	.982	340					

a. Dependent Variable: Deliberation

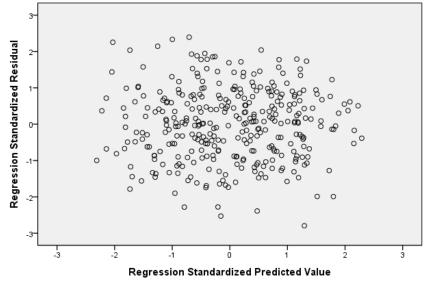
### Charts

\*\*According to the instructions on chapter 2, you might not have below charts.



Scatterplot

Dependent Variable: COMPUTE deliberation=mean(z21, zq22r, z23, z24, z25, z80, z81, z82), alpha=.72



## 4. Tabling Results

### Table 1

Correlations

	Perceived deliberation	Age	Education	Household income	Sex(femaleness dummy)	Neighborhood attachment	Neighborhood involvement	Bar & restaurant	Neighborhood	Club	TV	Radio
Age	.13**											
Education	.30***	00										
Household income	.32***	04	.49***									
Sex (femaleness dummy)	17**	03	08	06								
Neighborhood attachment	.29***	.36***	00	00	.10*							
Neighborhood involvement	.35***	.00	.29***	.25***	14**	.14**						
Bar & restaurant	.10*	03	.12*	.05	.03	.04	.07					
Neighborhood	.03	03	01	02	03	.04	.03	05				
Club	.22***	.11*	.14**	.07	02	.17**	.27***	12*	18**			
TV	21***	.11*	27***	29***	.07	.01	20***	04	02	03		
Radio	.14**	11*	08	02	01	05	.03	.05	.05	.00	07	
Newspaper	.35***	.31***	.26***	.15**	.03	.24***	.27***	.10*	.00	.10	10*	.04

### Table 2

Prediction of perceived deliberation by media use

	r	Final $\beta$	$R^2$ change
Block1: Demographics			.17***
Age	.13**	.01	
Education	.30***	.09	
Household income	.32***	.19***	
Sex(femaleness dummy)	17**	15**	
Block2: Neighborhood relationship			.11***
Neighborhood attachment	.29***	.23***	
Neighborhood involvement	.35***	.13*	
Block3: Third places			.01
Bar & restaurant	.10*	.05	
Neighborhood	.03	.04	
Club	.22***	.11*	
Block4: Media use			.06***
No of hours watched TV yesterday	21***	07	
Hours listened to radio yesterday	.14**	.14**	
	.35***	.18***	

Total  $R^2$ =.35, adjusted  $R^2$ =.33,  $F(12, 327) = 14.83, p \le 001$ 

### 5. Write up of results

In the prediction of perceived deliberation, a four-block hierarchical multiple regression analysis was conducted. Multicollinearity tests using condition index and regression coefficient variance-decomposition matrix, tolerances and VIFs indicated that the analysis has no multicollinearity problem (all tolerances  $\geq$  .67, VIFs  $\leq$  1.49), and the analysis result indicates that 12 predictors explain 35.2% of the total variance of perceived deliberation (*F* (12, 327) = 14.83, *p*  $\leq$  .001).

First, the demographics block, including age, education, household income, and sex, explains 17% of total variance of perceived deliberation (F (4, 335) = 17.21,  $p \le .001$ ). Household income is a significantly positive ( $\beta = .19$ ,  $p \le .001$ ) unique predictor of perceived deliberation, and sex (female) is a significant negative unique predictor of perceived deliberation ( $\beta = -.15$ ,  $p \le .01$ ). As a result, as household income is higher perceived deliberation will increase, and men's perceived deliberation is higher than women's perceived deliberation, when all other predictors are controlled for.

Second, the neighborhood block, including the neighborhood attachment and neighborhood involvement scales, explains additional 11.4% of total variance of the perceived deliberation (*F* (2, 333) = 26.56,  $p \le .001$ ). Neighborhood attachment ( $\beta = .23$ ,  $p \le 001$ ) and neighborhood

involvement ( $\beta = .13$ ,  $p \le .05$ ) are significant positive unique predictors of perceived deliberation. As a result, as neighborhood attachment increase and neighborhood involvement increase, perceived deliberation increases, when all other predictors are controlled for.

Third, the third places block, including bar and restaurant, neighborhood, and club scales, does not explain a significant additional amount of variance in perceived deliberation (F (3, 330) = 2.10, p = .1). Thus, we do not examine the significance of any individual predictors in this block.

Fourth, the media use block, including number of hours watching TV, number of hours listening to radio, and number of days reading the newspaper, explains additional 5.5% of total variance of perceived deliberation ( $F(3, 327) = 9.18, p \le .001$ ). Number of days reading the newspaper ( $\beta = .18, p \le .001$ ) and number of hours listening to radio ( $\beta = .14, p \le .01$ ) are significant positive unique predictors of perceived deliberation. That is, as people listen more to radio and read newspapers more frequently, perceived deliberation increases, when all other predictors are controlled for.