BACKGROUND VARIABLES AND OPINIONS IN THE 1972-1977 NORC GENERAL SOCIAL SURVEYS: TEN GENERALIZATIONS ABOUT AGE, EDUCATION, OCCUPATIONAL PRESTIGE, RACE, RELIGION, AND SEX,

AND FORTY-NINE OPINION ITEMS

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### ABSTRACT AND SUMMARY

This paper analyzes forty-nine opinion items from the pooled 1972-1977 NORC General Social Surveys to review the patterns of association between background variables (Age, Education, Occupational Prestige, Race, Region, Religion, and Sex) and opinions. The following ten conclusions emerged:

(I) Considering interrelations among the predictors, (a) it is not strictly necessary to control for any of the others when looking at Sex, (b) when working with Age, control Education, (c) when working with Education, control Age, Occupation, and Race, (d) when working with Occupational Prestige, control Education and Race, (e) when working with Race, control Education, Occupation, Region, and Religion, (f) when working with Region, control Race and Religion, and (g) when working with Religion, control Race and Region.

(II) (a) Every attitude item in the set is significantly associated with some background variable and the vast majority show significant net associations with most background variables, (b) the average difference is small (about .100) but the cumulative effect is usually substantial,
(c) the differences are a bit stronger for "social issues" and a bit weaker for "values."

(III) Education is a persistent, but not terribly consistent, predictor of attitudes. Better educated people tend to be more permissive, more progressive, and generally less "uptight." College tends to produce stronger effects than High School.

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(IV) Occupational Prestige is a poor net correlate of attitudes and opinions, although it shows appropriate associations with other subjective variables.

(V) Age is a persistent and consistent correlate of attitudes. There is no evidence that the gap between "young" and "middle aged" is larger than that for "middle" and "older." The attitudes characteristic of younger people are almost always those associated with greater education.

(VI) Race is the most powerful predictor of attitudes and opinions. The content cuts across the pattern for Education, suggesting a cultural rather than stratum interpretation.

(VII) Region is usually, but not invariably, correlated with attitudes. Living in the South and having Less Education almost always operate in the same direction.

(VIII) Religion (Protestant v. Catholic) has significant associations with about half the items. The religious differences cut across the Educational lines. Blacks and Catholics tend to have similar positions.

(IX) Race-Region-Religion-Attitude tend to form systems of suppressor variables.

(X) Sex differences appear for about half the items. Men's opinions tend to line up with those of the Better Educated.

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#### Introduction

"Background characteristics" such as Age, Education, Occupation, Race, Region, Religion, and Sex are the plow horses of attitude research outside the laboratory. Although theoreticians urge us to place our bets on sleeker contenders such as interpersonal influence, networks, organizational contexts, attitude consistency, sociobiology, and response bias, the most common form of attitude research, academic and commercial, amounts to hitching a dependent variable to one or more background characteristics.

Such face-sheet sociology, while notoriously atheoretical, actually involves an implicit set of propositions something like this:

- Attitudes and opinions are "really" determined by the intervening variables of interpersonal contagion, early socialization, selective exposure to media, self-interest, and the like, not as direct effects of background characteristics.
- 2) However, a modern society is structured so persons with different background characteristics are exposed to rather different mixes of persons, rearings, and media; and in some cases (e.g., Race) the categories reflect different or competing interests.
- 3) Therefore, structural categories correlate with attitudes even though they aren't direct causes.
- 4) Since data on background variables are widely available, reliably measured (by social science standards) and comparable over time, the analyst can examine correlations between background characteristics and attitudes and draw inferences about the state of the intervening social variables. For example, one can look at sex correlations to infer things about sex role socialization; one can look at occupation and presidential vote to infer things about class conflict.
- 5) Beyond that, face-sheet sociology, unlike more theoretically sophisticated approaches, generally produces significant (if not huge) and persistent correlations (e.g., Glenn, 1967, 1974).

As a first approximation, one can sort these measures into three clumps, (1) the vertical dimension of socioeconomic status (SES), (2) the

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horizontal dimension of "subcultures," and (3) a sociobiological dimension of time and gender.

Sociologists disagree about the best measures of SES, but social research has shown an enduring interest in the association between attitudes and social standing (Centers, 1949; Hyman, 1953; Stouffer, 1955; Lipset, 1959; Kohn and Schooler, 1969; Hamilton, 1972; Nie, Verba, and Petrocik, 1976; Curtis and Jackson, 1977). The broad sweep of findings (though not their interpretation) is consistent from study to study and was forecasted clearly in Centers' summary (1949, pp. 215-216).

... in the matter of anti-Negro prejudice the working class people are somewhat more anti-Negro than the middle class people.

. . . The middle class appears to be somewhat more liberal than the working class with respect to the economic freedom of women.

. . As a group the working class shows less support than the middle class for such traditional American assumptions as that success depends on ability.

. . . With respect to values or desires the principal finding is that people in the middle class most typically manifest a desire for self-expression, while those that affiliate with the working class most typically express a desire for security.

Stouffer's 1954 classic survey added another persistent theme, summarized by Lipset (1960, p. 92).

> The poorer strata everywhere are more liberal or leftist on economic issues . . . But when liberalism is defined in noneconomic terms--as support of civil liberties, internationalism, etc.--the correlation is reversed.

Typical SES variables are Education, Occupation, Income, and Social Class Self-Placement.

The second cluster of variables, Race, Region, Religion, National Origin, and Size of Place may be viewed as a separate dimension of <u>unranked</u>, <u>relatively permanent</u> positions in society. There is high agreement on the ordering of occupations in terms of prestige and on the obvious

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rankings of educational levels and incomes, but there is presumably much less consensus on whether the South is superior to, say, the West; whether Catholicism or Judaism is a better religion, etc. Race is an interesting test case. Of course, whites and blacks differ in SES; but in most subgroups of the U.S. and in all public rhetoric there is no agreement that--for blacks and whites of the same SES--one or the other color is superior.

Analysts frequently assume these categories and their combinations (e.g., Southern Black, Second Generation Northern White Catholic) define subcultures within which differences in basic values persist and shape positions on specific issues.

Race is probably the most salient distinction here, but aside from the remarkable political sensitivity of blacks (once Republican, they are now massively Democratic and show persistent commitment to "New Deal" positions on political issues; see Nie, Verba, and Petrocik, Chapters 13 and 14) the few studies available (Broom and Glenn, 1966; Glenn, 1975) have not developed handy generalizations. Neglect of the topic is probably explained by statistical problems rather than "racism." Blacks constitute a small proportion of national cross-sections (about 150 cases in a survey of 1,500 respondents) and one should control Religion, Region, and SES for a non-superficial analysis (see below).

Regional differences in attitudes (mostly South v. Non-South) have been well documented (Glenn and Alston, 1967; Nie, Verba, and Petrocik, 1976, chapters 13 and 14; Reed, 1975; Middleton, 1976). The rule of thumb is simple: Southerners (most investigators mean white Southerners) tend to be more "conservative," the other regions don't differ much, and when they do, it is typically West v. Midwest and East.

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While the extensive and complex findings defy simple summaries, there is considerable evidence that the Religion-National Origin combinations among whites, which we call "ethnicity," are associated with attitude and opinion differences (Greeley, 1974, 1977). Jews tend to be overwhelmingly "liberal," so consistently they usually stand out even when they comprise a mere thirty cases out of 1,500. Popular opinion and some stereotypes among sociologists aside, the Catholic population tends to be more "liberal" than Protestants, not less liberal.

Size of Place, though complicated by the Central City v. Suburb distinction, yields another rule of thumb (Fischer, 1976; Glenn and Hill, 1977). As Fischer puts it:

> As a general rule, the larger the size of the community, the more likely it is that individuals will hold unconventional values and beliefs. . . This appears to be almost universally true--across different cultures, periods of history, and different realms of life. (p. 192.)

The social-biological variables, Age, Sex, and Marital Status, form a third cluster, although I do not wish to imply their effects are all similar. Age is one of the simplest variables to measure, but its interpretation is often subtle and complex because correlations between age and a dependent variable can be interpreted as effects of cohort (when you were born and grew up), aging (how far you are on the road to senescence), or period (some say voters exposed to Franklin D. Roosevelt showed imprinting decades later). Furthermore, age has peculiar associations with SES. Younger adults are much better educated but, aside from that, tend to have slightly less desirable "entry level" jobs.

Sex differences are so interesting as to constitute a sub-discipline in social science, but the literature on sex differences in national

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cross-sections is meager. Perhaps the best summary stems from Stouffer (1955)--young people tend to be more "liberal," women tend to be more "conservative." I am not aware of any generalization on Marital Status and opinions, although being married (along with being white) is about the best correlate of subjective reports of Happiness.

So far, I have argued background characteristics and their associations with attitudes and opinions are a continuing theme for important research in sociology despite agreement that such data are only a reflection of the underlying causal processes. By examining the ways Americans in the familiar face-sheet pigeonholes differ in attitudes and opinions, we may infer a good deal about how social structure influences lives in modern societies.

Such a large canvas is unlikely to be completed soon, if ever; but it may be useful to stand back occasionally to appraise it. While each of the cited studies is important, none seems preemptive since (a) many are dated, (b) few cover a broad spectrum of attitude content, (c) control variables differ from study to study, and (d) the most compre-1977 hensive (Curtis and Jackson) is based on local, not national, samples. Therefore, it may be useful to examine how and whether background characteristics are associated with a variety of attitude items in national samples in the middle 1970s. Specifically, this paper examines the associations between background variables and attitude items in recent national cross sections:

- 1) Across a variety of topics;
- 2) Controlling for as many other background variables as are required;
- 3) Looking for themes, such as "liberalism" and "conservativism," that might pull the results together.

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# Data and Independent Variables

The NORC General Social Survey (Glenn, Converse, Cutler, and Hyman, 1978) provides an appropriate data base for such a review. I will use the 1972-1977 cumulative GSS file to assess the net effects of Age, Educational Attainment, Occupational Prestige, Race, Region, Religion, and Sex on forty-nine attitude items.

The seven background variables chosen need no further justification but certain exclusions do.

In the SES cluster, I did not use Income or Subjective Class Placement. Income was excluded because it is complicated (one would have to allow for inflation, multiple earners, family composition, etc.) and because there is some suspicion it is a poor attitude predictor (e.g., Grabb, 1979). Subjective Class was excluded because it seems more toward the "dependent attitude" than the "independent background characteristic" pole.

In the subculture cluster, I did not use Community Type or Size of Place, frankly because I hadn't reviewed the literature sufficiently when I designed the tabulations. In the sociobiological cluster, Marital Status was ignored because there is no literature claiming it to be a good predictor of attitudes (as opposed to self-ratings of morale, mental health, happiness, anomia, etc.). Since the data are in the public domain, readers are invited to make up for my deficits by working with these and other predictors.

Table 1 gives the definitions, cuts, and marginals for the six items, with figures taken from the cumulative code book for 1972-1977. Ns in the multi-variate tabulations involving attitudes will be smaller because of "no answers" and because some attitude questions do not appear

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Variable	Categories	N	Proportion
l. Age	54 and older 34 - 53 18 - 33	2,953 3,087 <u>3,047</u> 9,087	.325 .340 <u>.335</u> 1.000
	No Answer	$\frac{33}{9,120}$	
2. Race	Black White (7,983) or Other (52)	1,085 8.035	.119
	01 0 cmer (52)	9,120	1.000
3. Sex	Female Male	4,889 <u>4,231</u> 9,120	.536 $.464$ $1.000$
4. Current Region	South <sup>a</sup> Other	2,945 <u>6,175</u> 9,120	.323 .677 1.000
5. Current Religious Preference	Catholic Protestant	2,303 <u>5,855</u> 8,158	.282 .718 1.000
	Excluded: None Jewish Other No Answer	$   \begin{array}{r}     600 \\     225 \\     116 \\     \underline{21} \\     \overline{9,120}   \end{array} $	
6. Education = highest grade completed and got credit for	<pre>1 or more years of college 12th grade 0 - 11th grade Don't Know or No Answer</pre>	2,759 2,999 <u>3,330</u> 9,088 <u>32</u> 9,120	.304 .330 <u>.366</u> 1.000
7. Prestige of Respondent's Occupation (Hodge, Siegel, Rossi scale) answers to "What	46 - 82 33 - 45 12 - 32 Not applicable Don't Know or	2,794 2,558 <u>2,895</u> 8,247 832	.339 .310 <u>.351</u> 1.000
kind of work do you (did you) normally do?"	No Answer	$\frac{41}{9,120}$	

BACKGROUND VARIABLES USED AS PREDICTORS OF ATTITUDES

<sup>a</sup>Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, Washington D.C., West Virginia. in each GSS. Tabulation Ns range from 2,690 to 7,844 with a median of about 5,300 (see Table 7). Three items appeared in six surveys, fourteen in five, eighteen in four, twelve in three, and two items in two years.

Age is divided into equal thirds by the intervals 18-33, 34-53, and 54 and older (33.5 percent, 34.0 percent, and 32.5 percent). For race, the small number of Others (N=52) are grouped with whites (N=7,983) so the dichotomy is Black (11.9 percent) v. Other (88.1 percent). Sex shows 53.6 percent female, 46.4 percent male. Region is cut as South (32.3 percent) v. Other. Religion is divided into Catholic (28.2 percent) and Protestant (71.8 percent) with None (N=600), Jewish (N=225) and Other (N=116) excluded to avoid sparse cells in the multi-variate tabulations. The loss of detail is regrettable but Protestants and Catholics do comprise 89.6 percent of these non-NA cases. The standard educational trichotomy, 0-11 grades, 12th, one or more years of college, splits the cases into approximate thirds (36.6 percent, 33.0 percent, and 30.4 percent). For Occupational Prestige, Hodge-Siegel-Rossi scores of 12-32, 33-45, and 46-82 trichotomize the cases almost evenly (35.1 percent, 31.0 percent, and 33.9 percent). Table 2 shows the prestige scores are (as is well known) closely but not perfectly associated with the standard Census occupational groupings: 87.2 percent of the "highs" are Professional, Technical, Managers, Proprietors, or Clerical while 83.8 percent of the "lows" are service workers, operatives, or laborers. Conversely, each Census category, save clerical, has a clear majority in one of the thirds: Professional and Technical = 94.6 percent High, Managers and Proprietors = 89.2 percent High, Craftsmen = 70.6 percent Middle, Sales = 65.9 percent Middle, Farm = 72.9 percent Middle, Service =

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Group	Pr	estige Sco	re	Total	N	
Group	12-32	33-45	46-82	IOCAI		
		A				
Professional, Technical	.000	.054	.946	1.000	1,431	
Managers, Proprietors	.000	.108	.892	1.000	872	
Clerical	.140	.458	.401	.999	1,901	
Craftsmen, etc	.091	.706	.203	1.000	1,212	
Sales	.177	.659	.164	1.000	560	
Farm	.271	.729	.000	1.000	258	
Service	.709	.229	.062	1.000	1,389	
Operatives	.878	.122	.000	1.000	1,666	
Laborers	1.000	.000	.000	1.000	362	
- Total	.348	.308	.344	میں انہا ہے۔ انہ انہ ہے	9,651	
				No		
				Answer	1,001	
					10,652	
		В	······································	····		
Professional, Technical	.000	.026	.408			
Managers, Proprietors	.000	.032	.234	872		
Clerical	.080	.293	لـ 230.			
Craftsmen, etc	.033	.288	.074			
Sales	.030	.124 .8	.028			
Farm	.021	.063	.000			
Service	.294	.107	.026			
Operatives	.436 .8	38.069	.000			
Laborers	.108	.000	.000			
- Total	1.002	1.002	1.000			
	N =	9,651				

U.S. CENSUS MAJOR GROUP AND HODGE-SIEGEL-ROSSI PRESTIGE SCORE (GENERAL SOCIAL SURVEYS, 1972-78 POOLED)

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70.9 percent Low, Operatives = 87.8 percent Low, Laborers = 100.0 percent Low. Clerical workers, however, are spread fairly evenly between High and Middle.

No background item has more than forty-one No Answer cases (0.4 percent) except for Occupation with 832 cases (9.1 percent), virtually all women with no labor force experience, who were coded as Not Applicable. Thus, in tabulations involving occupation, the conclusions do not automatically apply to women with no labor force experience.

Having defined the predictor variables, let us examine their patterns of association. I specified the causal order as:

 $AGE \rightarrow RACE \rightarrow SEX \rightarrow REGION \rightarrow RELIGION \rightarrow EDUCATION \rightarrow OCCUPATION$ 

The order is rather arbitrary and I won't attempt to defend it to the death. My main thoughts were these: since Race and Sex are fixed, they should be at the beginning and their own order is unimportant, assuming them to be uncorrelated. However, I used Age as the source variable because, viewing it as date of birth, no other variable in the system could affect it, but there is the slight possibility it might affect other variables through differential mortality, cohort differences in education, or life cycle differences in prestige. Region and Religion came next as attributes that, while not perfectly ascribed, are quite sticky (unpublished data from pooled GSS files show 86.3 percent of the Protestants, Catholics, Jews, Others, and Nones giving the same category for "In what religion were you raised?" and 86.5 percent of the Southerners and "Northerners" giving the same half of that dichotomy for "In what state or foreign country were you living when you were 16 years old?"). Placing Region before Religion is essentially arbitrary and intuitive. Education is taken as a possible function of all the

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prior variables, and Occupation, in most cases the current job, as dependent on Education, since most respondents in this adult sample are finished with school.

D-systems, the analysis technique used throughout (Davis, 1975d), requires that one category of each polytomy be "removed" and treated as a base. For the three ordered variables, Age, Education, and Occupational Prestige, the middle category was chosen as a base since this specification, as will be shown later, illuminates the "shape" of relationships.

Table 3 shows the significant partial (net prior and intervening variables) associations in the cross-tabulation of these six variables using pooled 1972-1977 GSS data (N=8,558). Since all non-significant associations had absolute percentage differences of .023 or less, they are excluded for simplicity.

The coefficients may be interpreted as follows: Net of prior or intervening variables in the system . . .

Compared with those 34-53 years old . . .

Younger adults (18-33 years old) are more likely to be Catholic, older adults (54-89 years old) are less likely to be Catholic (i.e., Catholicism is negatively related to age).

Younger adults are more likely to have completed a year of college and less likely to have 0-11 years while older adults show the opposite (i.e., education is negatively related to age).

Younger adults are more likely to have low status jobs (12-32), less likely to have high status jobs (46-82). Older adults do not differ from the middle group.

Compared with whites, blacks are . . .

less likely to be Catholic.

less likely to have completed a year of college and more likely to have 0-11 years (i.e., blacks are less well educated).

less likely to have high prestige jobs and more likely to have low prestige jobs (i.e., regardless of other variables, such as Region and Education, blacks have lower occupational prestige).

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STATISTICALLY SIGNIFICANT NET ASSOCIATIONS AMONG CATEGORIES OF REDICTOR VARIABLES <sup>4</sup> Variable/Contrast         Dependent Category         Education         Occupation           1         4-53	atholic v. Protestant038 (.032) (.032)
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TABLE 3

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TABLE 3--Continued

Ward at 1 - / Can take at	Dependent Category				Education		Occupation	
	Black	Female	South	Catholic	College	0-11	46-82	12-32
Education:								
College v. 12							+.338 (.036)	201 (.028)
0-11 v. 12							195 <sup>b</sup> (.028)	+.293 (.036)

<sup>a</sup>Cell entry = net d. Two sigma confidence intervals appear in parentheses below and to the right. Estimated sampling variances are all doubled to correct for clustering in multi-stage samples. No nonsignificant d exceeds .023 in absolute magnitude. N = 8,558. Zero frequency cells = 65 out of 432.

Marginals and intercepts with two sigma confidence intervals: 18-33 = .308 (.014), 54-89 = .338 (.014), Black = .117 (.016), Female = .530 (.028), South = .307 (.036), Catholic = .397 (.046), College = .402 (.060), 0-11 = .282 (.056), 46-82 = .281 (.098), 12-32 = .299 (.100).

<sup>b</sup>Interaction significant at .05 level. See text and Table 4 for explanation.

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Compared with men, women are . . .

Less likely to have one or more years of college and less likely to have 0-11 years of school (i.e., women are more likely to have 12 years).

A little more likely to have low prestige jobs.

Compared with Protestants, Catholics are . . .

less likely to have one or more years of college.

Compared with those with 12 years of education . . .

those with a year or more of college are more likely to have high prestige jobs and less likely to have low, those with 0-11 years of schooling show the opposite (i.e., education is positively related to job prestige).

Of the thirty-nine possibilities, four show interaction effects significant at the .05 level. In these four cases the chi-square test leads us to reject the hypothesis that the same  $\hat{d}$  fits in all control (conditional) tables. Table 4 shows how these interactions boil down to two results.

Table 4a shows that Region makes a smaller difference in Catholicism for blacks ( $\underline{d} = \pm .050$ ) than for whites ( $\underline{d} = \pm .149$ ) or equivalently Race makes a smaller difference in Catholicism in the South ( $\underline{d} = -.163$ ) than in the North ( $\underline{d} = -.262$ ) or equivalently Northern whites and Southern blacks are relatively more Catholic than Southern whites and Northern blacks.

Table 4b shows the association between Sex and Occupational Prestige varies by level of education. Among those with college or 12 years of school, the sexes have very similar prestige distributions, but among those with 0-11 years of school, males show a surplus in the middle prestige group, females in the low. My interpretation: among those with 0-11 years of schooling, neither sex has much chance for a high prestige job, but the masculine monopoly of crafts jobs gives them a greater proportion with middle prestige occupations.

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a)	Race, 1	Region,	and H	Religion	(Proport:	ion Cath	noli	.c)
Reg	ion			R Other	ace Bla	ck		Diff.
North	••••	••••	. 39:	2 (5,232.0	.130	4.5) <sup>a</sup>		262
South	• • • • • • • • •	• • • • • • •	.243	3 (2,297.5	.080 ) <sup>a</sup> (53	6.5) <sup>a</sup>		163
Dif	f	• • • • • • • •	+.149	9	+.050			
b) Sex, Education, and Occupational Prestige								
Education	Sex	12-	Prest: 32	ige Propo 33-45	rtions 46-82	Sur	n	N
College	Male Female	e .1:	24 10	.243 .249	.633 .642	1.00	00 01	1,346.0 1,184.5 <sup>ª</sup>
Diff.	• • • • • • • • •	+.0	14	006	009			
12 years	Male Femal	.3 e .3	32 09	.404 .351	.263 .340	.9 1.0	99 00	1,203.5 <sup>a</sup> 1,799.0
Diff.	•••••	+.0	23	+.053	077			
0-11 years	Male Femal	.5 e .6	01 92	.379	.120	1.0	00 00	1,565.5 <sup>a</sup> 1,492.0
Diff.	•••••	1	91	+.146	+.045			

SIGNIFICANT INTERACTIONS FOR ASSOCIATIONS IN TABLE 3

<sup>a</sup>Decimal values occur because frequencies of .05 were added to cells with zero frequencies to facilitate calculations without influencing the results appreciably.

Interactions aside, these findings are all well known. Perhaps the greatest surprise may be the absence of significant associations between age and sex. Tabulations from the 1975 Current Population survey suggest we should have a d of about +.043 for older v. middle age by proportion female, while the data give a net d of -.020 (±.036). The "correct" answer is outside the confidence limits and I suspect the elimination of women with no job histories, mentioned above, is the explanation, since the secular trend in women's employment means these women are older. What is more important is the size and pattern of the associations. With our large sample even small associations can be significant. Of the twenty-five significant  $\hat{d}$ 's in Table 3, twelve are less than .10 in absolute magnitude and fifteen are less than .15. The largest inter-category net associations, those stronger than .15, are:

College and High Prestige	+.338
0-11 Schooling and Low Prestige	+.293
Older age and O-11 Schooling	+.223
South and Catholic	204
Black and Low Prestige	+.203
Black and South	+.201
College and Low Prestige	201
0-11 Schooling and High Prestige	195
Black and 0-11 Schooling	+.185

Figure 1 shows all net  $\underline{d}$ 's with magnitudes larger than .10 in flowgraph form.

The empirical associations cut across the conceptual clusters outlined above and their pattern allows us to simplify the analysis a bit.

First, since Sex has no strong associations at all (its largest association is -.055) we need not use to as a control for other variables. When looking at sex differences in attitudes there is no pressure to

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Fig. 1. Flow graph for coefficients exceeding .100 in Table 3

control for Age, Race, Region, Religion, Education, or Occupation (if, for example, Sex and College were both associated with some dependent attitude, then Sex by Dependent effect would have to be almost 1.000 before Sex affected the College by Dependent association by as much as .05 since, by path principles, .91 \* .055 = .050).

Second, neither Region nor Religion has strong associations with background variables other than Race. Popular impressions aside, among adult cross-sections in the middle-1970s, Protestant-Catholic and North-South differences in Education and Occupational Prestige (controlling for Race) are slight.

Third, the Age-Race-Education-Occupation cluster is tight enough that it would be dangerous to examine any one without controlling for the other three. The cluster may be seen as a function of three phenomena: (a) Whether interpreted as credentialism or return on investment, there is a very tight association between Educational attainment and Occupational Prestige (four of the nine associations larger than .10 in Table 3 involve this pair of variables and the differences would be even larger if either or both had been dichotomized). (b) The generational (inter-cohort) differences in Educational attainment, in particular the secular trend toward high school completion, are substantial. Among those age 54-89 in the middle 1970s, 54.6 percent report 0-11 years of schooling while among those 18-33, the percentage is down to 18.7. High school dropouts are a majority among older adults, a small minority among young adults. (c) Despite progress toward racial equality, the association between Black and low Education and low Prestige remains unfortunately salient.

Traces of progress toward racial equality do appear in the data, however, in the form of interaction effects, as shown in Table 5.

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# TABLE 5

# INTERACTIONS (VARIATIONS IN ASSOCIATIONS WITH RACE) FOR DATA IN TABLE 3

A. Race, Age, and Education (cell entry equals value of d)									
Association		Age		Test for Homogeneity					
	18-33	34-53	54-89	Chi Sq.	d.f.	Prob.			
Black by propor- tion college	071	073	136	3.3	2	.194			
Black by propor- tion 0-11	+.135	+.204	+.241	4.5	2	.105			

B. Race, Age, Education, and Low Prestige

Education	10.00	Age	<u> </u>	
	18-33		<u> </u>	
		В(.	L)	
(d for blac	ck by pro	oportion (	)-32, 4 var	riable cross-tab) —
College	+.071	+.145	+.400	
12 years	+.172	+.290	+.361	<i>.</i>
0-11 years	+.080	+.134	+.297	
		B(:	2)	
(Mean d f 8 cont	or black rol cond	and prop itions in	ortion 0-3 7 variabl	2, averaged over e cross-tab) —
College	+.092	+.171	+.343	·
12 years	+.149	+.239	+.304	
0-11 years	026	+.039	+.230	

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с.	Race, Age,	Educati	on, and Hi	igh Prestige					
Education	18-33	Age 34-53	54-89						
C(1)									
(d for black by proportion 46-82, 4 variable cross-tab)									
College	078	286	371						
12 years	185	220	167						
0-11 years	008	029	105						
	<u> </u>			Homogeneity Chi Sq. = 32.0, d.f. = 8, Prob. = <.001					
		C(	2)						
(d for 8 con	c black by trol cond	proport	ion 46-82, n 7 variab	average over le cross-tab)					
College	080	324	365						
12 years	153	191	130						
0-11 years	+.069	+.048	+.018						

Table 5A gives the associations between Race and Education in different age groups, collapsing out Sex, Region, Religion, and Occupation. Although the interaction is not statistically significant, the sample results suggest smaller racial differences in educational attainment within the younger ages (i.e., newer birth cohorts).

Occupational Prestige (Tables 5B and 5C) shows a statistically significant and even sharper trend.<sup>1</sup> Table 5B treats race differences

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TABLE 5--Continued

<sup>&</sup>lt;sup>1</sup>If the differences in Tables 5Bl and 5B2 are significant, why didn't we get significant interactions for Race and Occupation in Table 3? In Table 3, each Race-by-Occupation-Within-Education difference has eight replications among the combinations for Sex, Region, and Religion. Tables 5B2 and 5C2 show the results in the full cross-tab are essentially

in the proportion with low status jobs, net of Education. A positive coefficient means blacks are more likely to have low status jobs than whites in the same educational level. In each educational level the coefficients decline as one moves from the oldest to the youngest adults. Among those ages 54-89, the average of the three coefficients is a discouraging +.352, while among adults age 18-33, the average, while still positive, is +.108. The same pattern appears, in reverse, for high prestige jobs among those with some college and for those with 0-11 years. Among those with 12 years, the age differences in the race by prestige association are trivial. In sum, race differences in education and prestige remain, but the lower race differences among the younger adults (newer birth cohorts) reveal progress toward equality.

The results in Figure 1 motivate the following conclusion on the inter-relations among background variables:

## Conclusion I

When considering Age, Education, Occupational Prestige, Race, Region, Religion, and Sex: (a) it is not strictly necessary to control for any of the others when looking at Sex and a dependent variable; (b) when working with Age, control Education; (c) when working with Education, control Age, Occupation, and Race; (d) when working with Occupational Prestige, control Education and Race; (e) when working with Race, control Education, Occupation, Region, and Religion; (f) when working with Region, control Race and Religion; and (g) when working with Religion, control Race and Region.

Table 6 summarizes Conclusion I.

the same as in the four-variable table. However, inspection of the raw results shows no interactions with Occupation for Sex, Region, or Religion. Thus, I suspect that the large number of subtables that show no Occupation interaction "dilute" the effects of Race-Age-Education. The situation is analagous to analysis of variance where the overall F ratio can be insignificant although some of the means differ considerably.

#### TABLE 6

	One would do well to control								
When studying	Sex	Age	Edu- cation	Occupa- tional Prestige	Race	Region	Religion		
Sex									
Age			Yes						
Education		Yes		Yes	Yes				
Prestige			Yes		Yes				
Race			Yes	Yes		Yes	Yes		
Region <sup>a</sup>					Yes		Yes		
Religion <sup>b</sup>					Yes	Yes			

ADVICE FOR CONTROLS ON THE BASIS OF FINDINGS IN TABLE 3

<sup>a</sup>South v. Non-South.

<sup>D</sup>Protestant v. Catholic.

Table 6 helps in planning the contingency table analysis since it says one does not have to cross-tabulate everything against everything. Instead, one can cover all the important controls by making three basic tabulations: (1) zero orders for Sex, (2) Race, Age, Education, Prestige, and (3) Race, Region, and Religion.

## The Dependent Variables

Inspection of the 1972-1977 GSS codebook revealed forty-nine items that (a) appeared in two or more years, (b) had non-extreme marginals, and (c) treated attitudes in the sense of asking whether the respondent is for or against something. I excluded measures of morale, happiness, and other self-assessments because they seem to be a different phenomenon. Other than that, the dependent items boil down to virtually all attitude measures in the GSS. Table 7 summarizes the forty-nine attitude items, arranged in common sense groups. For further details, see the GSS codebooks.

The eleven National Priority items ask whether the country should be spending more or less on foreign aid, military, big cities, fighting crime, drug addiction, education, environment, welfare, health, blacks, and space. These are the most topical of the forty-nine and their marginals shift from year to year more than most GSS items. However, unpublished analyses suggest that the pattern of correlations with Age and Education, at least, is remarkably stable from year to year. Presumably the items tap "liberalism and conservativism" in political issues and to some extent conflicts in group interests.

Five items attempt to get at occupational values--short hours, high income, feeling of accomplishment, chances for advancement, and security.

Six items attempt to assess more general values in terms of qualities one would find most desirable in a child--consideration, honesty, manners, obedience, sex role conformity, and studiousness.

Although they come from various parts of the schedule, four items were grouped together as measures of attitudes toward the social system in general: distrust of public officials, hard work v. luck, trust in people, and commitment to work.

Eleven items cover a range of topics relating to families, sex, children, etc. Three refer to women's roles (women should leave running the country up to men, whether married women should work, and vote for a woman presidential candidate); three to sex behavior (approval or disapproval of premarital sex, adultery, and homosexuality); two items

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# TABLE 7

# DEPENDENT ATTITUDE ITEMS<sup>a</sup>

(roun/Itom Contont (Paranhrana)	GSS	Po	sitive Cut		Negati	ve Cut
Group/Item Content (raraphrase)	MNEMONIC	Content	Punches	Prop.	Punches	N/Years
l. National prioritiesShould we spend more or less on:						
Foreign aid Military, armaments, defense Solving problems of big cities Halting rising crime rate Dealing with drug addiction Improving the nation's education system Improving and protecting the environment Welfare Improving and protecting the nation's health Improving the conditions of blacks. Space exploration program	NATAID NATARMS NATCITY NATCRIME NATCRIME NATEDUC NATEDUC NATENVIR NATFARE NATHEAL NATRACE NATSPAC	*Pro Anti Pro Anti Anti *Pro Pro *Pro Pro Pro Pro	1,2 3 1 2,3 2,3 1 1 1,2 1 1 1,2	.241 .322 .528 .304 .368 .513 .587 .463 .631 .308 .400	3 1,2 2,3 1 1 2,3 2,3 3 2,3 2,3 3	7,118/5 6,973/5 6,447/5 7,054/5 6,965/5 7,190/5 7,028/5 7,137/5 7,191/5 6,947/5 7,183/5
2. Thing you would most prefer in a job (ranking) Working hours are short, lots of free time High income Work important and gives a feeling of accomplishment Chances for advancement No danger of being fired	JOBHOUR JOBINC JOBMEANS JOBPROMO JOBSEC	*Pro Anti Pro Pro Anti	1-4 3-5 1 1,2 4,5	.514 .576 .499 .544 .587	5 1,2 2-5 3-5 1-3	5,880/4 5,880/4 5,880/4 5,880/4 5,880/4 5,880/4

ve Cut	N/Years		4,471/3	4,471/3	6/167 7	4,471/3		5,846/4	5,967/4	6,069/4	3,326/4			4,367/3 5,994/4 5,890/4
Negati	Punches		3-5 I	1,2		1-3			2-4	2	7			7 7 7
	Prop.		.284	.763	119	.394		.358	.626	.477	.683			.635 .679 .783
tive Cut	Punches		1,2 2-5	* * 5 - 5	1 v 1 -	4°5		2	l	1,3	-			2 1 1
Posi	Content		Pro Anti	Anti Anti		Anti Anti		Disagree	*Hard Work	Agree	Yes,work			Anti Pro *Pro
GSS	MNEMONIC		CONSIDER HONFS'F	MANNERS		STUD I OUS		ANOMIA7	GETAHEAD	TRUST	RICHWORK			FEHOME FEWORK FEPRES
	Group/Item Content (Paraphrase)	<ol> <li>Most desirable qualities for a child to have</li> </ol>	Considerate of others	Has good manners	Acts like a boy	(she acts like a girt) Is a good student	4. The social system	Public officials not interested in average man	Get ahead by hard work v. lucky hreaks or help from others	Most people can be trusted	Continue to work if you were to get enough money to live comfortably rest of life	5. Family, sex, children, etc.	a. Women's roles:	Women should leave running the country up to men Married women working Woman candidate for president .

TABLE 7--Continued

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TABLE 7--Continued

			GSS	Po	sitive Cut		Negati	ve Cut
G	roup	S/Item Content (Paraphrase)	MNEMONIC	Content	Punches	Prop.	Punches	N/Years
5.	Con	itinued						
	b.	Sex:						
		Sex relations before marriage . Adultery Homosexuality	PREMARSX XMARSEX HOMOSEX	Pro Pro Pro	3,4 2-4 2-4	.555 .287 .277	1,2 1 1	5,874/4 5,936/4 5,657/4
	c.	Abortion:						
		If married and doesn't want more children If not married and doesn't want to marry	ABNOMORE ABSINGLE	Pro Pro	1 1	•454 •485	2 2	8,727/6 8,683/6
	d.	Miscellaneous:						
		Divorce easier to obtain Ideal number of children =	DIVLAW	Pro	1	.314	2,3	4,273/3
		less than three	CHLDIDEL	Pro	0-2	.526	3-7	5,547/4
		home with grown children	AGED	Anti	2,3	.670	1	4,460/3
6.	Dev	iants						
	a.	Free speech:						
		For an atheist For a communist For a militarist For a racist Anti-pornography laws	SPKATH SPKCOM SPKMIL SPKRAC PORNLAW	Pro Pro Pro Pro Anti	1 1 1 2,3	.645 .573 .534 .608 .585	2 2 2 2 1	7,532/5 7,421/5 2,970/2 2,965/2 4,405/3

...

	GSS	Po	sitive Cut		Negati	ve Cut
Group/Item Content (Paraphrase)	MNEMONIC	Content	Punches	Prop.	Punches	N/Years
6. Continued						
b. Miscellaneous:						
Legalize marijuana	. GRASS	Pro	I	.229	7	4,332/3
Communism as a form of government	. COMMUN	Pro	2-4	.498	1	5,835/4
Capital punishment	. CAPPUN	Anti	l	.321	2	5,636/4
7. Race relations (whites only)						
Miscepenation laws	. RACMAR	Anti	2	.649		7,827/6
Open housing laws	. RACOPEN	Pro	2	.352	1	3,890/3
Black candidate for president	. RACPRES	Pro	-	.786	2	5,068/4
Invite Negro to dinner	RACDIN	Pro	3	.716	1,2	6,563/5

<sup>a</sup>Plus and minus are assigned to give a positive association with Education. Items with an asterisk are not significantly consistently associated with Education and signs were set arbitrarily.

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TABLE 7--Continued

refer to elective abortion; and three are tagged miscellaneous (whether divorce should be easier to obtain, ideal number of children, and whether older people should live with their grown children).

Eight items seem to have in common the question of tolerance or permissiveness versus punitiveness for deviants. Five bear on free speech (for atheists, communists, militarists, racists, and pornographers). The atheism and communism items are replications of the original Stouffer questions, militarists and racists were added in GSS to introduce a "rightist" deviant as the issue. The pornography question is a classical first amendment issue but the word "speech" does not occur. The remaining three deviance questions cover legalization of marijuana, attitudes toward communism as a form of government, and opinion on capital punishment for murderers.

The last four items in the collection are about race relations. They include miscegenation laws, open housing laws, voting for a black presidential candidate, and inviting a black for dinner. The items were asked of whites only (beginning in 1978, all races were asked the open housing and black candidate items). Since there is no doubt that blacks would give overwhelmingly liberal answers on these questions, our results will tend to underestimate the number of items with significant race differences.

Each of the forty-nine attitude questions was cross-tabulated against the predictor variables in three separate runs. Following Conclusion I (a) Sex was cross-tabulated against each item with no other controls, (b) each item was run against Age by Race by Education by Occupation, and (c) each item was run against Race by Region by Religion. The results appear in Table 8. It is large and complicated and I will explain the definitions and details as I go along.

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STATISTICALLY SIGNIFICANT NET d's<sup>a</sup>

		Sex		Age		Ed	lucation		Occu Pre	pationa estige		tegion	Religion	Race	č	ou Summ	ary
Topic/	+ + + + ···	Male	18-33	34-53		12	Coll.	-	33-45	46-82	,	South	Catholic	Black	2		na ak
Item (rostrive		Female	34-53	54+	Index	11-0	12	Index	12-32	33-45	Tudex	Other	Protestant	White	5		
Frioficies Natain (Ap	ro)		+.061		+.046	039	+.053					1.047			2	660.	.046
NATARMS (An	ri)	+.042	+.086		+.064		+.157	+.118				108	+.048	+.096	9	.476	.079
NATCITY (Pr	(0	~.038	+.087	+.046	+.100		+.051	+.038				080	+.096	+.235	9	.587	160.
NATCRINE (An	ti)	+.037					+.079	•.059						055		.151	.050
NATORIG (AD	ti)						+.052	660.+						053	2	.092	.046
NATEDUC (*P	ro)		+.055	+.122	+.133							+.042		+.265	<b>m</b>	144.	.147
NATENVIR (Pr	(0,		+.145	+.113	+.194		+.071	1.053				059	+.073	+.132	Ś	.511	.102
NATFARE (*P	(o)	037	+.069		+.052	081	+.062		045		660	+.042	<u> </u>	+.325	\$	.489	860.
NATHEAL (*P	(ro)			+.060	+.045							037	+.062	+.180	4	.324	.081
NATRACE (Pr	(0	·	+ .044	+.036	+.060		+.063	+.047				048	+.037	+.616	s	.808	. 162
NATSPAC (Pr	( o	+.153		+.055	140.+	••060	+.126	+.162	+.066		+.050			188	2	.594	611.
Prefer in job																	
IANOUR (*F	'ro)	<u></u>				054	101.+					+.050			-	.050	.050
IOBINC (An	iti)		<u></u>	+.078	+.058	160.+		+.068				089		163	4	.378	.094
JOBMEANS (Pr	( <sup>0</sup> .	069	=			+.098	+.112	+.158	+.084	+.070	+.116	080	075	210	9	.708	.118
JOBPROMO (Pr	( o.			064	048	+.053		050.+				045		056	4	.189	.047
JOBSEC (A	ıti)	042		+.062	+.046	+.076	+.100	+.132						116	4	. 336	.084
Deairable qualiti	e u																
CONSIDER (Pr	(0.			+.053	040.+	+.101	+.066	+.125				083		121	4	.370	.092
HONEST (Ac	ıti)						+.066	+.050					+.066	+.102	C	.218	.073
MANNERS (A.	ıti)	073		+.056	+.042	+.116	+.066	+.136				1/0	033	152	9	.507	.084
OBEYS (Au	ıti)			+.079	+.059	+.089	+.090	+.134		+.051	+.038	101		+.050	Ś	.382	.076
ROLE (*/	hati)	098	+.087		+.065										2	.163	.082
STUDIOUS (A	ıt i )		+.071	+.076	+.147	+.062		+.046						116	-	. 309	.103
The social system	-														•		010
ANOMIA7 (Dis	igree)					•.069	+.060	160.+		+.069	+.052	- 040		971	<b>4</b> (	/16.	6/0.
GETANEAD (*Nard	l Work)	060												085	, <b>,</b>	.145	7/0.
TRUST (Agi	(ee)	+.051			088	+.119	+.110	+.172	+.072		+.054	102		215	° e	283.	÷11.
RICHWORK (Yes,	, Work)	+.107	+.053	+.134	+.140		+.083	+.062							-	۲uc .	rn1.

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			Sex		Age		ŭ	lucation		Occu Pre	pational setige	_	Region	Religion	kace	Ř	N Suma	ıry
Topic/ Tree (Posit	rive Cut)	+ +	Male	18-33	34-53	-	12	Coll.		33-45	46-82		South	Catholic	Black	. Z	inn Y	fean
		+	Female	34-53	54+	Index	0-11	12	Tudex	12-32	33-45	<b>X</b> an	Other	Protestant	White			
Women's roles																		
FEROME	(Aati)			+.085	+.114	+.149	+.128	+.131	+.194	+.085	-	+.064	110			4	. 217	.129
FEHORK	(Pro)			+.052	+.129	+.136	<b>EE1.</b> +	+.107	+.165		+.054	070.1			+.064	4	.405	101
FEPRES	(*Pro)			+.071	+.068	+.122							-,051	+.048	+.068	4	. 289	.072
Sex																		
PREMARSX	(Pro)		+.104	+.162	+.142	+.228		+.070	+.052			<u></u>	142	+.050	+.212	9	. 788	161.
XMARSEX	(Pro)		+.063	+.083	+.096	+1.34		+.124	+.093				070		+.141	ŝ	. 501	.100
NOMOSEX	(Pro)			+.126	+.080	+.154	+.072	+.149	+.166	+.048	-	+.036	104	+.061		ŝ	. 521	.104
Abortion						<u></u>										•		900
ABNONORE	(Pro)		+.047				+.095	+.136	113				104	109		4	. 4 3 3	801.
ABSTNGLE	(614)						160.4	+.129	+.165			-	113	122	092	4	.492	.123
Family, misce	llancous																	
D I VI.AW	(Pro)		+.072	+.161	+.061	+.166		+.087	+.065			<u>.</u>			+.233	4	. 536	·134
CHLD LDEL	(b10)			160.+	+.067	+.118	+.072		+.054				044	105	145	Ś	.465	660.
AGED	(Anti)			+.059	+.114	061.4	+.U52		+.039					083	127	4	979	<b>2</b> 60.
Free sprech														i i			202	
SPKATH	(Pro)		+.053	060.+	•.166	+.192	+.181	+.121	+.226				- 149	C00.+		<b>^</b> 1	(80.	
SPKCOM	(Pro)		+.058	+.069	161.+	+.154	+.172	+.152	+.243		•.046	+.034	149	+.045	•119	-	.805	.115
SPKM11,	(Pru)			+.112	+.124	+.177	+.118	+.149	+.200				109			-	.486	.162
SPKRAC	(Pro)		+.066		+.151	611.+	+.099	+.121	+.165				101		057	Ś	. 502	.100
PORNLAW	(Auti)		4.135	+.204	+.163	+.275		••060	•.068					1.051	+.253	ŝ	.782	.156
Deviance, mis	cellaneous														1	,		
GRASS	(Pro)		+.084	+.197	<b>6 4 0 4 3</b>	+.180		+.115	+.086				086	+.058	+.072	و	996.	.094
CONMUN	(Pro)		+.100	+.104	+.062	+.124	+.053	+.177	+.172				160		+.214	ŝ	. 529	.106
CAPPUN	(Anti)		112	+.082		+.062		+.067	+.050						+.290	4	. 564	.128
kace													001	761 .	1	~	****	170+
RACMAR	(Anti)		+.031	+.098	+.128	+.170	+.174	+.128	+.226	640.4		17:01	- 107	071.+				
RACOPEN	(Pro)			+.156	+.064	+.165		+.070	+.052				231	+ .064	VN	<b>^</b>	+710.	• 97 1 •
RACPRES	(Pro)			+.038	+,098	+.102	+.057	+.058	+.086				163	+.050	VN	5	+105.	•001
RACDIN	(Pro)			+.035		+.026	+.076	+.052	+.096		+.029	+.022	129		AN N	~	.273+	.068+

<sup>8</sup>See text for detailed explanation of Table 8. \* = Plus and minus for these items assigned arbitrarily. NA = Not asked.

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Since Race requires rather extensive controls, I used Proposition I to simplify the volume of numbers by finding (A) the zero order correlations, (B) the net associations controlling for Age, Education, and Occupation, and (C) the net associations controlling for Region and Religion. I then estimated the effect of controls by subtracting (B) from (A) and (C) from (A), obtaining (D) and (E). Since these two effects are virtually independent (from Conclusion I) the net partial for Race, controlling for Age, Education, Occupation, Region, and Religion was estimated by subtracting (D) and (E) from the zero order results. All this is shown in Tables 9 and 10.

We are now ready to proceed with the results, first overall and then variable by variable.

#### Overall Results

#### Conclusion II

(a) Every item in the set is significantly associated with <u>some</u> background variables and the vast majority show significant net associations with <u>most</u> background variables, (b) the average difference is small (about .100) but the cumulative effect is usually substantial, and (c) the differences are a bit stronger for "social issues" and a bit weaker for "values."

To start with the simplest question, given seven background items and forty-nine attitudes, how many significant associations did we get? In Table 8, the columns for Sex, Region, Religion, and Race and the columns headed "Index" for Age, Education, and Occupational Prestige give the basic results. (Index will be explained in the next section. For now, merely assume that if a number appears there, it is the net difference for the item when dichotomized rather than trichotomized.)

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RACE AND ATTITUDES

(F)	A-(D+E)	+.027	+.096	055	053	+.265	+.132	+.325	+.180	+.616	188	+.009	163	210	056	116		121	+.102	152	+.050	+ 035	116
(E)	A - C	.000	014	042	017	030	040	003	036	029	013	010	013	020	006	015		018	017	015	047	030	+•001
(D)	A – B	+.016	018	001	010	016	007	+.021	- 006	002	067	001	029	056	018	036		024	015	055	061	028	- 005
	keligion N.S.	+.043		039				<u></u>				+.008	}									+.007	
	ing for: Region-F		+.078	+.234	063	+.249	+.125	+.346	+.174	+.614	253		192	266	074	152		145	+.087	207	111		123
	Controll	+.027		048								100 -	1000									+.005	
(I)	Age-Educ Sie.	G	+.082	+.193	070	+.235	+.092	+.322	+.144	+.587	201		176	230	062	131		139	+.085	167	097		117
A)	Order N.S.	+ 043		032								- 002	100.	-								023	
	Zero		+.064	+.192	080	+.219	+.085	+.343	+.138	+.585	268		- , 205	286	080	167		163	+.070	222	158		122
	Topic/Item	Priorities www.rp	NATARMS	NATCITY	NATDRUG	NATEDUC	NATENVIR	NATFARE	NATHFAI.	NATRACE	NATSPAC	Prefer in job		IOBMEANS	IORPROMO	JOBSEC	Desirable Qualities	CONSIDER	HONEST	MANNERS	OBEYS	ROLE	STUDIOUS

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	(		l)		<u>)</u>		(0)	(E)	(F)
				Controll	ing for:				
topic/item	0 0 197	Tanı	Age-Educ	0cc.	Region-R	eligion	A - B	A - C	A-(D+E)
	Sig.	N.S.	Sig.	N.S.	Sig.	N.S.			
The social system	071		1 2 3		135		200	- 2005	1 1 2 8
ANUMLA/	087		087		085		000.	002	085
TRUST	315		241		289		- 074	026	215
RICHWORK		019		+.034		014	053	005	+.039
Women's roles	000		005		050		C 00	950 -	1 033
FEHOME	••000	013	con•-	+.037		+.014	050	027	+.064
FEPRES		013		+.030		+.025	043	038	+.068
Sex	4								
PREMARSX	+.078		+.096	100	+.194		1.013	011	+.212
AMARSEX	+.079 069		046	140.1	1.120	019	023	050	+.004
	) )								
Abortion	- 085		053		065	065	032	020	033
ABSINGLE	156		110	. ,	138		046	018	092
Family, miscellaneous									
DIVLAW	+.273		+.277		+.229		- 004	+ 044	+.233
CHLDIDEL	176		161		160		CIU	010	-140 
AGED	-171 -		-100		+(1.		170	170.1	171.
Free speech covaru	- 123		- 058			043	065	080	+.022
SPKCOM		006	+.060		+.053	}	066	059	+.119
SPKMIL		066		037		016	029	050	+.013
SPKRAC	137		109		085		028	052	057
PORNLAW	+.171		+.177		+.197		006	026	+.203
Deviance, miscellaneous					370 .		200	760 -	010 T
GRASS	771 1	+.029	190	+.030	171 +		- 00.3	- 025	+ 214
COMPUN	+.140		+.307		+.284		006	+.017	+.290

TABLE 9--Continued

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mania/Itan	Race-Regio	n-Attitude	Religion-Re	egion-Attitude	Race-Relig	lon-Attitude
topic/item	dd	Prob.	dd	Prob.	dd	Prob.
Priorities *NATCITY *NATCRIME NATDRUG *NATEDUC NATENVIR NATHEAL	+.136 +.150 114 +.249 +.130 +.098	.012 .003 .026 .001 .016 .043				
Prefer in job JOBHOUR JOBINC Desirable qualities (None)	117	.047	137	.011		
The social system ANOMIA7 *TRUST					180 235	.046 .011
Women's roles (None)						
Sex (None)						
Abortion *ABNOMORE *ABSINGLE	+.110	.017			286 214	.011 .005
Family, miscellaneous *CHLDIDEL	+.112	.039			236	.008

# STATISTICALLY SIGNIFICANT THREE-VARIABLE INTERACTIONS FOR RACE BY REGION BY RELIGION BY ATTITUDE<sup>a</sup>

NOTE: For the forty-nine tabulations of Age by Education by Race by Prestige by Attitude, one (RACMAR) showed interaction significant at the .05 level.

<sup>a</sup>Items whose mnemonic has an asterisk showed significant lack of fit (< .05 after doubling estimated sampling variances to compensate for clustering) for the four-variable table. Entries are results for interactions when data are collapsed to three variables.

In a nutshell, given  $7 \star 49 = 343$  possible associations (assuming blacks had been asked the race questions and a significant race difference would have been detected) 214 or 62.4 percent are statistically significant.

Table 11 gives some variations on this head count.

Reading across the rows of Table 8, one can find how many background variables are correlated with a given attitude. For example, NATAID has entries for Age and Region (since the + category of NATAID is pro, the + categories for Age are Younger, and the + category for Region is South, younger people and Southerners are significantly more favorable to foreign aid) giving a grand total of 2 under the column headed N for the Row Summaries at the far right.

Table lla gives the distribution of these row sums. The frequencies range from 1 (JOBHOUR is only related to Region) to 7 (SPKCOM and RACMAR are each associated with all seven) background variables and appear to be symmetrically distributed around 4 to 5. None has a score of zero and the bulk (80 percent) are associated with four or more. Thus, while less than two-thirds of the possible associations are significant, in every case there is at least one association and in the vast majority four or more.

Significance is not the same as size, particularly in a data set where d's of .03 are usually significant--even after correcting for multi-stage sampling. Just as we can sum differences across the rows of Table 8, we can sum the absolute values of the d's and divide by N to find the average difference. (Note that nonsignificant effects are excluded from the tabulation so we are talking about effect sizes where there are significant effects.) Thus, for NATAID, the two effects average to .046. Table 11b gives the distribution of these means using

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<b>CAB</b>	LE	1	1
_	_	_	_

	(a)	Number of	Associations
Number	Item		Mnemonic
7	2		SPKCOM, RACMAR
6	7		NATARMS, NATCITY, JOBMEANS, MANNERS, TRUST, PREMARSX, GRASS
5	15		, , ,
<b>`</b> 4	14		
3	6		
2	4		NATAID, NATDRUG, ROLE, GETAHEAD
1	_1		JOBHOUR
Median = 4.9	49 <sup>a</sup>		

SUMMARIES OF ASSOCIATIONS ACROSS SEVEN INDEPENDENT VARIABLES

(b) Mean of Significant Differences (Stem and Leaf)

<u>Stem</u>	Leaf	Mnemonic
.16 .15 .14 .13 .12	2 2 6 7 1 4 7 3 8 8 9 9	NATRACE, SPKMIL PORNLAW NATEDUC PREMARSX, DIVLAW, SPKATH ABSINGLE, CAPPUN, RACOPEN, FEHOME, RACMAR
.11 .10 .09 .08 .07 .06 .05 .04 N = 49 Median =	4 5 8 9 0 0 0 1 2 3 3 4 6 8 2 3 4 4 5 7 8 1 2 4 4 2 2 3 6 9 9 8 0 0 6 6 7 .100	RACD IN NATCRIME, JOBHOUR NATAID, NATDRUG, JOBPROMO
·	(c) Sum of Effects	(Stem and Leaf)
.8 .7 .6 .5 .4 .3 .2	0 1 1 7 8 9 8 8 0 0 1 1 1 2 2 3 4 6 7 9 9 0 0 3 4 6 8 9 9 9 1 1 2 2 4 7 8 8 8 2 7 9	SPKCOM, NATRACE JOBMEANS, RACMAR, PORNLAW, PREMARSX SPKATH, TRUST
.1 .0 N = 49 Median =	4 5 6 9 5 9 9 •46	GETAHEAD, NATCRIME, ROLE, JOBPROMO JOBHOUR, NATAID, NATDRUG

Assumes race difference for items not asked of blacks.

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a stem-and-leaf display (Erickson and Nosanchuk, 1977, pp. 18-29; Leinhardt and Wasserman, 1979, pp. 317-322). A stem-and-leaf display is an "Exploratory Data Analysis" device for inspecting distributions where the variable has numerical scores with two or more digits. Thus, in Table 11b, the sizes of the significant differences range from .046 to .162. To make the display, the values are broken into two parts. One part, usually consisting of the first N-l significant digits, forms the vertical scale. Thus, in Table 11b, the vertical scale ranges from .04 (the first two digits of the smallest difference, .046) to .16 (the first two digits of the largest difference, .162). The final digits for values with the same place on the vertical scale appear as row entries, arranged by size. Thus, in Table 11b, the bottom line says the three lowest scores in the batch are .046, .046, and .047. To the right of the display I have presented the GSS mnemonics for the highest and lowest ends of the distribution. Thus, we can see that the two highest differences were .162 for SPKMIL and .162 for NATRACE.

The display allows one to (a) easily <u>see</u> the shape and location of the distribution, (b) find medians, quartiles, etc. easily, and (c) identify specific observations that are especially high, low, or whatever.

The figures distribute symmetrically around a median of .100. Thus, for the average attitude item, there are associations with most of the background items and these associations will average about .100 in magnitude (all predictors dichotomized).

A difference of .100 does not feel large and the largest difference in the whole lot is just +.616 (for Race and NATRACE). I think it is

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fruitless to argue whether these magnitudes are "impressively large, considering," or "disappointingly small, despite." It would, I think, take a bit of sophistry to argue the former, but before opting for the later, one should consider several matters.

First, these are all <u>net</u> differences and given the structure of the system, the gross or zero order differences are often larger, save for Sex.

Second, I am not sure magnitude is the goal here. Starting from the assumption that macro-level categories reflect causal processes only indirectly, what is interesting is not the " $\mathbb{R}^2$ 's" (or whatever) but the pattern of the correlations--the signs and combinations. Thus, if we know a certain opinion is reliably more common among older people, Southerners, and Protestants, but shows no Education or Occupational differences, we have a better sociological <u>feel</u> for what is going on, whatever the effect sizes. With this in mind, I will devote considerable attention to these effect patterns when we get to the individual variables.

Third, small numerous differences cumulate. Since the data are almost interaction free (see Table 10), respondents who differ on several categories will differ on the dependent variable by the sum of the effects. Consider, for example, XMARSEX (tolerance of adultery). It has a typical row sum of 5 associations whose mean is .100. Dichotomizing all variables:

If we contrast . . .
men with women, the difference will be
 (+.063)
younger men with older women, the difference will be
 (.063 + .134 = +.197)
younger, well-educated men with older, less well-educated women,
the difference will be
 (.063 + .134 + .093 = +.290)

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Table 11c gives the distribution of these sums. They range from .05 (JOBHOUR) to .81 (NATRACE) with a median of .46. Thus, for half of the items we could construct percentage tables in which the extreme combinations differed by .46 or more, and for 80 percent of the items we will find contrasts of .30 or more.

Since real people fall in combinations of categories, small cumulative effects of the sort found here can produce situations where encounters between Americans from different structural niches can be hostile or at least puzzling. A lot of drama and fiction concerns such encounters and the art of national electoral politics often involves devices to build category coalitions whose opinion differences are not boldly apparent to the coalition members.

In sum, these data should not, I think, be read to favor the Massification side of the Massification v. Differentiation debate (Glenn, 1967).

Turning to the content clusters, Table 12 aggregates the summary measures for eleven arbitrary topics.

If there is a pattern in Table 12, the order seems to be from fairly concrete social issues (should this sort of person be allowed to do that sort of thing?) to general evaluations (is such and such an abstract property a good thing or not?). No doubt part of the difference comes from technical aspects (there is probably more random error in ratings than in forced choices) but to the extent that the differences

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Cluster	Average Mean Difference	Average N of Effects	Average Sum of Effects
Free speech	.134	5.0	.670
Sex	.112	5.3	.597
Race	.106	5.5	.583
Deviance	.109	5.0	.545
Abortion	.116	4.0	.464
Family, miscellaneous	.107	4.3	.460
Women's roles	.101	4.0	.404
Priorities	.093	4.2	.389
The social system	.092	3.8	.345
Desirable qualities.	.085	3.8	.326
Prefer in job	.079	3.8	.300

DATA IN TABLE 11 AVERAGED BY CONTENT CLUSTER

are substantive, they have an unfortunate implication for theorizing. It is a fundamental statistical principle that when variable T explains a correlation between X and Y it must have unusually strong relationships with both X and Y, If values, subcultural norms, anomie, etc. are to explain the correlations between structure and specific opinions, it is unfortunate that, at least in our data, they tend to have smaller correlations with X than the variables whose relationship with X they are supposed to explain.

## Educational Attainment

## Conclusion III

Education is a persistent, but not terribly consistent, predictor of attitudes. Better-educated people tend to be more permissive, more progressive, and generally less "uptight." College tends to produce stronger differences than high school.

Educational attainment is one of sociology's favorite variables. Unlike Occupational Prestige or Earnings, everybody has one and measurement is simple. Education always has policy relevance since the amount and character of educational attainment is one of the few macro-sociological variables which is subject to deliberate control.

Our data, by and large, support the conventional wisdom, but matters become a bit more complicated because we are treating the variable as a trichotomy (College v. High School and High School v. "Grade"). Consequently, we have  $49 \ge 2 = 98$  differences to consider, as summarized in Table 13.

Table 13 says:

For College 20 + 19 = 39 differences (80 percent) were statistically significant and of these, 19 (.487) were .100 or larger in magnitude.

For High School 11 + 15 + 3 = 29 (59 percent) were significant, 11 (22 percent) exceeded .100.

For 44/49 items (90 percent) one <u>or</u> the other educational differences was significant.

Thus, Education is a persistent correlate. There is some educational correlation with almost all attitudes in the set (the exceptions: NATEDUC, NATHEAL, ROLE, GETAHEAD, and FEPRES).

But are the differences <u>consistent</u>, do they tend to agree? They certainly do not disagree. Only three items (NATAID, NATFARE,

#### (a) Cross-Classification High School College Significant Not Signi-Total Signi-.100 Sign Size <.100 ficant ficant or More .100 or more 9 11 0 2 Same Yes <.100 5 4 6 15 Same 5 12 3 20 No Opposite <.100 0 2 1 3 Yes 10 20 19 49 Total ..... (b) Strong Effects of College .100 or More High School Effect Size Other Total 9 .100 or More 2 11 Significant, same sign <.100 9 6 15 23 All other 19 4 30 19 49 Total .....

## EFFECT OF COLLEGE (VERSUS HIGH SCHOOL) BY EFFECT OF HIGH SCHOOL (VERSUS GRADE SCHOOL)

and JOBHOUR) have significant but opposite signs, that is, a "curvilinear" relationship with Education. When one has a relatively large effect, the other tends to follow along. Thus, in Table 13b, when College has a .100 difference vis-à-vis High School, in 15/19 (79 percent) cases High School shows a significant, same sign difference vis-à-vis Grade.

Nevertheless, the same figures can be read differently. Of the 45 cases where there is some significant association, 21 show significant, same sign associations for both levels, 28 (62 percent) do not. In other words, when College or High School show a significant effect,

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the other comparison comes through no more than half the time. Table 14 gives more detail on these differences.

The entries in Table 14 are differences in effects. For example, if .200 of the Grade, .250 of the High School, and .350 of the College respondents agree to some item, the College effect is .350 - .250 = +.100, the High School effect is .250 - .200 = +.050, and the difference is .100 - .050 = +.050.

What might be going on? First, the two effects might be generally equal with only random differences. Since all the effects are pretty small, it would not be astounding to have one significant but not the other through chance alone. If so, we would expect the values in Table 14 to be most common around zero and then drop off. It doesn't look like that. The values concentrate around .02, .03, and .04, not zero. Such values are not trivial. Since most of the differences have standard errors of about .02, they have variances of around .0004, and the variance of the difference in the difference will be around .0008, giving the standard deviation of .028. Thus, the median difference in Table 14a, .037, is 1.32 in sigma units. Putting it another way, these rule of thumb estimates say a difference of .057 would be statistically significant at the .05 level. Applying that criterion, 13 (26 percent) of the differences in Table 14 seem to be statistically significant.

If the differences are not random, the next simplest hypothesis is that one of the effects is consistently larger. There is some evidence in Table 14 that the College effect runs a bit stronger. Of the 49 differences in Table 14a, 34 (69 percent) show the College effect to be larger, and if we limit ourselves to the bigger ones, those exceeding .050, 11 of 13 show a stronger College than High School effect. Similarly, we saw previously (Table 13) that College has more differences of .100 or more.

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TA	BLF	: 1	4

COMPARING COLLEGE EFFECTS AND HIGH SCHOOL EFFECTS

			(a)	Stem	and	Leaf			
Stem				Leaf					
.22	4								
.15	5								
.14									
.13									
.12	0	0	4						
.11									
.10									
.09	2								
.08	6	7	9						
.07	9								
.06	0	0	9						
.05	0								
.04	1	1	2	5	6	6	6	7	
.03	0	1	1	4	5	7	7	8	
.02	0	1	2	3	4	4	6	9 [	9
.01	4	6							
.00	0	1	1	3	5	6	9	9	
. –	(Ъ	) Ite	ms with	Diffe	renc	es of .(	06 or 1	More	
Difference	Iter	Po	sitive Cut	Ef: High Schoo	fect n pl	of: College	Gre Efi	eater Tect	Туре
.224 .155 .124 .120 .120 .092 089 .087 .086 .079 .069 .069	NATFA JOBHC COMMU NATAF XMARS NATAI JOBIN PORNI GRASS HOMOS RICHU DIVLA	URE DUR UN SEX UD NC LAW SEX VORK	Pro Short Pro Anti Pro Anti Pro Pro Pro Pro	$ \begin{array}{c}08\\054\\ +.053\\ (+.03)\\ (004\\039\\ (002\\ +.070\\ (+.01)\\ (02 \end{array} $	L 44 37) 4) 99 11 33) 9) 00 3) 7)	+.143 +.101 +.177 +.157 +.124 +.053 (+.002) +.090 +.115 +.149 +.082 +.087	Co Co Co Co High Co Co Co Co	Liege Liege Liege Liege Liege School Liege Liege Liege Liege	U shape U shape Curve Step U shape Step Step Step Curve Step Step
060	SPKA	ГH	Pro	+.18	1	+.121	Hig	n School	Curve

NOTE: \_\_\_\_ = High school effect is stronger.

( ) = Not significant.

•

Table 14b gives details on the 13 items showing differences of .06 or more.

Three items have significant effects with <u>opposite</u> signs--College respondents being <u>more</u> positive than High School and High School <u>less</u> positive than Grade. In other words, for these three items, the high and low education groups are more like each other than like the middles. The three seem to illustrate the pop sociological notion of a rigid middle class contrasted with more relaxed attitudes at the top and bottom (although the remaining 46 items in the set do not illustrate that notion). High school graduates are less likely to give Welfare and Foreign Aid high priority or to endorse "short hours, lots of free time" as a desirable job characteristic.

Seven of the items have a "step function" pattern where one difference is significant and the other is not. Thus, low priority for Military, Tolerance of Extramarital Sex, libertarian answers on distribution of pornography, favoring legalization of marijuana, opting for work even if one were rich, and easier divorce seem to be distinctively "collegiate" positions since High School and Grade respondents show small and insignificant differences. Conversely, concern with earnings as a job value is a characteristically Grade school position---High School and College respondents are less likely to choose it but there is little difference between them. Ex post facto, the patterns make intuitive sense, but one could find other items in the set that ought to behave in this way but don't, so it is unwise to draw bold generalizations.

Three of the items may be thought of as something like an exponential curve, where both items show a significant, same sign difference but one is clearly larger. Thus, although both education differences

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operate in the same direction, College seems to have a larger effect on diminished anti-communism and tolerance of homosexuality; High School produces the bigger difference on free speech for atheists.

Since most of our other background items are dichotomies (Sex, Race, Region, and Religion) it would be nice to have an estimate, however rough, of the differences one would find if Education were to be dichotomized. The effects would necessarily be larger than the average of the two differences reported except for the three cases with contradictory signs. (For example, if we were to dichotomize NATARMS as College v. Other, the Grade school group would pull the Others down compared with College v. High School, making the difference bigger than the one we got for College v. High School. Similarly, if we cut it Grade school v. Other, the additional College cases would pump up the effect.) Now, if Education were cut exactly into thirds and if we dichotomized it half the time as College v. Other and half the time as Grade v. Other, elementary algebra shows us the average difference would be .75 times the sum of the two effects. We will use this crude "Index" (.75 \*  $d_1 + d_2$ ) from here on to summarize results for trichotomizes.

Table 15 gives Index values for Education against the fortyone items where one or both net effects are significant and the signs agree.

The range is from .24 (free speech for communists) to .038 (NATCITY) with a median of .096. Thus, for the 41 items associated with Education, it typically produces about a 10 percent net difference in attitudes and opinions when dichotomized.

The items most strongly associated with Education are the ones anticipated on the basis of previous research.

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Stem	Leaf	Item
.24	3	SPKCOM
.23		
.22	66	SPKATH, RACMAR
.21		
.20	0	SPKMIL
.19	4	FEHOME
.18		
.17	2 2 3	TRUST, ABNOMORE, COMMUN
.16	2 5 5 5 6	NATSPAC, ABSINGLE, FEWORK, SPKRAC, HOMOSEX
.15	8	JOBMEANS
.14		
.13	246	JOBSEC, OBEYS, MANNERS
.12	5	CONSIDER
.11	8	NATARMS
.10		
.09	367	
.08	6 6	
.07		
.06	2588	
.05	0 0 2 2 3 4 9	
•04	067	
.03	899	
.02		
.01		
.00		
	NOTE: $N = 41$	

# NET EFFECTS OF EDUCATION (DICHOTOMY INDEX)

 Contradictory signs (NATFARE, NATAID, JOBHOUR)
 Neither difference significant (NATEDUC, NATHEAL, ROLE, GETAHEAD, FEPRES)

Median = .096

Better-educated people are noticeably more permissive. They are more willing to "allow" free speech (for communists, atheists, militarists, and racists), racial intermarriage, abortion, and homosexuality. I don't think this tolerance can be written off as "softness" on the behavior to be tolerated. Educated people are significantly more liberal on all the race items and also noticeably more tolerant of racist speakers; educated people are distinctly less militaristic (NATARMS), but more tolerant of a militarist speaker.

I also see an element of progressivism here. Educated people tend to give more support to the new: abortion, space exploration, and women's equality. To me, many of the items also convey a flavor of optimism, lesser rigidity, and lower hostility. Educated people are higher on trust, less anti-communist, less concerned about job security, and more concerned about accomplishment, less concerned about a child's obedience and manners, and more concerned about consideration for others, a collection that can be characterized by the cliche, "less uptight."

In one area, however, the data do not support a traditional finding: that the better educated are "anti-spending." On the National Priority items, they are relatively more favorable on spending on cities, the environment, race, and space, although they are significantly less favorable to spending on military, crime, and drug control.

## Occupational Prestige

#### Conclusion IV

Occupational Prestige is a poor net correlate of attitudes and opinions, although it does show appropriate correlations with other subjective variables.

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Table 16 summarizes the details in Table 8. It clearly shows Occupational Prestige to be a weak sister. Only 24.5 percent of its associations are significant (versus 63.0 percent for all variables); the median magnitude of its significant associations is .039 (versus .100) and .020 of its associations have (Index) values of .100 or more (versus .283).

All that emerges from the forty-nine runs is that higher presitge workers . . .

```
prefer jobs that give a feeling of accomplishment
    (JOBMEANS, Index = +.116)
favor women's "rights"
    (FEHOME = +.064)
are more trusting
    (TRUST = +.054)
are more positive about public officials
    (ANOMIA7 = +.052)
give higher priority to space
    (NATSPAC = +.050)
favor women's work
    (FEWORK = +.040)
are less concerned about a child's obedience
    (OBEYS = +.038)
are more tolerant of homosexuals
    (HOMOSEX = +.036)
are more tolerant of free speech for communists
    (SPKCOM = +.034)
give lesser priority to welfare
    (NATFARE = -.033)
are more tolerant of racial intermarriage
    (RACMAR = +.032)
are more tolerant of inter-racial dining
```

```
(RACDIN = +.022)
```

The items that are associated with better jobs seem (ex post facto) to be the sort of items that should be associated with better jobs and we note that eleven of the twelve signs are positive. For the forty-one items showing net effects with Education, I assigned the

Absolute			V	ariable				
Effect or Index	Race	Age	Edu- cation	Region	Sex	Reli- gion	Occu- pation	Total
Not asked	4	•						4
.20 or more	11	2	4	0	0	0	0	17
.1519	4	9	10	1	1	0	0	25
.1014	10	13	5	13	5	4	1	51
.0509	11	8	16	11	11	13	4	74
<.05	4	8	6	8	7	5	7	45
Other <sup>a</sup>	5	9	8	16	25	27	37	127
Total	49	49	49	49	49	49	49	343
Proportion not "Other"	•889 <sup>b</sup>	.816	.837	.673	.489	.449	.245	.630
Median if significant	.132	.120	.096	.086	.064	.063	.039	.100
Proportion .100 or larger	.556 <sup>b</sup>	.490	.388	.286	.122	.082	.020	.283

NET EFFECTS OF SEVEN VARIABLES (SUMMARY)

<sup>a</sup>Not significant or trichotomy with contradictory signs.

 ${}^{b}N = 45$ 

plus or minus signs to the categories to <u>make</u> their correlation with Education positive; for the three items with contradictory signs (NATFARE, NATAID, and JOBHOUR), I assigned plus and minus signs to match the College effect; and for the remaining five items unrelated to Education (NATEDUC, NATHEAL, ROLE, GETAHEAD, and FEPRES), signing was arbitrary. Consequently, the ll to l ratio of positive signs means Prestige usually operates in the same direction as Education, when it operates; thus, the familiar themes of permissiveness, progressiveness, and non-uptightness.

The coinage here is <u>net</u> association. For raw or zero order associations, Occupation has one or both comparisons significant for 34 items (69 percent); but since it is strongly associated with other predictor variables (Figure 1) most of these associations (34 - 12 = 22) are explained by Education, Race, or Age.

The poor performance of Occupation and the strong performance of Education when the variables are teamed is perhaps regrettable since one's sociological imagination has so many nice explanations of why Occupation should be more important: Occupation is more current, since most respondents ended their schooling years ago; the hierarchical structure, norms, socialization process, and interpersonal relations of an occupation create powerful subcultures; the curriculum of most schools is dry, abstract, and "square," while occupational experience is life itself; occupational levels define economic interest groups whose conflicts are alleged to drive politics and social change. Regrettable indeed.

The simplest explanation of the discrepancy would be that the prestige measure is mostly noise. Although the Hodge-Siegel-Rossi scores are unusually well constructed for sociological measures, they are, after all, numbers attached to the Census three-digit score for occupations on the basis of indirect statistical patterns estimated some time ago, not measures of where this particular person stands on his local ladder. A priori, this hypothesis is tempting, but I am not persuaded by it since other GSS data show HSR occupational prestige operating as occupational prestige should:

a) If you cross-tabulate the three prestige categories against job satisfaction, controlling for the three educational levels, you get the results in Table 17. Although job satisfaction is a notoriously shy correlator, net of Education, the prestige scores have a positive correlation. Both comparisons are .100 and significant, and the "Index" value of +.155 is impressive by comparison with the other results in

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Variable	Comparison	Diff.	2 Sigmas	Index
Prestige:	46-82 v. 33-45	+.102	.042	+.155
Education:	33-45 v. $12-3213+$ v. $12$	+.105	.042	
	12 v. 0-11	030	.042	043

OCCUPATIONAL PRESTIGE, EDUCATION, AND JOB SATISFACTION (1972-78 CUMULATIVE GSS)<sup>a</sup>

<sup>a</sup>SATJOB = "On the whole, how satisfied are you with the work you do?" (Very satisfied v. Moderately satisfied, A little dissatisfied, and Very dissatisfied).

this paper. Furthermore, net of Prestige, Education has <u>no</u> association with job satisfaction. If anything, the association is a bit negative (i.e., at any given prestige level, the greater the education invested to get that job, the less satisfied one is).

b) Occupational Prestige is a good net predictor of subjective social class. Other GSS data, not part of this report, pitted Education, Occupation, and Own Earnings against each other as predictors of the proportion claiming to be in the middle or upper classes. Table 18 gives the details.

Occupation and Education both have solid effects (Indices equal +.190 for Prestige and +.213 for Education) and both are stronger than the effect of Earnings.

c) The Appendix on party identification shows that high Occupational Prestige v. Middle (but not Middle v. Lower) has a significant effect on the proportion Republican (+.058) and the proportion Democratic (-.071), controlling for Age, Education, Race, Region, and Religion.

Variable	Comparison	Diff.	2 Sigmas	Index
Education:				
	13+ v. 12	+.198	.058	+ 213
	12 v. 0-11	+.086	.058	•••
Occupational Prestige:				
	46-82 v. 33-45	+.183	.060	
	33-45 v. 12-32	+.070	.056	+.190
Own earnings:				
	\$10,000+ v. 5,000-9,999	+.105	.056	+ 116
	\$5,000-9,999 v. less	+.050	.056	

## CORRELATES OF SUBJECTIVE SOCIAL CLASS (1974-77 GSS)<sup>a</sup>

NOTE: N = 3,467

<sup>a</sup>CLASS = "If you were asked to use one of four names for your social class, which would you say you belong in ... ?" (Middle class or Upper class v. Working class, Lower class).

In sum, Occupational Prestige does show reasonable associations (by the standards of Table 8) with three subjective measures: Job Satisfaction, Subjective Social Class, and Party Identification. Consequently, its poor performance as a predictor of attitudes is not probably explained away by high amounts of random error.

It is, of course, possible that other measures of Occupation would do better, though Table 2 does not lead to immediate optimism on that score. The association between the Census major groups and prestige is so strong that any substantial net d's between Census groupings and attitudes would produce attitude associations with Prestige in our data. It would seem that a more successful occupational prestige score would have to be virtually independent of HSR scores or Census group.

## Conclusion V

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Age is a persistent and consistent correlate of attitudes. There is no evidence that the gap between "young" and Middle-aged" is larger than that for "middle" and "older." The attitudes characteristic of younger people are almost always those associated with greater Education.

The tabulations divided Age into three groups: 18-33 (Young), 34-53 (Middle), and 54+ (Older), these being chosen merely to divide pooled data into fairly equal thirds (see Table 1) and ran them against the forty-nine attitudes, controlling for Age, Race, and Education, as explained above.

The box scores in Table 16 show Age to be among the better predictors. Forty of the 49 items (82 percent) showed significant net associations, the median "Index" for the significant associations is .120, and for almost half of the 49 items (49 percent), the index value is .100 or higher. Thus, Age is related to the vast majority of the attitude items and about half the time there is a difference of .100 or more.

Unlike education, the Age effects tend to be consistent--when the 18-33 year olds differ from the 34-53s, the 34-53s tend to show a similar difference when contrasted with the 54 and older group. Table 19 gives details.

Positive scores mean the difference between Young and Middle is larger than the difference between Middle and Older. In contrast to Table 14, the smallest values (between +.009 and -.009) are not sparse and the number of positive and negative scores is equal. That is, there

Age

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18	а.		<u>.</u>	Ŧ.	7

Stem		Le	af			Item
.15	4					GRASS
.14						
.13						
.12						
.11						
.10	0	2				DIVLAW, TRUST
.09	2					RACOPEN
.08						
.07						
.06	5	7	9			CAPPUN, ROLE, NATARMS
.05	4					
.04	1	1	2	6		
.03	2	5				
.02	0	2	4			
.01	3	6				· ·
.00	1	1	3	8	8	
01	1	5	8			
02	0	2	3			
03	9					
04	0	3	5	6	8	
05	2	7				
06	0	4	5	5		
07	0	7	8			RACPRES, NATEDUC, SPKCOM
08	6	7				SPKATH, FEWORK
09	1					RICHWORK
10						
11	0					SPKRAC

COMPARING 18-33 VERSUS 34-53 AND 34-53 VERSUS OLDER (STEM AND LEAF FOR ABSOLUTE DIFFERENCE IN NET d)

NOTE: Median = -.008, + = 24, - = 25.

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is no evidence that one age contrast is stronger than the other or that "step functions" are particularly common. Coming to the same conclusion by another route, there is no item where the age differences go in different directions ("curvilinear") and when one of the age contrasts is significant, the other is also significant about three quarters of the time (versus about half the time for Education).

While there is no way to disentangle Age-Cohort-Period effects in these cross-sectional data, the consistency results cast doubt on the popular notion of a "youth revolution" in the last ten or fifteen years. In the years 1972-1977, Americans age 34-53 differed from the trendy youth dancing behind them no more than they differed from the stodgy elders trudging along ahead.

Inspection of the specific items reinforces this interpretation. Of course, the .154 difference for GRASS and the .102 difference for TRUST support conventional wisdom. Here the difference between Young and Middle is much greater than that between Middle and Old; but at the opposite end, Middles differ from the Older more strongly on free speech (SPKCOM, SPKATH, and SPKRAC), women's employment (FEWORK), race relations (RACPRES), and commitment to work (RICHWORK). (The younger the person, the greater the commitment on RICHWORK.)

The same point can be made by looking at the content clusters. For example, the "youth revolution" hypothesis might imply a greater Young v. Middle difference for sex behavior. We do get a difference of +.046 for HOMOSEX, but for PREMARSX, the difference is only +.020, and for XMARSEX, -.013. Similarly, for the attitude to society cluster, we get a +.102 difference on TRUST, but we also get +.013 for ANOMIA7, -.010 for GETAHEAD, and -.081 for RICHWORK.

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Table 20 summarizes the Age effects again using the rough "Index" to approximate the results when one dichotomizes Age.

## TABLE 20

NET EFFECTS OF AGE (DICHOTOMY INDEX)

Stem	Leaf	Item
.27	5	PORNLAW
. 22	8	PREMARSX
.19	2 4	SPKATH, NATENVIR
.18	0	GRASS
.17	0 7	RACMAR, SPKMIL
.16	5 6	RACOPEN, DIVLAW
.15	4 4	SPKCOM, SPKHOMO
.14	0 7 9	RICHWORK, STUDIOUS, FEHOME
.13	0 3 4 6	AGED, NATEDUC, XMARSEX, FEWORK
.12	2 4	FEPRES, COMMUN
.11	3 8	SPKRAC, CHLDIDEL
.10	0 2	NATCITY, RACPRES
.09		
.08	8	
.07		
.06	0 2 4 5	
.05	2 8 9	
.04	0 1 2 5 6 6 8	
.03		
.02	6	

NOTE: N = 40, Not significant = 9 = Sign is negative = Not related to Education or curvilinear effect of Education. Younger Americans in the early 1970s were conspicuously more permissive and progressive. They are more willing to allow pornography, premarital sex, free speech for atheists, marijuana smoking, racial intermarriage, free speech for militarists, and so on, and they opt for the newer social trends--environmentalism, easy divorce, open housing, women's rights, etc.

The themes and items here are suspiciously familiar since they seem to be the same attitudes associated with more schooling. Remembering that signs were allocated to make correlations with Education positive, it is striking that all but two associations (JOBPROMO and TRUST) in Table 20 are positive in sign.

Table 21 allows us to examine the parallelism between Age and education in more detail.

Toward the top of Table 21 we see items where the Age effect is stronger: less value placed on being a good student, tolerance of pornography,tolerance of premarital sex, priority for environmentalism and education, favorability to open housing, voting for a woman for president, etc. At the bottom are the items where Education makes the bigger difference: abortion, meaningful work, priority for space, importance of manners, suspicion of officials, etc. Few common denominators come to mind--the themes that separate the Young from the Older also seem to separate the better educated from the less well educated. Since (1) Education, but not Age, is associated with greater trust of officials, and (2) Education is positively related to trust in general, while the age has a negative relationship, one might hypothesize that general morale (complacency) is more a function of Education than Age, but two items do not a sturdy generalization make.

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COMPARING NET EFFECTS OF AGE AND EDUCATION (INDEX FOR AGE MINUS INDEX FOR EDUCATION)

St	em	Both Same	Only One	Opposite
+.19 t	o.20	.93 STUDIOUS .07 PORNLAW		
.17	.18	.76 PREMARSX		
.15	.16			
.13	.14	.41 NATENVIR	.33 NATEDUC	
.11	.12	.13 RACOPEN	.22 FEPRES	
.09	.10	.01 DIVLAW .91 AGED .94 MANNERS		
.07	.08	.78		
.05	.06	.62 .64	.65	
.03	.04	.41	.45 .46	
+.01	.02	.12 .13 .16		
.00				+.08 JOBPROMO
01	.02	.10 .12 .23 .29		
.03	.04	.34 .45 .48	. 39	
.05	.06	.52 .54 .56	.50 .59	
.07	.08	.70 .75 .85 .86 .89		.84 TRUST
.09	.10	.94 MANNERS	.97 ANOMIA7	
.11	.12	.21 NATSPAC		
.13	.14			
.15	.16		.58 JOBMEANS .65 ABSINGLE	
17	.18		.73 ABNOMORE	

NOTE: Both Same = Both Age and Education are related and have the same sign. Only One = One variable has significant association, the other doesn't. Opposite = Age and Education have significant opposite sign associations.

NATFARE excluded because of curvilinear relation with Education, JOBHOUR and GETAHEAD excluded because they are unrelated to either Age or Education.

Example: the .93 STUDIOUS means STUDIOUS is related to both Age and Education with the same sign, and the Index for Age exceeds the Index for Education by .193.

The similarity between the Youth and Educational effects is so well known it is hard to view with a fresh eye, but I think it is theoretically puzzling. Why should more years of school and fewer years of life have similar effects on our attitudes and opinions? Or should one say the more years of school and the fewer years since school? This formulation assumes a decline in liberalism with age, while recent cohort studies of opinions suggest, if anything, the opposite (e.g., Davis, 1975b). Turning to a cohort formulation, can we say additional years of school expose us to the avant garde ideas that will become the consensus in later generations?

Below are the ten items where the Age-Education parallelism seems strongest, those where all <u>four</u> comparisons are significant and in the same direction. The items are arranged by the sum of the two indices:

.418	SPKATH	More tolerant of free speech for atheists
.397	SPKCOM	More tolerant of free speech for communists
.396	RACMAR	More tolerant of racial intermarriage
.377	SPKMIL	More tolerant of free speech for militarists
.343	FEHOME	Disagree women should stay home and leave running the country to men
.320	HOMOSEX	More tolerant of homosexuals
.301	FEWORK	Approve of women working
.296	COMMUN	Less anti-communist
.188	RACPRES	Would vote for a black for president
.138	NATCITY	Greater priority for urban problems

They clearly have a common flavor, but it is hard to put one's finger on it. "Liberalism" is obviously involved, but it is hard to give a satisfactory, abstract definition of liberalism. The best I can do is this: Younger Americans and better-educated Americans seem to share less anxiety about people and policies that depart from the social norms of small-town, white American around 1900.

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## Conclusion VI

Race is the most powerful background predictor of attitudes and opinions. The content cuts across the pattern for Education, suggesting a cultural rather than stratum interpretation.

Table 16 shows Race to be the strongest and most consistent net predictor in the set of seven background items. Ignoring the four "whites only" items (which doubtless would produce whopping correlations if blacks were asked), significant race differences appear for 41 of 45 questions (.889); the median difference for the significant items is .132; and in 56 percent of the 45 cases, the race difference is .100 or more. In each of the three summary measures, the entry for race is highest in the row. Table 22 gives item-by-item details.

Compared to whites and controlling for Age, Education, Occupation, Region, and Religion, blacks:

give greater priority to helping blacks (a whopping .61 difference), welfare, education, cities, health, and the environment; lesser priority to space.

are strongly opposed to capital punishment.

are more tolerant of pornography, divorce, premarital sex, communism, extramarital sex, and communist speakers.

in choosing a job, give less priority to feeling of accomplishment, and more priority to income and security.

are less trusting of people in general and more dubious about public officials in particular.

give greater value to manners and being a good student, less to being considerate and honest, when assessing desirable qualities for a child.

prefer larger families and are more favorable to older people living with their grown children.

After the fact, almost all of these items can be tied to known aspects of blacks' locations in the social structure, but it is difficult to line the findings up with the "permissive-progressive" slogan invoked

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# NET ASSOCIATIONS WITH RACE FROM TABLE 9 (Net d = .05 or Larger)

<u></u>				Si	gn		·····	
Stem	Lea	LL	Positive				Negative	
.61	6		NATRACE					
.32	*5		*NATFARE					
.31								
.30								
.29	0		CAPPUN					
.28								
.27								
.26	*5		*NATEDUC					
.25	3		PORNLAW					
.24								
.23	3	5	DIVLAW, NATCITY					
.22								
.21	2	4	PREMARSX, COMMUN	0	5		JOBMEANS, TRUST	
.20								
.19								
.18	*0		*NATHEAL	8			NATSPAC	
-17								
.16				3			JOBINC	
.15				2			MANNERS	
.14	1		XMARSEX	5			CHLDIDEL	
.13	2		NATENVIR					
.12				1	7	8	CONSIDER, AGED, AN	OMIA7
.11	9		SPKCOM	6	6		STUDIOUS, JOBSEC	
.10	2		HONEST					
.09	6			2				
.08				*5				
.07	2							
.06	4	8						
.05	0			3	5	6	7	

NOTE: \* = Sign for association with Education is arbitrary.

N = 36

9 <.05 in magnitude. <u>4</u> Asked of whites only. <u>49</u> for Education. Blacks seem highly "progressive" in their attitudes toward deviance, but their occupational and children's values seem rather "conservative."

As a result, the race differences tend to run 90 degrees off the Educational differences. Of the 36 items with a race difference, 32 have a meaningful net association with Education. Among the 36, 16 show positive associations for race, 16 are negative. Thus, items associated with Education are likely to be associated with Race but a coin will do just as well as Table 15 in predicting the sign.

The area of sex and family will illustrate. Like the better educated, blacks are more favorable to premarital and extramarital sex, easier divorce, and women working. But they are not especially tolerant of homosexuality (HOMOSEX = +.004) or militant on women's equality (FEHOME = +.033); and they move in the opposite direction on abortion (AESINGLE = -.092), older people living with their grown children (-.127), and ideal number of children (-.145). One gains the impression that being better educated promotes the social values of the "singles bar," while being black leads one to actually like living in families, provided they aren't puritan families.

A similar cross-cutting appears for the free speech items. Like the better educated, blacks are more tolerant of communist speakers and pornography; but there is no race difference on free speech for atheists or militarists, and blacks are less tolerant of racist speakers (SPKRAC = -.057).

It would, of course, be extraordinary if blacks uniformly lined up with the better educated if only because their lower SES gives them a rather different perspective on such matters as the relative importance

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of job security and meaningful work. What is, perhaps, surprising is that the signs are not <u>mostly</u> negative. If the signs had turned out to be mostly negative it would have been obvious that (a) the crude groupings used here did not fully remove the effects of Education and Occupation on race and/or (b) blacks, like the lesser educated, have the attitudes and opinions of the underdog.

The sign pattern that does occur suggests a different interpretation: race reflects a "horizontal" <u>subcultural</u> differentiation, rather than a "vertical" status process. The distinctive attitudes of black Americans suggest people who are "different," not people who are "lower on the ladder."

## Region

## Conclusion VII

Region is usually but not invariably correlated with attitudes. Living in the South and having less education almost always operate in the same direction.

Region appears in the middle of Table 16, which means it is not among the best or worst correlates. Two-thirds of the items show a significant association controlling for Race and Religion; the median significant difference is .086; and .286 of the 49 items show a net difference of .100 or more.

The sign pattern is more interesting than the box score. Table 23 summarizes.

Of the 33 significant associations, all but six (and all of the largest ones) are negative associations for items where Education has a positive relationship. The other six do not have a consistent

<pre>NOTE: * = Not asked of black respondents     ** = Positive sign, not consistently associated with Education.     *** = Negative sign, not consistently associated with Education.</pre>	03 ***7 .02 .01 .00	.06 **0 ***1 9	08 0 0 3 6 9	09 I COMMUN	11 0 3 FEHOME, ABSINGLE 11 0 3 COUPACIANCE, ABSINGLE 0 3 COUPACIANCE, ABNOMORE, NATARMS, C	13 12 9 *RACDIN	1514299PREMARSX, SPKATH, SPKCOM	PREMARSX, SPKATH, SPKCOM *RACDIN FEHOME, ABSINGLE SPKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, SPKN COMMUN COMMUN S COMMUN S COMMUN I associated with Education.	8 9 **7 8 respondent consistent	4 9 5 5 n, not	4 6 6 4 4 4 ive sig	9 9 3 **2 **2 **2 Not a: Posit	9 3 3 3 *** 1 *** 1 *** 1 *** 1 *** 1 *** 1 *** 1 *** 1 *** 1	3 3 1 1 1 0 0 ***0 ***7 ***7 NOTE	16 15 15 11 11 11 11 11 00 00 00 00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	06 ***0 ***1 9 04 0 **2 **2 4 5 **7 8				.10 1 1 2 4 4 <b>0 7 JANNAU JANN</b>	.11 0 3 FEHOME, ABSINGLE .10 1 1 2 4 4 8 9 SPKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1 .09 1 COMMUN .08 0 0 3 6 9	.13 .12 9 *RACDIN .11 0 3 FEHOME, ABSINGLE .10 1 1 2 4 4 8 9 SPKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1 .09 1 COMMUN .08 0 0 3 6 9						I	0	07
.15       REMARSX, SPKATH, SPKCOM         .14       2       9       9         .13       .13       *REMARSX, SPKATH, SPKCOM         .11       0       3       *REMARSX, SPKATH, SPKCOM         .12       9       *REMARSX, SPKATH, SPKCOM         .11       0       3       FEHOME, ABSINGLE         .10       1       1       2       4         .10       1       1       2       4         .10       1       1       2       5         .10       1       1       2       2         .09       1       0       3       5       9         .07       0       1       9       COMMUN       0         .06       **0       **2       **2       4       5       **7         .03       ***7       0       1       9       1       1       1       1         .01         5       **7       8       1	.15       .14       2       9       9       .14       2       9       9         .13       .13       .11       0       3       *RACDIN       *RACDIN         .11       0       3       .12       9       \$SERIORE, ABSINGLE         .11       0       3       .12       \$SERIORE, ABSINGLE         .10       1       1       2       4       4       \$BSINGLE         .10       1       1       2       4       4       \$BSINGLE       \$SERIAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1         .09       1       2       4       4       8       9       \$SERRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1         .00       1       1       2       2       4       4       \$SERRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1         .01       1       1       2       2       9       \$SERRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1         .07       0       1       2       4       4       5       \$SERRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1         .07       0       1       2       4       5       \$SERRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1         .06       ***0       ***1 <td>.15 .14 2 9 9 * *REMARSX, SPKATH, SPKCOM .13 .12 9 * *RACDIN .12 9 * *RACDIN .11 0 3 *REHOME, ABSINGLE .10 1 1 2 4 4 8 9 \$FKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1 .09 1 * COMMUN .08 0 0 3 6 9 * COMMUN .09 1 * COMMUN</td> <td>.15 .14 2 9 9 P PREMARSX, SPKATH, SPKCOM .13 .12 9 *RACDIN .12 9 FEHOME, ABSINGLE .10 1 1 2 4 4 8 9 SPKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1 .09 1 COMMUN</td> <td>.15 .14 2 9 9 . REMARSX, SPKATH, SPKCOM .13 .12 9 . *RACDIN .12 9 . FEHOME, ABSINGLE .11 0 3 . 4 4 8 9 SPKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1</td> <td>.15 .14 2 9 9 PREMARSX, SPKATH, SPKCOM .13 .12 9 *RACDIN</td> <td>. 15 . 14 2 9 9 PREMARSX, SPKATH, SPKCOM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td>.16</td>	.15 .14 2 9 9 * *REMARSX, SPKATH, SPKCOM .13 .12 9 * *RACDIN .12 9 * *RACDIN .11 0 3 *REHOME, ABSINGLE .10 1 1 2 4 4 8 9 \$FKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1 .09 1 * COMMUN .08 0 0 3 6 9 * COMMUN .09 1 * COMMUN	.15 .14 2 9 9 P PREMARSX, SPKATH, SPKCOM .13 .12 9 *RACDIN .12 9 FEHOME, ABSINGLE .10 1 1 2 4 4 8 9 SPKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1 .09 1 COMMUN	.15 .14 2 9 9 . REMARSX, SPKATH, SPKCOM .13 .12 9 . *RACDIN .12 9 . FEHOME, ABSINGLE .11 0 3 . 4 4 8 9 SPKRAC, OBEYS, TRUST, HOMOSEX, ABNOMORE, NATARMS, 1	.15 .14 2 9 9 PREMARSX, SPKATH, SPKCOM .13 .12 9 *RACDIN	. 15 . 14 2 9 9 PREMARSX, SPKATH, SPKCOM								3	.16
16       3       *RACPRES         15       9       9       PREMARSX, SPKATH, SPKCOM         113       13       *RADIN         12       9       1       *RADIN         11       0       3       *RADIN         11       0       3       *RADIN         11       0       3       *RADIN         10       1       1       2       4         10       1       1       2       4         09       1       0       3       5       9         .06       x*0       x*1       9       COMMUN       0         .01       0       1       0       1       0       1         .03       x*1       9       5       x*7       8         .01       0       x*2       4       5       x*7         .02       1       9       5       x*7       8         .03       ***7       8       1       1       1         .01       .01       .01       .01       .01       .01       .01         .00       .01       .02       .03       .04       .02       .	.15       3       *RACPRES         .15       .15       PREMARSX, SPKATH, SPKCOM         .14       2       9       9         .13       .1       1       *RACPRES         .13       .1       1       *RACPR.SX, SPKATH, SPKCOM         .12       9       .1       *RACDIN         .12       9       .1       *RACDIN         .11       0       3       .1         .12       1       1       2         .11       0       3       .1         .10       1       1       2         .10       1       1       2         .10       1       1       2         .09       1       .0       3         .07       0       1       .0         .07       0       1       .0         .06       .4       5       .4         .06       .1       .1       .1         .07       .1       .1       .1         .08       .1       .1       .1         .01       .1       .1       .1         .1       .1       .1       .1	.16       3       *RACPRES         .15       .15       PREMARSX, SPKATH, SPKCOM         .14       2       9       9         .13       .13       *RACDIN         .11       0       3         .12       9       .1         .11       0       3         .12       9       .1         .13       .11       .1         .14       .1       .1         .15       .1       .1         .10       .1       .1         .11       .1       .1         .11       .1       .2       .4       .4         .10       .1       .1       .1       .2         .09       .1       .0       .3       .6       .9         .00       .1       .0       .1       .0       .0         .01       .1       .1       .2       .4       .4       .4         .10       .1       .1       .2       .4       .4       .4         .10       .1       .1       .2       .4       .4       .2       .4       .4       .4       .4       .4       .4       .4 <td>.16     3     *RACPRES       .15     .15     PREMARSX, SPKATH, SPKCOM       .14     2     9       .13     .12     9       .11     0     3       .11     0     3       .10     1     1       .10     1     1       .11     2     4     4       .12     9       .13     .11       .11     0       .11     1     2       .11     2     4     4       .11     1     2     4       .11     1     2     4       .11     1     2     4       .11     1     2     4       .12     1     1     2</td> <td>.16     3     *RACPRES       .15     .15     PREMARSX, SPKATH, SPKCOM       .14     2     9       .13     .1     .1       .12     9     .1       .11     0     .1       .11     0     .1       .11     0     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .1     .1     .1       .1     .1     .1       .1     .1     .1</td> <td>.16 3 *RACPRES .15 9 9 PREMARSX, SPKATH, SPKCOM .13 *RACDIN</td> <td>.16 3 *RACPRES .15 . 9 9 PREMARSX, SPKATH, SPKCOM</td> <td>.16 3 *RACPRES</td> <td>*RACPRES</td> <td></td> <td></td> <td></td> <td>Leaf</td> <td></td> <td></td> <td></td>	.16     3     *RACPRES       .15     .15     PREMARSX, SPKATH, SPKCOM       .14     2     9       .13     .12     9       .11     0     3       .11     0     3       .10     1     1       .10     1     1       .11     2     4     4       .12     9       .13     .11       .11     0       .11     1     2       .11     2     4     4       .11     1     2     4       .11     1     2     4       .11     1     2     4       .11     1     2     4       .12     1     1     2	.16     3     *RACPRES       .15     .15     PREMARSX, SPKATH, SPKCOM       .14     2     9       .13     .1     .1       .12     9     .1       .11     0     .1       .11     0     .1       .11     0     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .11     .1     .1       .1     .1     .1       .1     .1     .1       .1     .1     .1	.16 3 *RACPRES .15 9 9 PREMARSX, SPKATH, SPKCOM .13 *RACDIN	.16 3 *RACPRES .15 . 9 9 PREMARSX, SPKATH, SPKCOM	.16 3 *RACPRES	*RACPRES				Leaf			

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z

Not significant 16 7

association with Education. In other words, whenever both Region and Education both show significant net associations, Northerners tend to line up with the better educated and Southerners with the less educated.

Table 23 shows the items with the largest regional differences to be the "social issues": Race, Sex, and Communism. Despite the annual unveiling of a hip "new South" by the media, the older stereotypical differences still held in the 1970s. This is not to say the gaps have not been closing or that they have--such conclusions require item-byitem analysis with a longer time span, a task beyond the scope of this report (cf., Glenn, 1967, 1974; Glenn and Alston, 1967; Smith, 1977).

Since blacks are disproportionately Southern, and since the opinions characteristic of Southerners are quite different from those characteristic of blacks, one wonders whether black-white differences are accentuated in the South (because of its long tradition of racial separation) or perhaps diminished there (because of the larger black impact on the region). Statistically, the question is whether the data show Race-Region-Opinion interactions. Table 10 gave the basic facts. Significant interactions turned up for only nine items, six of them from the national priority set. Table 24 gives the details.

In the six cases, the significant race difference is stronger in the North, in three cases it is stronger in the South. Considering that thirty-six additional items show no significant interaction, I am willing to consider the Race-Region-Attitude system as essentially additive, the pattern for "Improving the Conditions of Blacks" (Table 25) being more typical than the items in Table 24.

The large Race effect in Table 25 is virtually the same in each region (+.607 and +.597) and conversely, even for a racial item (alas the only one

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Item	Race Difference for Respon	Absolute	
	North	South	
NATEDUC	+.331	+.082	249
NATCRIME	091	+.059	032
NATCITY	+.262	+.126	136
NATENVIR	+.163	+.033	130
JOBHOUR	042	+.075	+.038
NATDRUG	112	+.002	110
CHLDIDEL	087	199	+.112
ABNOMORE	+.011	099	+.088
NATHEAL	+.197	+.098	098

# RACE-REGION-OPINION INTERACTIONS

## TABLE 25

RACE, REGION, AND PRIORITY FOR "IMPROVING THE CONDITIONS OF BLACKS" (Proportion Answering "Spending Too Little")

	Rac	e	Difference	Total
	White	Black	White - Black	10041
Region:				
North	· <sup>244</sup> (3,700)	• <sup>851</sup> (396)	+.607	. <sup>303</sup> (4,096)
South	.192(1,774)	. <sup>789</sup> (350)	+.597	.295(2,124)
Difference North-South	+.052	+.062		+.008
N	· • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	(6,220)

NOTE: Interaction = (.607-.597) = (.062-.052) = .010.

where we have data from both blacks and whites) the South-North difference is virtually the same in both races (+.052 and +.062). Blacks in both regions are strikingly more favorable to racial spending, but Southern blacks are a bit less favorable, just as Southern whites are less favorable than Northern whites.

## Religion

## Conclusion VIII

Religion (Protestant-Catholic) has significant associations with about half the items. The religious differences cut across the Educational (Liberal-Conservative) lines, while blacks and Catholics tend to have strikingly similar positions.

Religion shows net associations with 22 of 49 items (.449), has a median difference of .063 when there is a significant association, and gives a .100 or larger difference for 4 items (.063). Its performance is definitely stronger than that of Occupational Prestige (one can say "as often as not, there is a significant religious difference") but it is clearly less consistent or powerful than Race, Age, Education, and Region. Table 26 reports the details.

Compared to Protestants, Catholics tend to:

be more tolerant of racial intermarriage	(+.126)
be less tolerant of abortion	(+.122, +.109)
favor larger families	(+.105)
give greater priority to solving problems of big cities	(+.096)

Given the greater urbanization of the U.S. Catholic population and the Catholic church's doctrines on family matters, the results for ABSINGLE, ABNOMORE, CHLDIDEL, and NATCITY are what one might expect. As for RACMAR, the finding contradicts the popular belief that Catholics
#### TABLE 26

Stom		Sign
JLEM	Positive	Negative
.12	6 RACMAR	2 ABSINGLE
.11		
.10		5 9 CHLDIDEL, ABNOMORE
.09	6 NATCITY	
.08		3
.07	3	5
.06	1 *2 4 5 6	
.05	0 0 1 8	
.04	5 8 *8	
.03	7	3
.02		
.01		

### SIGNIFICANT NET EFFECTS OF RELIGION (CATHOLIC = +), CONTROLLING FOR RACE AND REGION

NOTE: \* = Not consistently associated with Education. N = 22  $\frac{27}{49}$  Not significant

are "reactionary" but supports previous scientific research on the question (Greeley, 1974, 1977).

The sign pattern in Table 26 tells us still more about the "liberalism" or "conservativism" of Catholics and Protestants: 14 items operate in the same direction as Education, 6 operate in the opposite direction. Fourteen to 6 is not an overwhelming plurality but, if anything, Catholic opinion lines up with the opinions of the better educated, while Protestant opinions tend to match those of the less educated. (Doubtless, one could find lodes of "enlightened" opinions by breaking out the liberal Protestant denominations--but of statistical necessity, such an analysis would leave the remaining Protestant majority even <u>less</u> advanced in its ideas.)

An even more striking pattern emerges in Table 27 where Race and Religion are viewed together.

There is a strong association in Table 27 (Gamma = +.888): blacks and Catholics tend to line up together against whites and Protestants. (One notes the interaction data in Table 10 say that black Catholics, albeit very few in number, are <u>especially</u> anti-abortion and pronatal.) Twenty of the 49 items show the same sign and there is no item where Race and Religion show opposite signs. The agreement cuts across a number of content areas:

A tolerant but pro-family stance on sex and family matters (FEPRES, PREMARSX, PORNLAW, AGED, ABSINGLE, CHLDIDEL)

Liberality on race issues (NATRACE, RACOPEN, RACDIN, RACMAR, RACPRES) A "liberal Democrat" perspective on political issues (NATARMS, NATENVIR, NATCITY, NATHEAL, SPKCOM, GRASS)

"Conservative" personal values (JOBMEANS, anti; MANNERS, pro; HONEST, pro)

### Conclusion IX

Race-Region-Religion-and-Attitude tend to form systems of suppressor variables.

If we reverse + and - for religion, making Protestant the positive end of the dichotomy, the three variables Race, Religion, and Region all have positive net relationships: blacks tend to be Southern and Protestant; Protestants tend to be black and Southern; Southerners tend to be black and Protestant.

## TABLE 27

# NET ASSOCIATION WITH RACE (BLACK = +) BY NET ASSOCIATION WITH RELIGION (CATHOLIC = +)

Polígion		Race	
Religion	Negative	Not Significant	Positive
Positive:		HOMOSEX SPKATH	NATARMS NATCITY NATENVIR *NATHEAL NATRACE HONEST *FEPRES PREMARSX SPKCOM PORNLAW GRASS (RACMAR) (RACOPEN) (RACPRES) (RACDIN)
Not significant:	NATCRIME NATDRUG NATSPAC JOBINC JOBPROMO JOBSEC CONSIDER STUDIOUS ANOMIA7 *GETAHEAD TRUST SPKRAC	*NATAID *JOBHOUR *ROLE RICHWORK FEHOME SPKMIL	*NATEDUC *NATFARE OBEYS FEWORK XMARSEX DIVLAW COMMUN CAPPUN
Negative:	JOBMEANS ABSINGLE MANNERS CHLDIDEL AGED	ABNOMORE	

NOTE: () = Not asked of blacks but positive association assumed.

\* = Not consistently associated with Education.

When two items with a positive relationship have opposite sign associations with a third dependent variable, they act as "suppressors." When one predictor is controlled, the partial association for the other variable increases in magnitude. Conclusions VI, VII, and VIII imply that suppressors will be very common when one examines Race-Region-Religionand-Attitude. Table 8 tells us:

> a) Region (South = +) and Religion (Protestant = +) will have opposite sign associations for:

ABNOMORE, ABSINGLE, CHLDIDEL, JOBMEANS, and MANNERS.

b) Region (South = +) and Race (Black = +) will have opposite sign associations for:

COMMUN, GRASS, NATARMS, NATCITY, NATENVIR, NATHEAL, NATRACE, PREMARSX, SPKCOM, and XMARSEX.

c) Religion (Protestant = +) and Race (Black = +) will have opposite sign associations for:

> ABSINGLE, AGED, CHLDIDEL, FEPRES, GRASS, HONEST, JOBMEANS, MANNERS, NATARMS, NATCITY, NATENVIR, NATHEAL, NATRACE, PORNLAW, PREMARSX, RACDIN, RACMAR, RACOPEN, RACPRES, and SPKCOM.

Twenty-three of the forty-nine items (.469) appear in the lists and twelve appear twice (ABSINGLE, CHLDIDEL, GRASS, JOBMEANS, MANNERS, NATARMS, NATCITY, NATENVIR, NATHEAL, NATRACE, PREMARSX, and SPKCOM).

The result has technical and substantive implications. On the technical side it means that as often as not, the zero order associations for these three background variables and attitudes will underestimate the sizes of the effects that will turn up in a multi-variate analysis. Substantively, it documents the familiar proposition that American social structure is shot through with "cross-cutting" structures that impede polarization into hostile subgroups.

Thus, for example, the standard political coalitions of Older-High Status-White-Northern-Protestant v. Younger-Low Status-Black-Southern-Catholic (see Appendix) are rife with "suppressors" when it comes to attitudes and opinions: Older and High Education operate in opposite directions most of the time; granted Catholic and Black are consistent, South and Black and South and Catholic generate fifteen suppressors; and the Black-Catholic "dimension" tends to be independent of the Young-High Educated-North "dimension," which generates numerous further inconsistencies. (In Table 27, there are twenty-one items where Race or Religion is positive and Education is too, pitting the low SES Democrats against their Black or Catholic allies.)

### Conclusion X

Sex differences appear for about half the items. Men's opinions tend to line up with those of the better educated.

Table 16 shows Sex differences. Since Sex is not associated with the other variables, I merely ran the zero orders and treated as significant those with differences of .03 or larger. The effects are about as powerful as Religion, but clearly less strong than Race, Age, Education, and Region. Sex is associated with half the items (.489), the median significant difference is .063, and six items (.122) give differences of .100 or more. Table 28 gives the details.

Men:

give higher priority to space (NATSPAC = +.153) are more tolerant of pornography (PORNLAW = +.135) are more favorable to the death penalty (CAPPUN = -.112) are more work oriented (RICHWORK = +.107) are more tolerant of premarital sex (PREMARSX = +.104) are less anti-communist (COMMUN = +.100).

The associations are either well known or quite plausibly related to stereotypical differences between the sexes.

TΔ	RT	5	28

ZERO ORDER CORRELATIONS WITH SEX (MALE = +) OF .03 OR MORE

Stor				Sign			
				Positive		Neg	gative
.15	3			NATSPAC			
.14							
.13	5			PORNLAW			
.12							
.11					2		CAPPUN
.10	0	4	7	COMMUN, PREMARSX, RICHWORK			
.09					*8		
.08	4						
.07	2				3		
.06	3	6			*0	9	
.05	1	3	8				
•04	2	7			2		
.03	1	7			*7	8	

NOTE: \* = Not consistently associated with Education.

Of the 21 items consistently related to Education, the sex difference is positive for 16 and negative for 5. Thus, there is some tendency for males to disproportionately endorse the positions associated with greater education. Here again, the 16 to 5 margin is sufficiently underwhelming that it is perhaps better to see Sex as still another crosscutting dimension of attitude formation.

### Conclusions

I have attempted to summarize and document the correlations between background variables (Age, Education, Occupational Prestige, Race, Region, Religion, and Sex) and forty-nine attitude and opinion items from national survey data in the early and middle 1970s. To a considerable--and to me, comforting--extent, the well known findings of previous studies were replicated with a more extensive data set and more elaborate controls than in previous studies. Only one finding, the willingness of the better educated to endorse certain types of government spending, contradicted conventional wisdom.

Did anything new emerge? The best I can do is to report some results that took me by surprise.

(1) I was startled by the relatively poor showing of Occupational Prestige, especially vis-à-vis Education. Considering the endless theorizing about social class, occupations, occupational mobility, indices of status, etc., the apparently small net influence of Prestige on opinions and the apparently large net influence of Education might generate some theoretical reassessments.

(2) I was impressed not only by the size of the Race effects but also by the implication they are cultural, not hierarchical, in origin. Considering the status and history of the American black population, it seems extraordinary that their opinions are more "different" than "downtrodden."

(3) I was struck by the equality of the two Age differences-that is, the lack of evidence that the cohorts from the baby boom have discontinuously different attitudes. While the study of historical change using survey data is in its infancy, I am already impressed by the frequency with which attitude change appears to be a steady secular trend, not much influenced by wars, depressions, court decisions, and the like. A secular trend is by no means an explanation, but the existence of secular trends should lead us to seek longer-term

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historical processes as our explanations rather than the phenomena that dominate the news media.

(4) I was surprised by the absence of many interaction effects even in a data set with rather large N's. The familiar--but seldom documented--claim that social differences are the sum of relatively small effects of a relatively large number of variables describes these results rather well.

### Appendix

Background Variables and Party Identification in the 1970s

Although Party Identification ("Generally speaking, do you usually think of yourself as a Republican, Democrat, Independent, or what?" If independent, "Do you think of yourself as closer to the Republican or Democratic Party?") is not an opinion in the sense of the forty-nine items analyzed above, it is such a widely-used variable that it may be useful to report its relationship to background variables (excluding Sex, which is virtually unrelated to Party).

Existing tabulations give us this information from the pooled 1972-1978 GSS (N = 8,396) with categories very similar to those in the main report.

With the trichotomous dependent variable (Republican-Democratic-Independent with no-leaning) one drops one category (here, Independent) to avoid redundancy. That done, Republican and Democratic are no longer mutually exclusive. Consequently, it may be interesting to look at (a) Independence = Republican Difference + Democratic Difference with sign reversed and (b) the Democratic plurality = Democratic Difference - Republican Difference.

Table A(1) gives the results.

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NET ASSOCIATIONS WITH PARTY IDENTIFICATION

Variabla/	Repub	lican	Democi	catic	(a)	(P)
variaute/ Comparison	Diff.	2 Sigma	Diff.	2 Sigma	Independent	Plurality
Age:			c			
54+ v. 34-53	+.067 <sup>a</sup>	(.032)	050 <sup>ª</sup>	(920)	017	117
34-53 v. 18-33	017	(030)	+.032	(,036)	015	+.049
Education:			,			
13+ v. 12	+.046 <sup>8</sup>	(,034)	050 <sup>a</sup>	(.038)	+.004	096
12 v. 0-11	+.015	(.032)	011	(.038)	+•004	+.026
Occupational Prestige:			c			
46-82 v. 33-45	+.058 <sup>a</sup>	( 7034 )	071 <sup>a</sup>	(.038)	+.013	129
33-45 v. 0-32	+.009	(.030)	007	(920)	002	+.016
Ethnicity:	1		a			
Black v. Yankee	-,335 <sup>a</sup>	(920)	+.375	(.042)	040	+.710
Northern-White-Catholic v. Yankee	217 <sup>a</sup>	(926)	+.215 <sup>a</sup>	(.038)	+.002	+.432
Southern-White-Catholic v. Yankee	217 <sup>a</sup>	(1064)	+.209 <sup>a</sup>	(916)	+.008	+.426
Southern-White-Protestant v. Yankee	101 <sup>a</sup>	(040)	+.100	(040)	+.001	+.201
NOTE: Yankee = White, N .411 (±.055); Democratic = .436	on-South, Pr (±.055).	otestant.	Constant	(Intercep	t) values: Re	publican =

<sup>a</sup>Significant at the .05 level after doubling variances to correct for multi-stage sampling.

The main conclusions seem to be these:

- (1) None of the background variables show much relationship with Independence v. Some Party.
- (2) Older Americans (54 and older) are more Republican, but younger Americans (18-33) do not differ from those 34-53.
- (3) College people are more Republican than High School, Grade School respondents don't differ from High School.
- (4) High Prestige (46-82 on the Hodge-Siegel-Rossi scale) respondents are more Republican, but low prestige workers (0-32) don't differ much from middles.
- (5) Compared with "Yankees" (White, Non-Southern Protestants):
  - (a) Blacks are much more democratic.
  - (b) Catholics are much more Democratic, the effect being virtually the same for Northern and Southern Catholics.
  - (c) Southern White Protestants are definitely more Democratic.

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