

Ross School of Business at the University of Michigan

Independent Study Project Report

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- STUDENT : Leigh Shao-Ning Huang
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MARKETING 399 RESEARCH PAPER

CROSS-CULTURAL MEMORY DIFFERENCES FOR ADVERTISEMENT

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PURPOSE OF THE STUDY

Many have claimed that our world is becoming a huge global village where all will be similar, it is important to acknowledge that cultural differences^rexist (several psychology studies have proven that differences across culture groups do exist.) These inevitable differences have important effects on us, causing differences in perceptions, values and perhaps even memories.

In this study, we are interested in finding out if the cultural differences between the East and the West indeed affect our memories; and if so, how does it affect. Through the findings and the results, we could perhaps discover how people of the Western culture remember better and how companies could then tailor their printed advertisements to strike more lasting impressions in this culture group. Similarly for the Asian consumers, if our study hypothesis proves to be right, firms may wish to employ more congruent and social-oriented advertisement designs to induce better consumer memory for their brand names.

Our study might even offer some explanations as why certain types of advertisements are not as effective with one culture versus another, assuming that the product in concern is equally applicable and familiar in both cultures.

ABSTRACT

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CROSS-CULTURAL DIFFERENCES IN ADVERTISEMENT MEMORY

Background Information

The way East Asians (Chinese, Korean and Japanese) process information has always been distinguished as holistic and relational. This simply means that parts exist within wholes and their relationship is inseparable. An example to illustrate this would be in Chinese writing system. Each individual Chinese character consists of a radical and another part(s) to become a meaningful whole. This holistic and context-dependent way of thinking may be attributable to their culture and society. Chinese culture is highly collectivist and grouporiented. Their social behavior is primarily based on relationships with others and with the environment. On the contrary, the Western society emphasizes and cultivates individualism. The American culture in particular is person-centered and tend to isolate the individual from relationships, roles, and social contexts when determining causes of behavior (Morris, Nisbett & Peng, 1995).

HYPOTHESES

The two key purposes of this study were to find out if culture differences affect memory performance and if memory performance deviates when subjected to different stimuli.

Hypothesis 1

In accordance to the first study objective, we hypothesize that culture differences would cause differential memory performance. Given the holistic information-processing characteristic of the Eastern Asians, we hypothesize that the Chinese would have better memory when exposed to a social oriented environment. They would gather all the different pieces of information from the given situation, group them and remember the details as a whole. The Westerners, in the contrary, would outdo the Asians when given information in details or in solidarity, since they are shown to be more analytical and tend to isolate information from its context.

We devised an advertisement-related memory task, consisting of product advertisements on two different kinds of backgrounds for the study purpose. The products are set in two different kinds of settings, either social or asocial. In the social backgrounds, the scenes are congruent to the product categories, either of people interacting with each other or with the product, while simple outlines of random and repetitive shapes make up the asocial backgrounds.

Given the different ways of processing information, we expected the Chinese participants to remember better advertisements with social backgrounds. The American participants on the other hand were expected to score better with the asocial backgrounds than with the social ones. Since Americans process information by singling out the relevant pieces, the rich information presented by the social backgrounds might distract them and cause them to perform not as well with social context advertisements.

The second hypothesis we hold is that different stimulants would cause differences in memory performances. Since previous studies have shown that the Asian cultures are more wheir process holistic, we expected the Chinese to perform better when stimulated visually. The Americans are expected to do well when primed verbally as they are more analytical and detail oriented. We administered either a verbal or a visual priming test for each participant before they embarked on the advertisement memory test. We predicted the following results:

- a) Chinese subjects who were given the visual task would have better memory than Chinese who were given the verbal task;
- b) American subjects who were given the verbal task would have better memory than Americans who were given the visual task;
- c) Among subjects who were given the visual priming task, the Chinese would have better memory performance than the American subjects;
- d) Among subjects who were given the verbal priming task, the Americans would have better memory performance than the Chinese subjects would.

METHOD

Participants

All 53 subjects recruited for this study were University of Michigan undergraduate students (aged 18-23 years, M = 20.5). The 27 Caucasian American participants were chosen from a participant pool of Business School students. They were remunerated course credits for taking part in the experiments. The 26 Chinese participants were recruited from the university's international student associations (mainly Hong Kong Students Association and Singapore Students Association) and by word of mouth. The are either Chinese from Hong Kong, Singapore, Taiwan, or Mainland China. These subjects were compensated \$8 to \$10 for their participation.

In order to be qualified for our study, American and Chinese subjects had to be proficient in English or Chinese respectively. This is because the Americans would perform the experimental tasks in English whereas the Chinese would perform theirs in traditional Chinese. We also wanted to ensure that the subjects were able to correctly understand and complete their language version of the study materials.

Since the Chinese participants are undergraduate students studying in the United States, we had to ensure that they had not been acculturated (i.e., undergone psychological and social processes in response to a changing cultural context; Berry, Poortinga, Segall & Dasen, 1992) during their years in college. To resolve this problem, we initially screened them for the number of years they had lived in North America. If the subjects lived in North America for a total of less than five years, their chances of preserving their Chinese culture were higher; hence, were welcomed to participate in the study.

To double-check that the data for Chinese subjects was not skewed by their acculturation, we included in the task materials an English or Chinese version of Singelis' (1994) Self-Construal Scale (SCS). The P-levels of the SCS results were all higher than 0.10; therefore, none of the results were significantly different. This implied that the Chinese subjects are similar with the Americans in terms of independence measures. We attributed this to the fact that the Chinese participants have been studying in the U.S. for at least two years and have gained a significant level of independence while their stay away from home. During their stay here, they might have assimilated to the American culture too.

It is to be noted that the Chinese participants have an overall higher score for interdependence measure than the American counterparts. Though we had expected the Chinese to be less independent than the Americans, we suffice the higher inter-dependence measure as the cultural difference between the two groups.

The above finding might distort the results of our overall research. However, the significance of its distortion is unknown. We assumed that the distortion could not be great

because we had the initial screening process whereby Chinese subjects who lived in North America for more than five years were prohibited from participating in our study. In addition, our Chinese subjects have an average of 12.3 years of formal education in the Chinese Language in their respective country of origin.

Test Materials and Procedure

Bilingual research assistants individually administered the half-hour study to participants in either Chinese or English. The Chinese-speaking participants were given verbal and written instructions both in Mandarin Chinese and English, while the American participants were provided with the equivalent instructions in English. Each participant was then given a test booklet containing five separate tasks. The tasks in both the Chinese and English booklets were essentially the same, with the only difference in the language medium. Each participant was also informed that the purpose of our research was to investigate public perceptions of print advertisements.

The first part of the test booklet consists of a priming task. Half of the participants received the verbal priming task while the other half the visual one. In the visual priming task, participants were given ten picture questions. Each question consisted of a pattern picture with a missing piece. The task was to select the best fitting piece from four alternatives. In the verbal task, each subject was to form ten words with alphabets from each of the three given words. Due to the difference in language constructs, the Chinese verbal priming task required each participant to form ten Chinese characters with the same radical as each of the three given characters.

Right after the priming task, each participant was shown 12 printed advertisement prototypes. There were two separate sets of ad prototypes, both having the same product categories. Set A consisted of six product advertisements in colored social backgrounds, with the remaining six products in asocial (i.e. black and white plain repetitive patterns) background. Set B carries the same 12 products, but each product was set in the alternative background as in Set A. All ad prototypes were arranged in the same sequence in both sets. The ad prototypes, which had written on it the product category and product brand name, were prepared both in English and Chinese.

Half of the participants were given set A while the other half, set B. The participants were shown the ads right after the priming task and were instructed to look through them carefully. The ads were taken away from the participants before they proceeded with the second part of the booklet.

In the second part, the participants were given two open-ended questions, product category / brand name matching questions, and lastly, attitudinal questions. In the open-ended questions, the participants were asked to recall as many details as they could regarding the advertisements they had been shown. In the matching test, participants were asked to identify if each brand name was paired with the correct product category as were in the ads (The product brand names that appeared on the ad prototypes and questions were generic names created by the researchers. A pretest on the created names was conducted to ensure the generality of the names. No existing or established names were used to prevent memory effects from previous knowledge). In the last part, participants were asked their attitudes toward each of the ad seen.

The third and last section of the booklet constituted of the Self-Construal Scale (Singelis, 1994) and a demographic questionnaire, gathering data on age, gender, and language knowledge. After completing our study session, the participants were debriefed, thanked, and compensated for their participation.

Dependent Measure: Memory

The primary dependent measures of memory were based on the three tests in the second section of the booklet. The tests were two recall tests and a name-matching test.

In the recall tests, the participants were given two open-ended questions. In the first question, they were asked to recall as many details regarding the ads that they were shown. In the second open-ended question, the participants were asked their personal opinions regarding the ads seen. With these two tests, we were attempting to find out if the individuals could better remember the ads, product categories and/or brand names when the ad was set in a social background or in an asocial background. The brand name / product matching test was designed with the same motive.

Results

After collecting the 53 completed surveys, we coded the results on Microsoft Excel. We next transferred the data and ran it in the SAS System. From the output generated by the program, we were able to find the following:

Hypothesis 1: Effects of Cultural Differences on Memory

The product category / brand name matching task results indicated that Americans had better memory than their Chinese counterparts, irregardless of the priming and the ads backgrounds (social or asocial.) Moreover, when we compared the effects of the social and asocial backgrounds on the recall, the data did not show a significant difference (P > 0.01.) This meant that the results from the matching task did not prove our hypothesis that Chinese . have better recollection of information when they were given a social background.

Most of the results from the recall task suggested that ethnicity affects memory; however, they supported that overall Americans had better memory of the advertisements. Nevertheless, there was one instance when the data showed otherwise. In the recall of brand names in social backgrounds, we found that Chinese remembered more of the information when primed visually and Americans remembered more when primed verbally. Not only was this the one and only result that supported Hypothesis 1, it also supported Hypothesis 2.

One interesting point to take note from the recall results was the amount of correct and incorrect matches of background / brand name, background / product category, and brand name / product category. For all matches, Americans had the higher scores for both the numbers of correct and incorrect answers. From our judgment, we attributed this to the fact that Americans tend to reveal all information they know, disregarding whether the information is accurate or not. Chinese are inclined towards only writing information they feel are correct.

Hypothesis 2: Visual or Verbal Priming Effects on Memory

By contrasting the data on the number of remembered items from both the Chinese and American groups, and from both the visual-primed and verbal-primed groups, we have arrived at the following conclusions.

Within the verbal-primed group, the Americans have a significantly better recall rate than the Chinese (P<0.1.) This result is consistent through out all the recall tests on brand names, product categories and background recollections. In addition to that, we also found that the American recall results are relatively better when given asociai backgrounds. These two outcomes have proven point (d) in the second hypothesis.

Within the American subject group, we however cannot find a conclusive answer as to whether Americans remember better when primed verbally or visually. Two tests (total number of brands remembered and background / name match) gives significance level less than 0.1, meaning that the verbally primed Americans remembered significantly better than the visually primed Americans; however, the same result is not seen in other tests. Hence, we cannot conclude positively to point (b) of the hypothesis.

We also fail to prove points (a) and (c) in our second hypothesis. Though a few results attest that Chinese recalls better when primed visually, not all test results are supportive of such a conclusion. Similarly, although the mean scores of remembrance for visually primed Chinese is higher than that of the visually primed American group, the difference is not significant enough to draw a positive conclusion to point (c).

Summary

On one hand, our research has successfully concluded that ethnicity or culture in general does affect one's memory. In the case of commercial advertisements, Americans have a better recall ability than the Chinese participants do. On the other hand, our study has failed to resolve if human memory performance in fact can be affected by different external stimuli. Though some of our experiment results support our hypothesis, others do not. To be cautious, we shall conclude that there is no significant difference in memory when subjected to different primes.

There are a few points that we feel necessary to highlight here. The issue on Chinese acculturation, as mentioned previously, might constitute a potential error in our research. According to Singelis (1994), Asians from Asia or who are still living in their country of birth, have low scores for independence but high scores for interdependence, while the Westerners have high independence scores and low interdependence scores. Contrast to this research conclusion, our Chinese participants (mainly international students from Hong Kong and Singapore) have a relatively high independence score, while maintaining high interdependence figures. This understanding may hurt the credibility of our research, as the Chinese participants are not as "Asian" as we initially expected.

It is also to be noted that Singapore and Hong Kong are presumably the two most Westernized countries in the East (colonial backgrounds), and that in Singapore, all students receive English education since kindergarten. This may help to explain why the participants are more "Westernized" (scoring high for the independence study) than other Asians. Similarly, these undergraduate students have been living here for at least 2-3 years without their families. This could possibly explain why their independence score is not significantly different from the American undergraduates, since both are living away from home and learning independence.

Our test result has shown that Chinese has not as good a memory as their American counterparts. However, we feel that this may not be necessary true. Given that these international students are pursuing their undergraduate degrees in a totally American environment, they have little chance to use their Chinese Language (since majority of their brain processing work would be done in the English language.) Despite a high language proficiency (almost 95% of the Chinese participants answered the open-ended recall questions in total Chinese, demonstrating a high level of language proficiency; While a lew sprinkled their responses with English terms), the lack of use and practice might have somehow impaired their Chinese language skills. This might lead to a lower recall.

In the meantime, it is also noted by a fair number of the Chinese participants that they found the brand names difficult to remember. They pointed out that these names are direct translations and they felt that these names do not 'fit' the respective product categories. It is true that all brand names are directly translated and that the brand names are generic, so as to minimize any possible correlation with the product categories. Though it is justified that the American participants had to work with the same generic names, it is possible that the names are easier to remember in English than in Chinese, given the difference in language construct. If we were to repeat the same experiment, it may be a better idea to adopt totally different brand names for the two languages chosen, so as to prevent any foreign-sounding terms.

nicely executed experimental study which required work sapes center however have better addressed haue 13

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Morris, M.W., Nisbett, R.E., & Peng, K. (1995). Causal attribution across domains and cultures. Oxford: Clarendon Press.

Singelis, T.M. (1994). The measurement of independent and interdependent selfconstruals. <u>Society for Personality and Social Psychology</u>, 20, 580-591.

APPENDIX

- 1) English Version of Questionnaire with visual priming
- 2) English verbal priming test
- 3) Chinese Version of Questionnaire with visual priming
- 4) Chinese verbal priming test
- 5) Ad prototypes set A (English)
- 6) Ad prototypes set B (English)
- 7) Data Output

General instructions

This booklet contains five separate study tasks.

The first one is a brief, five- minute task, intended to put you in a relaxed but thinking mode before commencing the main study. Then in the main section, you will be shown copies of advertisement prototypes. Right after that, you will answer questions related to the ads that you have just been shown. Next, you will perform an intriguing mind teasing task and answer some questions that determine how representative you are of the general population.

Please read and follow instructions that will be stated before every task very carefully. If you have any questions, please raise your hand and the administrator of the study will help you. Please do NOT interrupt the study by asking your questions out loud. It is important that your comments not influence others.

Complete each page in this booklet in the order it appears. Please look up now and indicate to the administrator that you are ready; please wait for further instructions.

Study Task:

In this task, you will be asked to make judgements about patterns. Please look below and you will find a pattern with a piece missing. Each of the small pieces at the bottom of the page is the right shape to fit the space, but do not complete the pattern. Go ahead and circle the number of the piece that completes the pattern. For example, the correct piece to complete the pattern in Question 1 is 2.



There are altogether 10 similar questions in this practice (Q.2 - Q.11) The questions are simple at first and get more difficult as you go on. If you pay attention to the way the easy ones go, you will find the later ones less difficult. Try each in turn, going from the beginning to the very end of the task.

You will be timed as you do the test. Please work as quickly as you can.

PLEASE DO NOT TURN THE PAGE UNTIL ASKED TO DO SO.

Circle the correct response.





liemember, there is only one best answer.















Remember, there is only one best answer.





Remember, there is only one best answer.

















Remember, there is only one best answer.















Remember, there is only one best answer.





Remember, there is only one best answer.















Remember, there is only one best answer.





Remember, there is only one best answer.





Remember, there is only one best answer.

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Remember, there is only one best answer.



Now, we would like to show you 12 advertisement prototypes. These ads are sample ads for future product launch. We will be asking you questions on these products in the following section.

Please raise your hand when you are ready to begin.

DO NOT TURN THE PAGE UNTIL TOLD TO DO SO

In the following section, we would like to ask you for your thoughts and feelings about the different products that you have just seen featured in the ads.

Please read the instructions carefully. Feel free to ask for clarifications at any time. It is important that you answer the questions in the order that they appear on the page. Also, please take your time in answering the as it is important for us to get as accurate a picture of your opinions as possible.

Please circle the number that corresponds to your thoughts and feelings on the following pages.

In this task, we are interested in what you can recall from the ads. In the space provided below, please try to describe as many of the ads as accurately and completely as possible. Write down any brand names or product categories that appeared in the ads, even if you are not sure about them. If you can remember only parts of the advertisements (e.g., words,) or components of pictures (e.g., sun, child, logos), please describe whatever you can recall.



Now, we would like you to tell us about any responses you had about the ads that you saw. In the space provided below, please try to describe your thoughts, feelings, and opinions about as many of the ads as possible. For example, you might describe how a particular ad made you feel, how well you liked it or what you thought about brand name, pictures featured in the ads, product design, etc. Please be very detailed in describing your responses.



In this task, we would like to find out how memorable you found each of the brand names you saw in the ads. For each pair of the product category and brand name listed below, please circle 'Yes' if you remember the brand name as having been featured in the ads that you saw; and circle 'No' if you do not remember the brand name as having been featured in the ads. It is extremely important that you do not refer back to any of the previous pages.

1.	Metua	Camera	Yes	/	No
2.	Rondy	Soft Drink	Yes	/	No
3.	Zenx	Wrist Watch	Yes	/	No
4.	Derver	Color Printer	Yes	/	No
5.	Sher	Shampoo	Yes	/	No
6.	Jugue	SUV	Yes	/	No
7.	Ioda	Camera	Yes	/	No
8.	Jugue	Wrist Watch	Yes	/	No
9.	Razol	Sunglasses	Yes	/	No
10.	Ioda	Bicycle	Yes	/	No
11	Aidia	Sunglasses	Yes	/	No
12.	Derver	Dog Food	Yes	/	No

Continued on the next page.

13. Razol	Bottled Water	Yes	/	No
14. Zenx	Bicycle	Yes	1	No
15. Danrael	SUV	Yes	/	No
16. Lusa	Pain Reliever	Yes	1	No
17. Rondy	Alcohol	Yes	/	No
18. Lusa	Soft Drink	Yes	/	No
19. MeW	Dog Food	Yes	1	No
20. Sher	Color Printer	Yes	/	No
21. Aidia	Shampoo	Yes	/	
22. Endyce	Bottled Water	Yes	/	No
23. Endyce	Pain Reliever	Yes	/	No
24. Danrael	Alcohol	Yes	/	No
Please circle the number that you feel best reflects how you feel about these brands that were featured in the advertisements that you saw. <u>It is extremely important that you</u> do not refer back to any of the previous pages.

Metua Camera

Negative Bad Unfavorable	-4 -4 -4	-3 -3 -3	-2 -2 -2	-1 -1 -1	0 0 0	1 1 1	2 2 2	3 3 3	4 4 4	Positive Good Favorable
Jugue SUV										
Negative Bad Unfavorable	-4 -4 -4	-3 -3 -3	-2 -2 -2	-1 -1 -1	0 0 0	1 1 1	2 2 2	3 3 3	4 4 4	Positive Good Favorable
Aidia Shampoo										
Negative Bad Unfavorable	-4 -4 -4	-3 -3 -3	-2 -2 -2	-1 -1 -1	0 0 0	1 1 1	2 2 2	3 3 3	4 4 4	Positive Good Favorable
Ioda Bicycle										
Negative Bad Unfavorable	1 -4 -4	5. 5. 5.	-2 -2 -2	-1 -1 -1	0 0 0	1 1 1	2 2 2		4 4	Positive Good Favorable
Zenx Wrist Watch										
Negative Bad Unfavorable	-1 -1 -1		-2 -2 -2	-1 -1 -1	0 0 0	 	2 2 2	3 3 3	1 1	Positive Good Favorable
Danrael Alcohol										
Negative Bad Unfavorable	-4 -4 -4	-3 -3 -3	-2 -2 -2	-] -[-]	0 0 0	1 1 1	2 2 2	333	4 4 4	Positive Good Favorable

Razol Sunglasses

Negative	-4	-3	-2	-!	0	1	2	3	4	Positive
Unfavorable	-4 -4	-3	-2 -2	-1 -1	0	1	2 2	3	4 4	Good Favorable
Derver Dog Food										
Negative	-4	-3	-2	-1	0	1	2	3	4	Positive
Bad	-4	-3	-2	-1	0	1	2	3	4	Good
Unfavorable	-4	-3	-2	-1	0	1	2	3	4	Favorable
Sher Color Printer										
Negative	-4	-3	-2	-1	0	1	2	3	4	Positive
Bad	-4	-3	-2	-1	0	l	2	3	4	Good
Unfavorable	-4	-3	-2	-1	0	1	2	3	4	Favorable
Endyce Bottled Water										
Negative	-4	-3	-2	-1	0	I	2	3	4	Positive
Bad	-4	-3	-2	-1	0	1	2	3	4	Good
Unfavorable	-4	-3	-2	-1	0	1	2	3	4	Favorable
Lusa Pain Rehever										
Negative	-4	-3	2	-1	0	1	2	3	4	Positive
Bad	-4	-3	-2	-1	0	1	2	3	4	Good
Unfavorable	-4	-3	-2	-1	0	1	2	3	4	Favorable
Rondy Soft Drink										
Negative	-4	-3	-2	-1	0	I	2	3	4	Positive
Bad	-4	-3	-2	-1	0	1	2	3	4	Good
Unfavorable	-4	-3	-2	-1	0	1	2	3	4	Favorable

Instructions

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This is a questionnaire that measures a variety of feelings and behaviors in various situations. Listed below are a number of statements. Read each one as if it is referred to you. Below each statement is a scale. Put an 'x' above the number that best matches your agreement or disagreement. Please respond to every statement. Thank you.

- 1 = STRONGLY DISAGREE
 2 = DISAGREE
 3 = SOMEWHAT DISAGREE
 4 = DON'T AGREE OR DISAGREE
 5 = AGREE SOMEWHAT
 6 = AGREE
 7 = STRONGLY AGREE
- 1. I enjoy being unique and different from others in many respects.



2. I feel comfortable using someone's first name soon after I meet them, even when they are much older than I am.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

3. Even when I strongly disagree with group members, I avoid an argument.



4. I have respect for the authority figures with whom I interact.

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 3
 4
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 6
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 Strongly
 Strongly
 Agree

5. I do my own thing, regardless of what others think.

1	2	3	4	5	6	7
Strongly Disagree				-		Strongly Agree

6. I respect people who are modest about themselves.

 1
 2
 3
 4
 5
 6
 7

 Strongly
 Strongly
 Agree
 Agree

7. I feel it is important for me to act as an independent person.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

8. I will sacrifice my self-interest for the benefit of the group I am in.

1	2	3	4	5	6	7
Strongly Disag ree						Strongly Agree

9. I'd rather say "No" directly, than risk being misunderstood.

ł	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

10. Having a lively imagination is important to me.



11. I should take into consideration my family members' advice when making any life plans.



Strongly	Strongly
Disagree	Veree

12. I feel my fate is intertwined with the fate of those around me.



13. I prefer to be direct and forthright when dealing with people I've just met.



14. I feel good when I cooperate with others.



15. I am comfortable with being singled out for praise or rewards.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

16. If my brother or sister fails, I feel responsible.



17. I often have the feeling that my relationships with others are more important than my own accomplishments.



18: Speaking up during class (or a meeting) is not a problem for me.



19. I would offer my seat in a bus to my professor (or my boss).

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

20. I act the same way no matter who I am with.

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21. My happiness depends on the happiness of those around me.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

22. I value being in good health above everything.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

23. I will stay in a group if they need me, even when I'm not happy with the group.

<u> </u>	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

24. I try to do what is best for me, regardless of what others think.



25. Being able to take care of myself is a primary concern for me.



26. It is important to me to respect decisions made by the group.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

27. My personal identity, independent of others, is very important to me.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

28. It is important for me to maintain harmony within my group.

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

29. I act the same way at home that I do at school (work).

1	2	3	4	5	6	7
Strongly Disagree						Strongly Agree

30. I usually go along with what others want to do, even when I would rather do something different.



,

Thank you very much for answering the questions. Before you go, we would like to know a little bit about you. Please answer the following questions. All information provided will be kept confidential.

Gender: 1. Female 2. Male

 Age :______

 Spoken English Language Fluency : 1. Very Fluent

 2. Proficient

 3. Fair

 Is English your First language / Mother tongue? Yes / No

 Number of years of Formal English Education :______years

 Do you speak any other languages? Yes / No

 If yes, please list them all here.

Study Task

This task is intended to refresh your mind and put you in a relaxed but thinking mode before beginning the main study.

Below you will find 3 words which are followed by 10 blank lines. For each word, try to write down 10 words of <u>3 or more letters</u> that can be formed from the letters of the word. For example, if the word "maintenance" was presented below, 5 of the words you form might be: main, ten, aim, team, cat. Be sure you see how each of these words might be formed from the word "maintenance."

Now try to identify 10 words that can be formed from the words presented below. Remember that all words must be composed of <u>3 or more letters</u>. Please try to come up with 10 words for each word but regardless of whether you do so, DO NOT SPEND MORE THAN 5 MINUTES ON THIS ENTIRE TASK. Please work as quickly as possible.

inflammatory	environmental	complimentary
na <mark></mark>	·	<u></u>
<u>، </u>	······································	
·······		

説明

本册子内共分五個部分。

第一部分是一個簡單的頭腦體操,主要是讓你先輕鬆一下,活動活動 腦筋。在正式的問卷調查開始前,我們會讓你看一些平面廣告的樣板 。之後,我們會請你回答一些有關這些廣告的問題。在你完成這些問 答後,我們也還將向你收集一些有關你個人的看法和想法。

在你開始回答問題以前,請務必仔細閱讀所有的指示。如有疑問,請 舉手。負責的同學會盡量幫助你解決問題。在調查進行期間,請不要 大聲喧嘩,以免打擾其他的參加者。

請依順序完成這份問卷。現在,請抬頭,向前看,讓負責同學知道你已準備好,能開始作答了。

練習:

在以下練習中,每一個圖案都缺少了一小塊。在每一個 圖案下,有六塊圖案的組成部分,其中之一是和圖案中 短缺的那小塊相吻合的。你的任務就是從這六塊中選出可 以正確完成圖案的那一小塊,並在相應的號碼上畫圈。 例如第一題:正確答案是2,所以要在2上畫圈。





本部分的練習中共有十道類似第一題的題目(Q2 - Q11) 難度將會逐題增加。為了讓你逐漸習慣這類題目,請從 前面開始做起。我們會為每位參加者計時。請盡量減少 花在每一題上的時間。

在負責人未給予指示前,請不要自行翻閱題目。你必須在 負責人給予指示後,才可開始做題。

請圈出正確答案的號碼。注意:請選出量適當的答案。

請圈出正確答案的號碼·注意:請選出量適當的答案。





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請圈出正確答案的號碼。注意:請選出<u>最</u>適當的答案。



5.



請圈出正確答案的號碼。注意:請選出量適當的答案。















請圈出正確答案的號碼。注意:請選出量適當的答案。















請圈出正確答案的號碼。注意:請選出量適當的答案。









請圈出正確答案的號碼。注意:請選出量適當的答案。













請圈出正確答案的號碼。注意:請選出<u>最</u>適當的答案。





請圈出正確答案的號碼。注意:請選出量適當的答案。





請圖出正確答案的號碼。注意:請選出量 適當的答案。



· · ·

現在,我們將讓你看12個平面廣告版。我們主要是想知道你對這些廣告,廣告中的產品,產品牌子等等有何看法。這些廣告都是為了下一季的產品推銷而設計的。在看完這些廣告後,我們將會針對這些廣告對你提出問題。所以,請仔細觀這些樣板

在接下來的兩道問答題中,我們主要是想發掘大眾對這些產品所可能 產生的反應。這些問題並没有標準答案。所以請别顧慮你的答案是對 或是錯。

在開始回答問題前,請仔細閱讀問題的指示。如有任何不清楚的地方,請舉手發問。同時,請盡量回答所有的問題。

你所有的看法和意見都是寶貴的。

在這一項目中,我們想知道你能記住多少有關你剛剛看過的平面廣告。請 在下方的空格上,盡你所能地,回想並形容你剛才看過的廣告。寫下你所 能記得的任何内容,如在廣告中出現過的産品和產品品牌等等。如果你只 能記住其中的一小部分(如:廣告背景或圖案),也請你把它寫下來。任 何你所能記得的,請你都寫下來。 現在,請盡你所能的,將你剛才在看廣告(任何一篇廣告)所産時所產生的各種看法,想法或意見寫在下方的空格内。所涉及的廣告越多,就越好。例如,你可形容你在看到其中一篇廣告時的第一反應;或者,你可對某篇廣告的設計發表看法;又或者,你可寫下你對某個牌子的意見。請仔細地形容你所有的觀後感。

在 。 如	以下各題中, 如果產品和品 果兩者不能配	請指出該對産品和品名	是否 見的 千	和相萬	「你在廣告中所見的一樣 「同,請圈"是"; 「不可翻閱或參考前頁。
1.	美湍	照相機	是	1	否
2.	德凡	打印機	是	1	否
3.	尚	洗髮精	是	1	否
4.	九谷	吉普車	是	/	否
5.	幽達	照相機	是	1	否
6 .	九谷	腕表	是	1	否
7.	拉棕	太陽眼鏡	是	1	否
8 .	尚	打印機	是	1	否
9 .	隆氏	汽水	是	1	否
10.	幽達	自行車	是	/	否
11.	艾迪亞	太陽眼鏡	是	/	否
12.	德凡	狗食	是	/	否

請翻到下一頁繼續作答。

13. 拉棕	礦泉水	是 / 否
14. 善狄士	自行車	是 / 否
15. 鹿紗	止痛劑	是 / 否
16. 隆氏	洋酒	是 / 否
17. 鹿紗	汽水	是/否
18. 美湍	狗食	是 / 否
19. 艾迪亞	洗髪精	是 / 否
20. 丹萊爾	吉普車	是 / 否
21. 安帝思	礦泉水	是 / 否
22. 善狄士	腕表	是 / 否
23. 安帝思	止痛劑	是 / 否
24. 丹萊爾	洋酒	是 / 否

請圈出最能代表你對剛才所看的廣告的想法的數字<u>。請注意,</u> <u>千萬不可翻閱或參考前頁。</u>

美湍照相機

	消極的	-4	-3	-2	-1	0	I	2	3	4	積極的
	坏的	-4	-3	-2	-1	0	1	2	3	4	好的
	不宜的	-4	-3	-2	-1	0	I	2	3	4	有利的
		,									
九谷吉智	等車										
	消極的	-4	-3	-2	-1	0	1	2	3	4	積極的
	坏的	-4	-3	-2	-1	0	1	2	3	4	好的
	不宜的	-4	-3	-2	-1	0	l	2	3	4	有利的
艾迪亞洲	主爱精										
	消極的	-4	-3	-2	-1	0	1	2	3	4	積極的
	坏的	-4	-3	-2	-1	0	1	2	3	4	好的
	不宜的	-4	-3	-2	۰I	0	1	2	3	4	有利的
幽達自行	F. 車										
	消極的	-4	-3	-2	-1	0	1	2	3	4	積極的
	坏的	-4	-3	-2	-1	0	1	2	3	4	好的
	不宜的	-4	-3	-2	-1	0	l	2	3	4	有利的
善狄士腕	/表										
	消極的	-4	-3	-2	۰l	0	1	2	3	4	積極的
	坏的	-4	-3	-2	-1	0	1	2	3	4	好的
	不宜的	-4	-3	-2	-1	0	1	2	3	4	有利的
<i>丹萊爾洋</i>	酒										
	消極的	-4	-3	-2	-1	0	1	2	3	4	積極的
	坏的	-4	-3	-2	-1	0	1	2	3	4	好的
	不宜的	-4	-3	-2	-1	0	I	2	3	4	有利的

拉棕太陽眼鏡

	消極的 坏的 不宜的	-	4 -: 4 -: 4 -:	3 -2 3 -2 3 -2	- 1 - 1 - 1	0 0 0	1 1 1	2 2 2	3 3 3	4 4 4	積極的 好的 有利的
德凡狗食	*										
	消 極的 坏的 不宜的		4 -3 4 -3 4 -3	-2 -2 -2	-1 -1 -1	0 0 0	1 1 1	2 2 2	3 3 3	4 4 4	積極的 好的 有利的
尚的彩色	打印記										
	消極的 坏的 不宜的	-4 -4	-3 -3 -3	-2 -2 -2	-1 -1 -1	0 0 0	1 1 1	2 2 2	3 3 3	4 4 4	積極的 好的 有利的
安帝思确	泉水										
	消極的 坏的 不宜的	-4 -4 -4	-3 -3 -3	-2 -2 -2	-1 -1 -1	0 0 0	1 I 1	2 2 2	3 3 3	4 4 4	積極的 好的 有利的
鹿紗止痛	<i>南</i> 9										
	消極的 坏的 不宜的	-4 -4 -4	-3 -3 -3	-2 -2 -2	-] -] -[0 0 0	1 1 1	2 2 2	3 3 3	4 4 4	積極的 好的 有利的
隆氏汽水											
	消 極的 坏的 不宜的	-4 -4	-3 -3 -3	-2 -2 -2	-1 -1 -1	0 0 0	1 1 1	2 2 · 2	3 3 3	4 4 4	積極的 好的 有利的

謝謝。

指引

價

這問卷是用來續量個人在不同情況下,所產生的各種情緒和行為。假設以下的每一項問題,也是為查問你的資料而設。請依據你個人的資料,在量度表上選出一個最合適的數字,畫上X符號。多謝合作!

1=極之反對 2=反對 3=稍爲反對 5=稍高 6=贊同 7=極之贊同

在 眾 多 重 要 的 事 項 中 , 我 喜 歡 突 出 自 已 和 表 現 自 已 乃 與 眾 不 同 。

1	2	3	4	5	6	7	
極之反	對					· 「「「」」「」」 「」」	j

 對於初相識的人,即使他們比我年長,稱呼他們的 名字,我覺得比較舒服和有親切感。

1	2	3	4	5	6	7	
極之反主	Ŋ				•	極之費問	

3. 雖然我對大夥兒的意見極不贊同,但我也會避免與 他們爭論。

[ii]

1	2	3	4	5	6	7	
極之反的	时					節之質	•

4. 我對所認識的權貴人物都十分尊重。

2 3 1 4 5 6 7 極之反對 覆之贤阁

5.	我 處 事 的 方 法 向 來 也 是 我 行 我 素 , 從 不 理 會 別 人 的 想 法 。
	1 2 3 4 5 6 7 極之反對 極之贊問
6.	我尊敬那些謙虛的人士。
	1 2 3 4 5 6 7 極之反對 極之發向
7.	我認為自立對我來說是很重要。
	1 2 3 4 5 6 7 極之反對 極之贊同
8.	我會爲了顧及集體的利益而犧牲個人的興趣。
	1 2 3 4 5 6 7 極之反封 極之質同
9.	我 搴 願 直 接 地 說 " 不 " , 也 不 想 冒 被 誤 會 之 險 。
	1 2 3 4 5 6 7 極之反對 極之賢同
10.	有 一 個 靈 活 而 富 想 像 力 的 頭 腦 , 對 我 來 說 是 很 重 要 。
	1 2 3 4 5 6' 7 極之反對 極之贊同
11.	當我要作人生決策時,我一定會參考家人所給我的 提示。
	1 2 3 4 5 6 7 極之反對 極之質同

12.	我 認 爲 個 人 的 命 運 是 會 受 外 界 環 境 及 人 際 間 的 關 係 所 影 響 。
	1 2 3 4 5 6 7 極之変對 極之質同
13.	我喜歡對新相識的人採取直接和坦率的態度。
	1 2 3 4 5 6 7 極之反對 極之間間
14.	我認為與他人合作做事,乃是一件樂事。
	1 2 3 4 5 6 7 極之反對 極之質问
15.	我樂意接受別人對我的稱讀和獎賞。
	1 2 3 4 5 6 7 極之反對 極之賢同
16.	對於 兄 弟 姊 妹 的 失 敗 , 我 認 爲 自 己 應 該 負 責 。
	1 2 3 4 5 6 7 極之反對 極之質詞
17.	我經常覺得與別人建立良好的關係較個人的成就重 要。
	1 2 3 4 5 6 7 医主反射 医之背间
18.	在 課 堂 上 或 在 會 議 中 發 言 ・ 對 我 來 說 不 是 一 件 困 難 的 事 ・
	<u>1 2 3 4 5 6 7</u> 樹之反射 一般之数間

19. $\pounds E \pm |fc\#i*ftj\pounds aft8rjg|g_{\pm}H$, . $2\overline{3}, \overline{-4}, \overline{5}, \overline{-6}, T$

20. iii^jSfAffl* ' ^m-^dt: . *mft&tt* •• ~ 2 3 4 5 6 7~

21. MAfl'^f "ati2 \in I(f'^^ .

" 2 3 4 5 6 7"

22. m%znmmttiiffimwmw • '' 2 r ~4 r '6 r

& *? sfr ftfe fn °

1 2 3 4 5 6 7~ ^{M5→ P7→f} ^{ra} "- •*^{* 1 J} Mi ^ H fs]

²⁴-Sf225?S^e•fc>&-ft*si*«ft&A> & i£ # tf I* £ ft •

25. i i ^ e i l g B - I t l l ^ ^ J l f =

 $\lim_{s \neq A} \sim 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad T$
26.	我很尊重群體的決定。
	1 2 3 4 5 6 7
	穩之反對 極之贊问
27.	我很重視建立自己與眾人間不同的獨特風格。
	1 2 3 4 5 6 7
	極之反對 極之贊同
28.	我很重視人與人間的和諧關係。
	1 2 3 4 5 6 7
	極之反對 一 極之贊問
29.	我在學校和在家裏,言行也一致。
	$\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{5}{5}$ $\frac{6}{7}$
	極之 反對 權之實問
30.	我通常會因順應別人的意願去爲他們做事,而擱置
	了自已想做的事情。
	1 2 3 4 5 6 7

.

極之間同

極之反對

——7E

非常感謝你參加這次的問卷調查。以下各題是為了在做分 析時作為參考之用。所有收集到的資料將會嚴格的保密。 再一次謝謝你參加這份研究做答。謝謝。

性别: 1.女 2.男

年齡:_____

中文水平:

1. 精通 2. 流利 3. 尚可

中文是你的第一語言或母語嗎? 是/否 請問你受過幾年正式的中文教育? _____年 請問你是否還會其他語言? 是/否 如是,請一一列出。

再次表示感謝。

謝謝。

練習:

這是一項簡單的頭腦體操,意圖是讓你在正式開始回答問 題前,稍稍地運動一下腦筋。所以請你提起精神,放鬆心 情開始吧!

在以下每一個漢字部首下,有十個空行。請你利用各個 部首分别寫出十個漢字。例如: "火"字部。以 "火" 為偏旁的字有: 燃, 煉, 熱, 燙, 遶, 煨, 烟, 炒等等 。這項練習共計時五分鐘。請在這五分鐘內, 盡量寫出你 所知道的,以 "木", "女", "水"為偏旁的漢字。

本	女	本
		<u> </u>
		<u></u>
	<u> </u>	
	,,	

Ad Prototype Set A









Bottled Wate

	1	1	1	I					1		
P											
1											



















Ad Prototype Set B

/__--,









Bottled Water

















cross-cultural indep study - ethnic:l=english, 2=chinese 1 08:55 Tuesday, April 20, 1999 General Linear Models Procedure Class Level Information Class Levels Values PRIMINGT 2 12 ETHNIC 2 12

Number of observations in data set = 53

Dependent Variables 0bs Group

INDEPSC RECOGCRI RECOGFIL RECOGTOT SOCIAL NOSOCIAL SOCBKDIF AVGATTC AVGATTF AVGATTT WORDS ENGWORD ADTTL ADTTLFIL ADTTLSOC ADINCOR CATTL CATTLFIL CATTLSOC CATINCO BRATTL BRAFIL BRASOC BRAINCOR BNCOR BNINCOR BCCOR BCINCOR NCCOR NCINCOR 1 53 COMPO COMNEG COMNEU GENDER AGE PROF LANG

2 DEPSC 50

3 47 YRSEDUC

Dependent Variable: RECOGCRI

NOTE: Variables in each group are consistent with respect to the presence or absence of missing values.

> cross-cultural indep study - ethnic:l=english, 2=chinese 08:55 Tuesday, April 20, 1999

2

General Linear Models Procedure

Dependent Variabl	e: INDEPSC				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 82.70229456 3907.82600733 3990.52830189	Mean Square 27.56743152 79.75155117	F Value 0.35	Pr > F 0.7924
	R-Square 0.020725	C.V. 12.38706	Root MSE 8.93037240	IND 72	EPSC Mean .09433962
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	6.74625060 0.68559034 75.27045361	6.74625060 0.68559034 75.27045361	0.08 0.01 0.94	0.7724 0.9265 0.3361
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	5.57861071 1.02271948 75.27045361	5.57861071 1.02271948 75.27045361	0.07 0.01 0.94	0.7925 0.9103 0.3361
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in e vis vs ver w/in c eng vs chín w/in v eng vs chín w/in v	ng 1 hin 1 vis 1 ver 1 cross-cultura	62.23219373 19.52014652 45.94871795 30.00732601 1 indep study - ethnic:1=	62.23219373 19.52014652 45.94871795 30.00732601 english, 2=chinese 08:55 Tues	0.78 0.24 0.58 0.38	0.3814 0.6230 0.4515 0.5424 3 20, 1999

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 299.00221162 203.07326007 502.07547170	Mean Square 99.66740387 4.14435225	Value 24.05	Pr > F 0.0001
	R-Square 0.595532	C.V. 25.87427	Root MSE 2.03576822	RECO 7	GCRI Mean .86792453
Source	DF	Type I SS	Mean Square	F Value	Pr > F

PRIMINGT	1	0.96008708	0.96008708	0.23	0.6324
ETHNIC DRIMINCT*ETHNIC	1	288.99842303	288.99842303	69.73	0.0001
PRIMINGITEINNIC	T	9.04370152	9.04370152	2.18	0.1460
Source	DF	Type III SS	Mean Square	F Value	Pr > 1
PRIMINGT	1	3.54521209	3.54521209	0.86	0.3596
ETHNIC PRIMINGT*ETHNIC	1 1	286.71137523 9.04370152	286.71137523 9.04370152	69.18 2.18	0.0001
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng	1	12 21509972	12 21509972	2 95	0 0923
vis vs ver w/in chin	1	0.61904762	0.61904762	0.15	0.7008
eng vs chin w/in vis	1	94.94871795	94.94871795	22.91	0.0001
eng vs chin w/in ver	1	203.09340659	203.09340659	49.00	0.0001
	cross-cultu	ral indep study - ethnic:	l=english, 2=chinese 08:55 Tue	e sday, April	20, 1999
		General Linear Models Pr	ocedure	1, 1	
Dependent Variable: N	RECOGFIL				
Source	DF	Sum of Squares	Mean Square	F Value	Pr > म
Model	3	80.18586288	26.72862096	9.52	0.0001
Error	49	137.62545788	2.80868281		
corrected Total	52	217.81132075			
R-5	Square	C.V.	Root MSE	RECO	GFIL Mean
0.3	368144	23.13108	1.67591253	7	.24528302
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.86117830	0 86117830	0 31	0 5822
ETHNIC	1	61.82519640	61.82519640	22.01	0.0001
PRIMINGT * ETHNIC	1	17.49948818	17.49948818	6.23	0.0160
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	1.65313513	1.65313513	0.59	0.4466
ETHNIC DRIMINGT*FTHNIC	1	60.41446444	60.41446444	21.51	0.0001
a i i		17.49940010	1/.49948818	6.23	0.0160
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng	1	15.27798128	15.27798128	5.44	0.0238
eng vs chin w/in vis	⊥ 1	4.11080586	4.11080586	1.46	0.2322
eng vs chin w/in ver	1	0.30800800	0.30800800 73 01607652	2.25	0.1404
a a a a a a a a a a a a a a a a a a a	ross-cultur	al indep study - ethnic:1	=englisth. 2=chinese	20.00	0.0001
			08:55 Tues	sday, April	20, 1999
		General Linear Models Pro	ocedure		
Dependent Variable: R	ECOGTOT				
Source Model	DF 3	Sum of Squares	Mean Square	F Value	Pr > F
Error	49	499.81593407	10,20032519	22.UI	0.0001
Corrected Total	52	1173.32075472	10.20032319		
R-S	quare	C.V.	Root MSE	RECOG	JTOT Mean
0.5	74016	21.13247	3 .19379479	15.	11320755
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	3.63984304	3.63984304	0 36	0 5530
THNIC	1	618.16149001	618.16149001	60.60	0.0001
PRIMINGT*ETHNIC	1	51.70348760	51.70348760	5.07	0.0289
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	10.04012981	10.04012981	0.98	0.3260
THNIC	1	610.34828691	610.34828691	59.84	0.0001
'RIMINGI^EIHNIC	Ţ	51.70348760	51.70348760	5.07	0.0289
lontrast	DF	Contrast SS	Mean Square	F Value	Pr > F
'is vs ver w/in eng	1	54.81501832	54.81501832	5.37	0.0247

vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	in 1 is 1 er 1 cross-cultural	7.92032967 150.20604396 519.65893366 indep study - ethnic:1	7.92032967 150.20604396 519.65893366 =english, 2=chinese	0.78 14.73 50.95	0.3825 0.0004 0.0001 6
			08:55 Tues	day, April	. 20, 19 9 9
	Ge	neral Linear Models Pro	ocedure		
Dependent Variable	: SOCIAL				
Source	T	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	163.06456908	54.35485636	15.09	0.0001
Error	49	176.48260073	3.60168573		
Corrected Total	52	339.54716981			
I	R-Square	C.V.	Root MSE	SC	CIAL Mean
	0.480241	24.71351	1.89781077	7	.67924528
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.53434930	0.53434930	0.15	0.7018
ETHNIC	1	145.39067981	145.39067981	40.37	0.0001
PRIMINGT*ETHNIC	1	17.13953997	17.13953997	4.76	0.0340
Source	DF	Type III SS	Mean Square	F Value	₽r > F
PRIMINGT	1	1.76621239	1.76621239	0.49	0.4871
ETHNIC	1	143.22240574	143.22240574	39.77	0.0001
PRIMINGT*ETHNIC	1	17.13953997	17.13953997	4.76	0.0340
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng	9 1	15.27798128	15.27798128	4.24	0.0448
vis vs ver w/in chi	in 1	3.86904762	3.86904762	1.07	0.3051
eng vs chin w/in vi	is 1	30.00091575	30.00091575	8.33	0.0058
eng vs chin w/in ve	er I	132.52930403	132.52930403	36.80	0.0001
	cross-cultural	indep study - echnic:i	08:55 Tues	day, April	20, 1999
	Ger	neral Linear Models Pro	cedure		
Dependent Variable:	NOSOCIAL				
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	174.65989357	58.21996452	13.31	0.0001
Error	49	214.35897436	4.37467295		
Corrected Total	52	389.01886792			
F	R-Square	C.V.	Root MSE	NOSO	CIAL Mean
(0.448975	28.13536	2.09157188	7	.43396226
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	1.38496479	1.38496479	0.32	0.5762
ETHNIC	1	163.96925057	163.96925057	37.48	0.0001

Source Model Error	DF 3 49	Sum of Squares 174.65989357 214.35897436	Mean Square 58.21996452 4.37467295	F Value 13.31	Pr > F 0.0001
Corrected Total	52	389.01886792	Poot MSE	NOSO	CIAI Moon
0	.448975	28.13536	2.09157188	7	.43396226
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	1.38496479	1.38496479	0.32	0.5762
ETHNIC	1	163.96925057	163.96925057	37.48	0.0001
PRIMINGT*ETHNIC	1	9.30567821	9.30567821	2.13	0.1511
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	3.38422806	3.38422806	0.77	0.3834
ETHNIC	1	162.24827640	162.24827640	37.09	0.0001
PRIMINGT*ETHNIC	1	9.30567821	9.30567821	2.13	0.1511
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng	1	12.21509972	12.21509972	2.79	0.1011
vis vs ver w/in chir	n 1	0.71794872	0.71794872	0.16	0.6872
eng vs chin w/in vis	s <u>1</u>	45.94871795	45.94871795	10.50	0.0021
eng vs chin w/in ver	r 1	127.32621083	127.32621083	29.11	0.0001
	cross-cultural	indep study - ethnic:	l=english, 2=chinese		8
			08:55 Tues	day, April	20, 1999

Dependent Variable:	SOCBKDIF				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 1.94410464 281.86721612 283.81132075	Mean Square 0.64803488 5.75239217	F Value 0.11	Pr > F 0.9523

R- 0.	Square 006850	C.V. 977.8151	Root MSE 2.39841451	SOCE	KDIF Mean .24528302
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.19878514 0.55837074 1.18694875	0.19878514 0.55837074 1.18694875	$0.03 \\ 0.10 \\ 0.21$	0.8533 0.7567 0.6517
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.26075108 0.59307737 1.18694875	0.26075108 0.59307737 1.18694875	0.05 0.10 0.21	0.8323 0.7495 0.6517
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in chin eng vs chin w/in vis eng vs chin w/in ver	1 1 1 1 cross-cultural	0.17114367 1.25366300 1.69322344 0.05209605 indep study - ethnic:l=	0.17114367 1.25366300 1.69322344 0.05209605 english, 2=chinese 08:55 Tues	0.03 0.22 0.29 0.01 day, April	0.8638 0.6427 0.5899 0.9246 9 20, 1999

Dependent Variable	· AVGATTC				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 9.00248962 50.66802051 59.67051013	Mean Square 3.00082987 1.03404123	F Value 2.90	Pr > F 0.0441
	R-Square 0.150870	C.V. 93.82029	Root MSE 1.01687818	AVG/ 1	ATTC Mean .08385744
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	1.96178110 4.98207299 2.05863553	1.96178110 4.98207299 2.05863553	1.90 4.82 1.99	0.1747 0.0329 0.1646
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	2.23460275 4.84534088 2.05863553	2.23460275 4.84534088 2.05863553	2.16 4.69 1.99	0.1479 0.0353 0.1646
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in en vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	g l in l is l er l cross-cultural	4.38415060 0.00176649 0.28761645 6.75309207 indep study - ethnic:1	4.38415060 0.00176649 0.28761645 6.75309207 ≠english, 2=chinese 08:55 Tues	4.24 0.00 0.28 6.53 day, April	0.0448 0.9672 0.6003 0.0138 10 20, 1999

General Linear Models Procedure

Dependent Variable: AVGATTF

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 4.61477999 56.50198684 61.11676683	Mean Square 1.53826000 1.15310177	F Value 1.33	Pr > F 0.2741
	R-Square 0.075508	C.V. 141.6132	Root MSE 1.07382576	AVG 0	ATTF Mean 0.75828092
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.00148509 2.61033438 2.00296052	0.00148509 2.61033438 2.00296052	0.00 2.26 1.74	0.9715 0.1389 0.1936
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.01011536	0.01011536	0.01	0.9258

ETHNIC	1	2.51337149	2.51337149	2.18	0.1462
		2.00296052	2.00296052	1.74	0.1936
PRIMINGT*ETHNIC	1	Contrast SS	Mean Square	F Value	Pr
Contrast	DF	.17369936	1.17369936	1.02	0.3180
vis vs ver w/in	eng 1	84630037	0.84630037	0.73	0.3958
vig vg ver w/in	chin 1	01416768	0.01416768	0.01	0.9122
eng vs chin w/in	vis 1	.59912721	4.59912721	3.99	0.0514
eng vs chin w/in	vercrossicultural	indep study - ethnic:l=e	english, 2=chinese		11
- J,			08:55 Tues	day, April	20, 1999

Dependent Variabil	e: AVGATTT				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 6.24972284 31.99042274 38.24014559	Mean Square 2.08324095 0.65286577	F Value 3.19	Pr > F 0.0316
	R-Square 0.163434	C.V. 87.72426	Root MSE 0.80800110	AVG. 0	ATTT Mean .92106918
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.51780466 3.70121557 2.03070262	051780466 370121557 2.03070262	0.79 5.67 3.11	0.3775 0.0212 0.0840
Source	DF	Type III SS	<i>let</i> m Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.63635235 3.58453780 2.03070262	063635235 358453780 203070262	0.97 5.49 3.11	0.3284 0.0232 0.0840
Contrast	DF	Contrast SS	∶ein Square	F Value	Pr > F
vis vs ver w/in er vis vs ver w/in cl eng vs chin w/in v eng vs chin w/in v	ng 1 hin 1 ris 1 ver 1 cross-cultural	2.52366648 0.19268420 0.10736334 5.62455484 indep study - ethnic:1=er	252366648 019268420 010736334 562455484 nglish, 2=chinese 08:55 Tues	3.87 0.30 0.16 8.62 sday, April	0.0550 0.5894 0.6869 0.0051 12 20, 1999

General Linear Models Procedure

Dependent Variable: WORDS

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 25636.21133112 188694.65659341 214330.86792453	Mean Square 8545.40377704 3850.91135905	F Value 2.22	Pr > F 0.0977
R- 0.	Square 119610	C.V. 72.65193	Root MSE 62.05571174	W(85	ORDS Mean .41509434
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	1037.16991883 17588.94444506 7010.09696723	1037.16991883 17588.94444506 7010.09696723	0.27 4.57 1.82	0.6061 0.0376 0.1835
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	1719.88117094 18053.76636732 7010.09696723	1719.88117094 18053.76636732 7010.09696723	0.45 4.69 1.82	0.5071 0.0353 0.1835
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in chin eng vs chin w/in vis eng vs chin w/in ver	1 1 1 cross-cultural	912.02462352 7674.93131868 23289.23901099 1309.80240130 indep study - eth	912.02462352 7674.93131868 23289.23901099 1309.80240130 mic:l=english, 2=chinese	0.24 1.99 6.05 0.34	0.6287 0.1643 0.0175 0.5624 13

english, 2=chinese 08:55 Tuesday, April 20, 1999

Dependent Variable: ENGWORD				
SourceDFModel3Error49Corrected Total52	Sum of Squares 52918.98199599 41806.71611722 94725.69811321	Mean Square 17639.66066533 853.19828811	F Value 20.67	Pr > F 0.0001
R-Square 0.558655	C.V. 78.78405	Root MSE 29.20955816	ENG 37	WORD Mean .07547170
Source DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT 1 ETHNIC 1 PRIMINGT*ETHNIC 1	63.32916734 52383.33463426 472.31819439	63.32916734 52383.33463426 472.31819439	0.07 61.40 0.55	0.7864 0.0001 0.4604
Source DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT 1 ETHNIC 1 PRIMINGT*ETHNIC 1	421.15203125 52149.78043004 472.31819439	421.15203125 52149.78043004 472.31819439	0.49 61.12 0.55	0.4856 0.0001 0.4604
Contrast DF	Contrast SS	Mean Square	F Value	Pr
vis vs ver w/in eng 1 vis vs ver w/in chin 1 eng vs chin w/in vis 1 eng vs chin w/in ver 1 cross-cultura	912 02462352 0.71794872 20905.93772894 31949.71509972 1 indep study - ethnic	912.02462352 0.71794872 20905.93772894 31949.71509972 c:l=english, 2=chinese 08:55_Tupe	1.07 0.00 24.50 37.45	0 3063 0.9770 0.0001 0.0001 14 20, 1999

Dependent Variable: ADTTL

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 6.06038773 424.65659341 430.71698113	Mean Square 2.02012924 8.66646109	F Value 0.23	Pr > F 0.8729
R C	2-Square).014070	C.V. 47.42429	Root MSE 2.94388537	A 6	DTTL Mean 5.20754717
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	3.29247971 0.07275347 2.69515454	3.29247971 0.07275347 2.69515454	0.38 0.01 0.31	0.5405 0.9274 0.5796
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	3.46425251 0.09265131 2.69515454	3.46425251 0.09265131 2.69515454	0.40 0.01 0.31	0.5302 0.9181 0.5796
Contrast	DF	Contrast SS	Mean Square	F Value	Pr
vis vs ver w/in eng vis vs ver w/in chi eng vs chin w/in vi eng vs chin w/in ve	n 1 s 1 r 1 cross-cultural	0.02462352 6.00824176 1.85439560 0.91351241 indep study - ethnic:	0.02462352 6.00824176 1.85439560 0.91351241 l=english, 2=chinese 08:55 Tues	0.00 0.69 0.21 0.11 sday, April	0.9577 0.4091 0.6457 0.7468 15 20, 1999

Dependent	Variable	ADTTLFIL				
Source Model Error Corrected	Total	DF 3 49 52	Sum of Squares 4.79637501 146.41117216 151.20754717	Mean Square 1.59879167 2.98798311	F Value 0.54	Pr > F 0.6604
	H (R-Square 0.031720	C.V. 69.93485	Root MSE 1.72857835	ADTT: 2	LFIL Mean .47169811
Source		DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT		1	0.80441327	0.80441327	0.27	0.6062

ETHNIC	1	0.15928410 3.83267764	0.15928410 3.83267764	0.05 1.28	0.8184 0.2629
PRIMINGT*ETHNIC	1	Type III SS	Mean Square	F Value	Pr > F
Source	DF	1776 111 00		0.05	
		0.76837035	0.76837035	0.26	0.6144
PRIMINGT	1	0.12788697	0.12788697	1 28	0.8370
ETHNIC	1	5.85207704	5.05207704	1.20	0.2029
PRIMINGT*ETHNIC	1	Contrast SS	Mean Square	F Value	Pr > F
Contrast	DF	.10337810	4.10337810	1.37	0.2469
		.5/234432	1,25366300	0.42	0.5202
vis vs ver w/in eng	1	73829874	2.73829874	0.92	0.3431
vis vs ver w/in chi	n 1 cross . cultural	indep study - ethnic:	=english, 2=chinese		16
eng vs chin w/in vis eng vs chin w/in ve	sl r l		08:55 Tues	day, April	20 1999
	Ge	eneral Linear Models Pro	ocedure		
Dependent Variable:	ADTTLSOC				
-				1	D
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.41131039	3 06823279	0.40	0.0982
Error	49	150.34340659	3.00823279		
Corrected Total	52	154./54/1098			
R-	-Square	C.V.	Root MSE	ADTT	LSOC Mean
0	.028505	53.35447	1.75163717	3	.28301887
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.03107026	0.03107026	0.01	0.9203
ETHNIC	1	2.44203257	2.44203257	0.80	0.3767
PRIMINGT*ETHNIC	1	1.93820756	1.93820756	0.63	0.4306
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.08667541	0.08667541	0.03	0.8672
ETHNIC	1	2.53380532	2.53380532	0.83	0.3679
PRIMINGT*ETHNIC	1	1.93820756	1.93820756	0.63	0.4306
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng	1	0.61558812	0.61558812	0.20	0.6562
vis vs ver w/in chir	n 1	1.39285714	1.39285714	0.45	0.5036
eng vs chin w/in vis	s 1	4.35989011	4.35989011	1.42	0.2390
eng vs chin w/in ver	r 1	0 02035002	0.02035002	0.01	0.9354
-		0.02055002			
	cross-cultural	. indep study - ethnic:1	=english, 2=chinese	_	17

Dependent Variable: ADINCOR

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 8.81648697 54.20238095 63.01886792	Mean Square 2.93882899 1.10617104	F Value 2.66	Pr > F 0.0586
	R-Square	C.V.	Root MSE	ADII	NCOR Mean
	0.139902	242.3590	1.05174666	0	.43396226
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	5.73681664	5.73681664	5.19	0.0272
ETHNIC	1	0.58805042	0.58805042	0.53	0.4694
PRIMINGT*ETHNIC	1	2.49161991	2.49161991	2.25	0.1398
Source	DF	Type III SS	Mean Square	F Value	Pr
PRIMINGT	1	5.35307869	5.35307869	4.84	0.0326
ETHNIC	1	0.64008776	0.64008776	0.58	0.4505
PRIMINGT* ETHNIC	1	2.49161991	2.49161991	2.25	0.1398
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in en	ng 1	7.73809524	7.73809524	7.00	0.0110
vis vs ver w/in cl	hin 1	0.26465201	0.26465201	0.24	0.6269
eng vs chin w/in v	vis 1	2.77014652	2.77014652	2.50	0.1200
eng vs chin w/in ve	r 1 cross-cultural	0.30952381 indep study - ethnic:1=	0.30952381 english, 2=chinese 08:55 Tuesd	0.28 lay, April	0.5992 18 20, 1999
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	Ge	neral Linear Models Proc	cedure		
Dependent Variable:	CATTL				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 34.19959914 237.61172161 271.81132075	Mean Square 11.39986638 4.84921881	F Value 2.35	Pr > F 0.0837
R	-Square	C.V.	Root MSE	C.	ATTL Mean
0	.125821	30.39349	2.20209419	7	.24528302
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.14322959 18.09407304 15.96229652	0.14322959 18.09407304 15.96229652	0.03 3.73 3.29	0.8643 0.0592 0.0758
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.28685413 17.37446743 15.96229652	0.28685413 17.37446743 15.96229652	0.06 3.58 3.29	0.8089 0.0643 0.0758
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in chi eng vs chin w/in vi eng vs chin w/in ve	1 n 1 s 1 r 1 cross-cultural	10.48616199 5.86080586 0.01465201 34.04171754 indep study - ethnic:1=	10.48616199 5.86080586 0.01465201 34.04171754 english, 2=chinese 08:55 Tuesd	2.16 1.21 0.00 7.02 ay, April	0.1478 0.2770 0.9564 0.0108 19 20, 1999

Dependent Variable	e: CATTLFIL				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 19.91699495 128.87545788 148.79245283	Mean Square 6.63899832 2.63011139	F Value 2.52	Pr > F 0.0684
	R-Square 0.133858	C.V. 51.46909	Root MSE 1.62176182	CATT 3	LFIL Mean .15094340
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.27963232 14.91851753 4.71884510	0.27963232 14.91851753 4.71884510	0.11 5.67 1.79	0.7458 0.0212 0.1866
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.49269059 14.55915585 4.71884510	0.49269059 14.55915585 4.71884510	0.19 5.54 1.79	0.6670 0.0227 0.1866
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in er vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	ng 1 nin 1 vis 1 ver 1 cross-cultural	4.21978022 1.05860806 1.32234432 18.31501832 indep study - ethnic:	.21978022 05860806 32234432 31501832 =english, 2=chinese 08:55 Tue	1.60 0.40 0.50 6.96 sday, April	0.2113 0.5288 0.4816 0.0111 20 20, 1999

Dependent Vari able	CATTLSOC				
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	5.31876771	1.77292257	1.35	0.2678
Error	49	64.15293040	1.30924348		
Corrected Total	52	69.47169811			

R- 0	-Square .076560	C.V. 29.87377	Root MSE 1.14422178	CATT 3	LSOC Mean .83018868
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.02582917 0.19835060 5.09458794	0.02582917 0.19835060 5.09458794	0.02 0.15 3.89	0.8889 0.6988 0.0542
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.01905924 0.15803205 5.09458794	0.01905924 0.15803205 5.09458794	0.01 0.12 3.89	0.9045 0.7298 0.0542
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in chin eng vs chin w/in vis eng vs chin w/in ver	1 1 5 1 cross-cultural	2.93040293 2.19871795 1.69322344 3.59971510 indep study - ethnic:	2.93040293 2.19871795 1.69322344 3.59971510 L=english, 2=chinese 08:55 Tues	2.24 1.68 1.29 2.75 sday, April	0.1410 0.2011 0.2610 0.1037 21 20, 1999

Dependent Variable	: CATINCO				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 0.28815053 16.01373626 16.30188679	Mean Square 0.09605018 0.32681094	F Value 0.29	Pr > F 0.8296
	R-Square 0.017676	C.V. 216.4194	Root MSE 0.57167381	CAT 0	INCO Mean .26415094
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.09675859 0.00292708 0.18846486	0.09675859 0.00292708 0.18846486	0.30 0.01 0.58	0.5888 0.9250 0.4513
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.09265131 0.00201687 0.18846486	0.09265131 0.00201687 0.18846486	$0.28 \\ 0.01 \\ 0.58$	0.5968 0.9377 0.4513
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in er vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	ng l lin l ris l rer l cross-cultural	0.27859178 0.00824176 0.07417582 0.11721612 indep study - ethnic:	0.27859178 0.00824176 0.07417582 0.11721612 l=english, 2=chinese 08:55 Tues	0.85 0.03 0.23 0.36 sday, April	0.3604 0.8745 0.6359 0.5520 22 20, 1999

General Linear Models Procedure

Dependent Variable: BRATTL

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 89.41450688 407.79304029 497.20754717	Mean Square 29.80483563 8.32230694	F Value 3.58	Pr > F 0.0202
	R-Square	C.V.	Root MSE	BRJ	ATTL Mean
	0.179833	114.1019	2.88484089	2	.52830189
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	7.15626512	7.15626512	0.86	0.3583
ETHNIC	1	34.33419099	34.33419099	4.13	0.0477
PRIMINGT*ETHNIC	1	47.92405077	47.92405077	5.76	0.0203
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	8.16574262	8.16574262	0.98	0.3268
ETHNIC	1	32.62495712	32.62495712	3.92	0.0533

PRIMINGT'ETHNIC	1	47.92405077	47.92405077	5.76	0.0203
Contrast	DF	Contrast SS	Mean Square	F Vallue	Pr > F
vis vs ver w/in eng vis vs ver w/in chir eng vs chin w/in vis eng vs chin w/in ver	1 1 5 1 cross-cultural	48.86039886 8.09157509 0.71794872 31.54029304 indep study - ethnic:1=	48.86039886 8.09157509 0.71794872 81.54029304 english, 2=chinese 08:55 Tuese	5.87 0.97 0.09 9.80 day, April	0.0191 0.3290 0.7702 0.0029 23 20, 1999

Dependent Variable: B	RAFIL				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 10.85997650 90.61172161 101.47169811	Mean Square 3.61999217 1.84921881	F Value 1.96	Pr > F 0.1327
R-S 0.1	quare 07025	C.V. 163.8013	Root MSE 1.35985985	BR. 0	AFIL Mean .83018868
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.18964683 4.46202539 ' 6.20830428	0.18964683 4.46202539 6.20830428	0.10 2.41 3.36	0.7501 0.1268 0.0730
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.25232673 4.24024213 6.20830428	0.25232673 4.24024213 6.20830428	0.14 2.29 3.36	0.7134 0.1364 0.0730
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in chin eng vs chin w/in vis eng vs chin w/in ver c	1 1 1 ross-cultural	4.57875458 1.93772894 0.09157509 10.57875458 indep study - ethnic:	4.57875458 1.93772894 0.09157509 10.57875458 1=english, 2=chinese 08:55 Tues	2.48 1.05 0.05 5.72 day, April	0.1220 0.3110 0.8248 0.0206 24 20, 1999

General Linear Models Procedure

Dependent Variable:	BRASOC				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 18.90787200 90.07326007 108.98113208	Mean Square 6.30262400 1.83822980	F Value 3.43	Pr > F 0.0241
R- 0.	Square 173497	C.V. 138.1887	Root MSE 1.35581333	BR. 0	ASOC Mean .98113208
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	5.46688706 0.07488377 13.36610117	5.46688706 0.07488377 13.36610117	2.97 0.04 7.27	0.0909 0.8409 0.0096
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	5.16238947 0.03852240 13.36610117	5.16238947 0.03852240 13.36610117	2.81 0.02 7.27	0.1001 0.8855 0.0096
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in chin eng vs chin w/in vis eng vs chin w/in ver	1 1 1 cross-cultural	17.95054945 0.93772894 5.86080586 7.58017908 indep study - ethnic:1=	17.95054945 0.93772894 5.86080586 7.58017908 englisth, 2=chinese 08:55 Tues	9.77 0.51 3.19 4.12 day, April	0.0030 0.4785 0.0804 0.0477 25 20, 1999

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 12.67596240 76.07875458 88.75471698	Mean Square 4.22532080 1.55262764	F Value 2.72	Pr > F 0.0544
R- 0	-Square .142820	C.V. 173.7905	Root MSE 1.24604480	BRAII 0	NCOR Mean .71698113
Source	DF	Type I SS	Mean Square	F Value	Pr > F
DRIMINGT	1	0.00970274	0.00970274	0.01	0.9373
	-	12.06547173	12.06547173	7.77	0.0075
ETHNIC	T	0.60078793	0.60078793	0.39	0.5368
PRIMINGT*ETHNIC	1	Type III SS	Mean Square	F Value	Pr > F
Source	DF	0 00691655	0.00691655	0.00	0.9471
	-	11 94649359	11.94649359	7.69	0.0078
PRIMINGT	T	0 60078793	0.60078793	0.39	0.5368
ETHNIC	1	0.00070795			
PRIMINGT*ETHNIC	1	Contrast SS	Mean Square	F Value	Pr > F
Contrast	DF				
vis vs ver w/in eng	1	0.37627188	0.37627188	0.24	0.6247
vis vs ver w/in chi	1	0.23443223	0.23443223	0.15	0.6993
eng vg chin w/in vi	1	3.52014652	3.52014652	2.27	0.1386
eng vs chin w/in ve	r 1	9.146.11315	9.14611315	5.89	0.0189
eng vo enin w/ill ve	cross-cultural	indep study - ethnic:1	english, 2=chinese. 08:55 Tues	sday, April	26 20, 1999

Dependent Variabl	e: BNCOR				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 39.07370931 241.37912088 280.45283019	Mean Square 13.02456977 4.92610451	F Value 2.64	Pr > F 0.0595
	R-Square 0.139324	C.V. 161.1405	Root MSE 2.21948294		BNCOR Mean 1.37735849
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	4.60667634 6.48987417 27.97715879	4.60667634 6.48987417 27.97715879	0.94 1.32 5.68	0.3383 0.2566 0.0211
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	4.73330899 5.92968361 27.97715879	4.73330899 5.92968361 27.97715879	0.96 1.20 5.68	0.3318 0.2779 0.0211
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in e vis vs ver w/in c eng vs chin w/in eng vs chin w/in	eng 1 chin 1 vis 1 ver 1 cross-cultural	28.46479446 4.74725275 3 98901099 30.47802198 indep study - ethnic:1=0	28.46479446 4.74725275 3.98901099 30.47802198 english, 2=chinese 08:55 Tues	5.78 0.96 0.81 6.19 sday, Apr:	0201 3311 3726 0163 27 11 20, 1999

Dependent Variab	le: BNINCOR				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 14.65180731 60.21611722 74.86792453	Mean Square 4.88393577 1.22890035	F Value 3.97	Pr > F 0.0130
	R-Square 0.195702	C.V. 189.5276	Root MSE 1.10855778	BNII 0	NCOR Mean .58490566
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC		1.73402139 12.67209908	1.73402139 12.67209908	1.41 10.31	0.2406 0.0023

PRIMINGT*ETHNIC	1	0.24568684	0.24568684	0.20	0.6568
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC	1	1.21245421 12.74115512 0.24568684	1.21245421 12.74115512 0.24568684	0.99 10.37 0.20	0.3255 0.0023 0.6568
PRIMINGT*ETHNIC	1	Contrast SS	Mean Square	F Value	Pr > F
Contrast	DF	1.30240130	1.30240130 0 17948718	1.06	0.3083
vis vs ver w/in e	eng 1 Thin 1	0.17948718 8.09157509 4.82621083	8.09157509 4.82621083	6.58 3.93	.0134
eng vs chin w/in eng vs chin w/in	viscross ¹ cultural ver 1	indep study - ethnic:l=en	glish, 2=chinese 08:55 Tues	day, April	28 20, 1999

Dependent Variable: BCCOR

Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 37.35081899 492.12087912 529.47169811	Mean Square 12.45027300 10.04328325	F Value 1.24	Pr > F 0.3054
	R-Square 0.070544	C.V. 65.61056	Root MSE 3.16911395	B 4	CCOR Mean .83018868
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC	1 1	0.97027361 23.96970245 12.41084293	0.97027361 23.96970245 12.41084293	0.10 2.39 1.24	0.7573 0.1288 0.2717
PRIMINGT*ETHNIC	1	Type III SS	Mean Square	F Value	Pr > F
Source PRIMINGT	DF 1	1.41041134 23.23518475 12.41084293	1.41041134 23.23518475 12.41084293	0.14 2.31 1.24	0.7095 0.1347 0.2717
ETHNIC PRIMINGT*ETHNIC	1 1	Contrast SS	Mean Square	F Value	Pr > F
Contrast vis vs ver w/in en vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	DF g l in l is l er l cross-cultural	11.33414733 2.67032967 0.82417582 35.55636956 indep study - ethnic:	11.33414733 2.67032967 0.82417582 35.55636956 l=english, 2=chmese	1.13 0.27 0.08 3.54	0.2933 0 6084 0 7757 0 0658 29
			08:55 Tues	day, April	20, 1999

Dependent Variable	: BCINCOR				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 11.65351787 65.55402930 77.20754717	Mean Square 3.88450596 1.33783733	F Value 2.90	Pr > F 0.0440
	R-Square 0.150938	C.V. 218.9372	Root MSE 1.15664918	BCII 0	NCOR Mean .52830189
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	6.47962694 1.34121328 3.83267764	6.47962694 1.34121328 3.83267764	4.84 1.00 2.86	0.0325 0.3216 0.0969
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	5.92158572 1.43820203 3.83267764	5.92158572 1.43820203 3.83267764	4.43 1.08 2.86	0.0405 0.3049 0.0969
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in er vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	ng 1 hin 1 vis 1 ver 1	9.84940985 0.11080586 4.88003663 0.29385429	9.84940985 0.11080586 4.88003663 0.29385429	7.36 0.08 3.65 0.22	0.0092 0.7747 0.0620 0.6414

cross d	cultural	indep	study	ethnic:l=english,	2=chinese	30
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08:55 Tuesday, April 20, 1999

General Linear Models Procedure

Dependent Variabl	e: NCCOR				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 42.53305342 362.93864469 405.47169811	Mean Square 14.17768447 7.40691112	F Value 1.91	Pr > F 0.1396
	R-Square 0.104898	C.V. 148.7040	Root MSE 2.72156409	N 1	CCOR Mean .83018868
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	5.56429071 3.79044582 33.17831690	5.56429071 3.79044582 33.17831690	0.75 0.51 4.48	0.3903 0.4778 0.0394
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	5.49251630 3.32937430 33.17831690	5.49251630 3.32937430 33.17831690	$0.74 \\ 0.45 \\ 4.48$	0.3934 0.5057 0.0394
Contrast	DF	Contrast S3	Mean Square	Value	> F
vis vs ver w/in e vis vs ver w/in c eng vs chin w/in eng vs chin w/in	ng 1 hin 1 vis 1 ver 1 cross-cultura	33.54415954 5.71520147 7.58333333 29.38542939 l indep study - ethnic:1	33.54415954 5.71520147 7.58333333 29.38542939 =english, 2=chinese 08:55 Tues	4.53 0.77 1.02 3.97 sday, April	0.0384 0.3840 0.3166 0.0520 31 20, 1999

General Linear Models Procedure

Dependent Variable	: NCINCOR				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 8.71495957 65.96428571 74.67924528	Mean Square 2.90498652 1.34620991	F Value 2.16	Pr > F 0.1049
	R-Square 0.116699	C.V. 192.1685	Root MSE 1.16026286	NCII 0	NCOR Mean .60377358
Source	DF	Type I SS	Mean Square	F Value	Pr
PRIMINGT ETHNIC PRIMINGT* ETHNIC	1 1 1	0.12796323 8.54912409 0.03787225	0.12796323 8.54912409 0.03787225	0.10 6.35 0.03	0.7592 0.0150 0.8675
Source	DF	Type III SS	Mean Square	F Value	Pr
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.03787225 8.52125593 0.03787225	0.03787225 8.52125593 0.03787225	0.03 6.33 0.03	0.8675 0.0152 0.8675
Contrast	DF	Contrast SS	Mean Square	F Value	Pr
vis vs ver w/in er vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	ng 1 nin 1 ris 1 rer 1 cross-cultural	0.00000000 0.07417582 3.63461538 4.95238095 indep study - ethnic:1:	0.00000000 0.07417582 3.63461538 4.95238095 eenglish, 2=chinese	0.00 0.06 2.70 3.68	1.0000 0.8154 0.1068 0.0609 32
			vs:ss hues	uay, April	4U, 1999

Dependent	Variable	COMPO				
Source Model Error Corrected	Total	DF 3 49 52	Sum of Squares 1.61847743 28.26831502 29.88679245	:ean Square 0.53949248 0.57690439	F Value 0.94	Pr > F 0.4309
	H (R-Square 0.054154	C.V. 223.6430	Root MSE 0.75954222		COMPO Mean 0.33962264

Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC	1 1	0.75858732 0.85025951 0.00963060	0.75858732 0.85025951 0.00963060	1.31 1.47 0.02	0.2571 0.2306 0.8977
PRIMINGT*ETHNIC	1	Type III SS	Mean Square	F Value	Pr > F
Source	DF	0.84605701	0.84605701	1.47	0.2317
PRIMINGT	1	0.84605701	0.84605701	1.47	0.8977
ETHNIC	1	0.00903000		0.02	
PRIMINGT*ETHNIC	1	Contrast SS	Mean Square	F Value	Pr > F
Contrast	DF			0.00	0 2420
vis vs ver w/in eng	1	0.52930403	0.52930403	0.92	0.3428
vic vc ver w/in chin	1	0.33058608	0.33058608	0.57	0.4527
vis vs vei w/in chin	1	0 33058608	0,33058608	0.57	0.4527
eng vs chin w/m vis	1	0 52930403	0,52930403	0.92	0.3428
eng vs chin W/in Ver		indep study - ethnicile	anglish, 2=chinese		33
C	ross-cultural	indep study - echnic.i-	08:55 Tue	sday April	20, 1999

Dependent Variable: COMNEG				
SourceDFModel3Error49Corrected Total52	Sum of Squares 3.11833921 102.01373626 105.13207547	Mean Square 1.03944640 2.08191298	F Value 0.50	Pr > F 0.6845
R-Square 0.029661	C.V. 318.6368	Root MSE 1.44288357	COI 0	MNEG Mean .45283019
Source DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT 1 ETHNIC 1	0.11355695 3.00276539 0.00201687	0.11355695 3.00276539 0.00201687	0.05 1.44 0.00	0.8163 0.2355 0.9753
PRIMINGT*ETHNIC 1	Type III SS	Mean Square	F Value	Pr > F
Source DF	0.18846486	0.18846486	0.09	0.7648
PRIMINGT 1	2.99813253 0.00201687	0.00201687	0.00	0.2359
PRIMINGT* ETHNIC 1	Contrast SS	Mean Square	F Value	Pr > F
Contrast DF	0.11721612 0.07417582	0.11721612 0.07417582	0.06 0.04	0.8134 0.8511 0.4174
vis vs ver w/in eng 1 vis vs ver w/in chin _{cross} l _{cultural} eng vs chin w/in vis 1 eng vs chin w/in ver 1	1.39285714 1.61192511 indep study - ethnic::l=eng	1.59285714 1.61192511 glish, 2=chinese 08:55 Tues	0.87 0.77 sday, April	0.3832 34 20, 1999

Dependent Variabl	e: COMNEU				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 4.42250674 47.46428571 51.88679245	Mean Square 1.47416891 0.96865889	F Value 1.52	Pr > F 0.2205
	R-Square 0.085234	C.V. 289.7936	Root MSE 0.98420470	CO 0	MNEU Mean .33962264
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.35545342 4.02918107 0.03787225	0.35545342 4.02918107 0.03787225	0.37 4.16 0.04	0.5475 0.0468 0.8441
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.50917134 4.04391454 0.03787225	0.50917134 4.04391454 0.03787225	0.53 4.17 0.04	0.4719 0.0464 0.8441

Contrast	DF	Contrast SS	Mean Square	F Value	Pr
vis vs ver w/in eng vis vs ver w/in chin eng vs chin w/in vis eng vs chin w/in ver	1 1 1 1	13756614 40384615 38186813 68518519	0.13756614 0.40384615 2.38186813 1.68518519	0.14 0.42 2.46 1.74	0 7079 0 5215 0 1233 0 .1933 35
erc	ss-cultural i	ndep study - ethnic	08:55 Tues	day, April	20, 1999
	Gene	ral Linear Models P	rocedure		
Dependent Variable: GEN	IDER				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 1.61868477 11.40018315 13.01886792	Mean Square 0.53956159 0.23265680	F Value 2.32	Pr > F 0.0869
R-Squ 0.124	lare 1334	C.V. 33.63722	Root MSE 0.48234510	GEN 1.	DER Mean 43396226
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	1.04308445	1.04308445	4.48	0.0393
ETHNIC PRIMINGT*ETHNIC	1 1	0.25065846	0.25065846	1.08	0.3044
Source		Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.95329117	0.95329117	4.10	0.0484 0.2346
ETHNIC PRIMINGT*ETHNIC	1 1	0.25065846	0.25065846	1.08	0.3044
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in chin eng vs chin w/in vis eng vs chin w/in ver cro	1 1 1 1 oss-cultural i	1.11436711 0.11080586 0.57234432 0.00325600 ndep study - ethnic	1.11436711 0.11080586 0.57234432 0.00325600 :l=english, 2=chinese	4.79 0.48 2.46 0.01	0.0334 0.4934 0.1232 0.9063 36
			08:55 Tues	day, April	20 1999
	Gene	ral Linear Models P	rocedure		
Dependent Variable: AG	Ξ		Maara Grouped	E Value	Dr > F
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 2.70022116 64.50732601 67.20754717	0.90007372 1.31647604	0.68	0.5663
R-Sq 0.04	lare 0177	C.V. 5.604703	Root MSE 1.14737790	20.	AGE Mean 47169811
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.00526797	0.00526797	0.00	0.9498 0.7603
ETHNIC PRIMINGT*ETHNIC	1 1	2.57100805	2.57100805	1.95	0.1686
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.01597999	0.01597999	0.01	0.9127 0.7381
ETHNIC PRIMINGT*ETHNIC	1 1	2.57100805	2.57100805	1.95	0.1686
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng	1	.11436711	1.11436711	0.85	0.3621
vis vs ver w/in chin eng vs chin w/in vis	1 1	.46520147 .93772894	93772894	1.47	2309
eng vs chin w/in ver	1 oss-cultural i	75722426 ndep study - ethnic	,75722426 c:l=english , 2=chinese 08:55 Tues	U.58 sday, April	.4518 37 20, 1999

Model Error Corrected Total	3 49 52	7.38150529 19.63736264 27.01886792	2.46050176 0.40076250	6.14	0.0013
F (R-Square 0.273198	C.V. 44.14747	Root MSE 0.63305806	1	PROF Mean .43396226
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.81373972 5.51112734 1.05663823	0.81373972 5.51112734 1.05663823	2.03 13.75 2.64	0.1605 0.0005 0.1108
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.62159291 5.40709140 1.05663823	0.62159291 5.40709140 1.05663823	1.55 13.49 2.64	0.2189 0.0006 0.1108
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in eng vis vs ver w/in ch eng vs chin w/in vi eng vs chin w/in ve	g l in l is l er l cross-cultural	.02930403 .61538462 .82417582 .74358974 indep study - ethnic:1=6	0.02930403 1.61538462 0.82417582 5.74358974 english, 2=chinese	0.07 4.03 2.06 14.33	7880 0502 1579 0004 38 20, 1999
			08:55 Tues	sday, April	•••; ±>>>>

Dependent Variable	: LANG				
Source Model Error Corrected Total	DF 3 49 52	Sum of Squares 0.52871657 6.26373626 6.79245283	Mean Square 0.17623886 0.12783135	F Value 1.38	Pr > F 0.2603
	R-Square 0.077839	C.V. 42.10969	Root MSE 0.35753511		LANG Mean 0.84905660
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.00043004 0.27929081 0.24899572	0.00043004 0.27929081 0.24899572	0.00 2.18 1.95	0.9540 0.1458 0.1691
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	0.00039839 0.29042860 0.24899572	0.00039839 0.29042860 0.24899572	0.00 2.27 1.95	0.9557 0.1382 0.1691
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in en vis vs ver w/in ch eng vs chin w/in v eng vs chin w/in v	ng l lin l ris l rer l	0.11721612 0.13186813 0.52747253 0.00081400	0.11721612 0.13186813 0.52747253 0.00081400	0.92 1.03 4.13 0.01	0.3430 0.3148 0.0477 0.9367

cross-cultural indep study - ethnic:l=english, 2=chinese 39 08:55 Tuesday, April 20, 1999

Level of		-INDEI	SC-	RECOG	CRI	RECOGFIL		
PRIMINGI			SD	Meall	50	nean	50	
1 2	26 27	71.7307692 72.4444444	8.77978447 8.89396223	7.73076923 8.00000000	2.73580251 3.47518677	7.11538462 7.37037037	1.60815231 2.42023756	
Level of PECOGTOT		₽TOT	-SOC	IAL-	NOSOC	CIAL		
PRIMINGT		Mean	SD	Mean	SD	Mean	SD	
1 2	26 27	14.8461538 15.3703704	3.74905116 5.61007437	7.57692308 7.7777778	2.17574037 2.91327642	7.26923077 7.59259259	2.34192557 3.10408241	
Level of	SOCBEDIE			-AVGA1	TTC-	-AVGA1	TTF-	
PRIMINGT		Mean	SD	Mean	SD	Mean	SD	

	26 27	0.30769231 0.18518519	2.52617071 2.18450905	1.27991453 0.89506173	1.09200018 1.03584078	0.76367521 0.75308642	1.28844267 0.86853477
Level of		AVGA	PTT	-WORI	DS-	-ENGW	ORD-
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD
	26 27	1.02179487 0.82407407	0.97812737 0.72864501	89.9230769 81.0740741	66.4728053 62.8881338	35.9615385 38.1481481	37.4192258 47.9011030
Level of	Level of -ADTTL-		ADTTI	LFIL	ADTTI	LSOC	
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD
	26 27	6.46153846 5.96296296	2.84577960 2.94149990	2.34615385 2.59259259	1.57333551 1.84514455	3.30769231 3.25925926	1.91351469 1.55890969
Level of A			COR	-CAT	-CATTL-		LFIL
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD
	26 27	0.76923077 0.11111111	1.45072926 0.42365927	7.19230769 7.29629630	2.20942039 2.39895514	3.07692308 3.22222222	1.59807577 1.80455265
Level of		CATTI	LSOC	-CATII	NCO-	-BRA	TTL-
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD
	26 27	3.80769231 3.85185185	1.26551905 1.06351029	0.30769231 0.22222222	0.61768800 0.50636968	2.15384615 2.88888889	2.60295690 3.51188458
Level of		-BRAI	FIL-	-BRAS	SOC-	BRAIN	NCOR
PRIMINGT	Ν		SD		SD	Mean	SD
	26 27	0.76923077 0.888888889 cross-cu	1.27460401 1.52752523 ultural indep	0.65384615 1.29629630 study - ethnic	1.19807538 1.61280489 :l=english,	0.73076923 0.70370370 2=chinese	1.28242559 1.35348027 40
					L L	lo.55 luesuay, A	PTTT 20, 1999

Level of		-BNC	OR-	BNIN	COR	BCCOR		
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD	
	26 27	1.07692308 1.66666667	1.49460569 2.90887237	0.76923077 0.40740741	1.42288980 0.93064325	4.69230769 4.96296296	3.08245656 3.34527774	
Level of		BCIN	COR	NCC0)R	-NCIN	COR-	
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD	
	26 27	0.88461538 0.18518519	1.60815231 0.48334070	1.50000000 2.14814815	2.54950976 3.02176341	0.65384615 0.55555556	1.29436649 1.12089708	
Level of		-C0M	PO-	COMI	NEG	COM	NEU	
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD	
	26 27	0.46153846 0.22222222	0.81145643 0.69798244	0.50000000 0.40740741	1.79443584 0.97109214	0.42307692 0.25925926	1.06482212 0.94431874	
Level of	evel of GENDER			-AG	Ξ-	-PROF-		
PRIMINGT	Ν	Mean	SD	Mean	SD	Mean	SD	
	26 27	1.57692308 1.29629630	0.50383147 0.46532163	20.4615385 20.4814815	1.20766781 1.08735283	1.30769231 1.55555556	0.61768800 0.80064077	
		1	Level of	-LA	NG-			
		:	PRIMINGT N	Mean	SD			
			26 27	0.84615385 0.85185185	0.36794648 0.36201399			
Level of		-INDE	PSC-	RECO	GCRI	RECO	GFIL	
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	71.9629630 72.2307692	8.88595037 8.80139849	$10.1481481 \\ 5.5000000$	1.97491390 2.14009346	$8.29629630 \\ 6.15384615$	$2.05341769 \\ 1.37672968$	
Level of		RECO	GTOT	-SOC	IAL-	NOSO	CIAL	
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
	27 26	$\frac{18.4444444}{11.6538462}$	$3.63035634 \\ 2.96570137$	9.29629630 6.00000000	2.10886070 1.78885438	9.14814815 5.65384615	2.33211201 1.85347906	
Level of		SOCBI	KDIF	-AVGA	TTC-	AVGA	PTF	
		Mean	SD	Mean	SD	Mean	SD	

27	14814815 34615385	2.5676 2.1155	50445 51049	0.79	423868 461538	0.90080354 1.16544095		0.5411522 0.9837606	6 0. 8 1.	9547 1801	6918 8300
20	cross-cu	ultural	indep	study -	ethnic	:l=english,	2=chi	nese			41
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General	Linear	Models	Procedure
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evel of		-avga	րդդ_	-WORI	DS-	ENGWORD		
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	0.66769547 1.18418803	0.67886286 0.95340545	67.814815 103.692308	39.5785850 79.1336941	67.8148148 5.1538462	39.5785850 8.9249865	
Level of		– אדידים –	РТ. <u>–</u>	ADTTI	LFIL	ADTTLSOC		
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	6.18518519 6.23076923	2.98762881 2.81861941	2.51851852 2.42307692	1.60217089 1.83680324	3.07407407 3.50000000	1.89991753 1.52970585	
Townl of	-ADINCOR-			- <i>C</i> Δ T	тт. <u>–</u>	CATTI	LFIL	
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	0.55555556 0.30769231	1.33972825 0.78837711	7.81481481 6.65384615	2.11290972 2.34848560	3.66666667 2.61538462	1.44115338 1.79057361	
Torral of		<u> </u>	800	-CATTI	NCO-	BRATTI.		
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	3.88888889 3.76923077	1.18754217 1.14219761	0.25925926 0.26923077	0.52569314 0.60383390	3.29629630 1.73076923	3.52807220 2.37583993	
Level of		-BRA	FTT	-BRAS	SOC-	BRAII	NCOR	
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	1.11111111 0.53846154	1.55250005 1.17407902	1.00000000 0.96153846	1.68705478 1.18256566	1.18518519 0.23076923	1.64169324 0.51440780	
Level of		-BNC)R	-BNIN	COR-	BCCOR		
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	1.70370370 1.03846154	2.93276995 1.42774701	1.07407407 0.07692308	1.51723245 0.27174649	5.48148148 4.15384615	3.34400003 2.93519754	
Level of				NCC	DR	NCIN	COR	
ETHNIC		-BCIN	SD	Mean	SD	Mean	SD	
1 2	27 26	0.70370370 0.34615385	1.56438277 0.68948141	2.07407407 1.57692308	3.07503503 2.50076911	1.00000000 0.19230769	1.51910905 0.49146563	
Level of		-COM	D0_	-COM	NEG-	COM	NEU	
ETHNIC		Mean	SD	Mean	SD	Mean	SD	
1 2	27 26	0.22222222 0.46153846 cross-ci	0.50636968 0.94787211 ultural indep	0.22222222 0.69230769 study - ethnic	0.50636968 1.95487556 :l=english, 2=	0.07407407 0.61538462 chinese	0.26688026 1.35873244 42	
					0.3	3:55 Tuesday, A	pril 20, 1999	

General	Linear	Models	Procedure
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Level of		-GEI	IDER		A	JE		-PROF-		
ETHNIC	Ν	Mean	SD		Mean	SD	Mean	n SD		
	27 26	1.51851852 1.34615385	0.50917 0.48516	7508 5452	20.5185185 20.4230769	0.752961 1.447012	86 1.111 84 1.769	11111 0.4236592 23077 0.8152394	27 16	
			Level of ETHNIC	N	-Li Mean	ANG- SD				
				27 26	0.77777778 0.92307692	0.4236 0.2717	5927 4649			
Level o	f	Level of		-INDEPSC-			-RE	COGCRI-		
PRIMING	T	ETHNIC	Me	ean	SD		Mean	SD		
		14 12 13 14	4 70.5 2 73.5 3 73.5 4 71.4	500000 L66666 538461 128571	0 8.102' 7 9.665 5 9.734' 4 8.271'	70610 52168 94894 49215	9.5000000 5.6666667 10.8461538 5.3571429	1.78670302 2.14617348 1.99357944 2.20513885		
Level o	f	Level of		-	-RECOGFIL-		-RE	-RECOGTOT-		
PRIMING	- T	ETHNIC	Me	ean	SD		Mean	SD		

		14 12 13 14	7.57142857 6.58333333 9.07692308 5.78571429	1.74154157 1.31137217 2.13937446 1.36880472	17.0714286 12.2500000 19.9230769 11.1428571	3.09998228 2.63283463 3.68468765 3.23103086
Level of	Level of		-SOCTAL	_	-NOSOCIA	L-
PRIMINGT	ETHNIC		Mean	SD	Mean	SD
1 1 2 2	1 2 1 2	14 12 13 14	8.5714286 6.4166667 10.0769231 5.6428571	2.10180456 1.67648622 1.89127552 1.86494557	8.50000000 5.83333333 9.84615385 5.50000000	1.95133091 1.94624736 2.57701875 1.82924953
Level of PRIMINGT	Level of ETHNIC		-SOCBKDII Mean	F- SD	-AVGATTC Mean	SD
1 1 2 2	1 2 1 2	14 12 13 14	0.07142857 0.58333333 0.23076923 0.14285714	2.61546542 2.50302847 2.61896437 1.79130991	1.18253968 1.39351852 0.37606838 1.37698413	0.84012293 1.36009720 0.79256896 1.02304375
Level of PRIMINGT	Level of ETHNIC	N	-AVGATTF Mean	- SD	-AVGATTI Mean	SD
	1 2 cross	14 12 s-cultur	0.74206349 0.78888889 cal indep study	1.09769835 1.53219105 ethnic:l=english,	0.96230159 1.09120370 , 2=chinese 08:55 Tuesday,	0.69016692 1.26558180 43 April 20, 1999

Level of	Level of		-AVGATTF-		-AVGATTT-			
PRIMINGT	ETHNIC		Mean	SD	Mean	SD		
2 2	1 2	13 14	0.32478632 1.15079365	0.75626538 0.79182329	0.35042735 1.26388889	0.52171696 0.61476665		
Level of	Level of		-WORDS-		-ENGWORD)—		
PRIMINGT	ETHNIC		Mean	SD	Mean	SD		
1	1	14	62.214286	32.4065012	62.2142857	-32.4065012		
1	2	12	122.250000	81.7558727	5.3333333	6.3722885		
2	1	13	73.846154	46.6937650	73.8461538	46.6937650		
2	2	14	87.785714	76.1346768	5.0000000	10.8981297		
Level of	Level of		-ADTTL-		-ADTTLFI	L-		
PRIMINGT	ETHNIC		Mean	SD	Mean	SD		
1	1	14	6.21428571	2.39160620	2.14285714	1.16732059		
1	2	12	6.75000000	3.38781238	2.58333333	1.97522534		
2	1	13	6.15384615	3.62505526	2.92307692	1.93483584		
2	2	14	5.78571429	2.25929095	2.28571429	1.77281052		
I ovol of	Level of			r_	-ADINCOR	2-		
PRIMINGT	ETHNIC		Mean	SD	Mean	SD		
1	1	14	2 92857143	2.01777813	1.07142857	1.73046395		
1	2	12	3,75000000	1.76454990	0.41666667	0.99620492		
2	1	13	3,23076923	1.83275049	0.0000000	0.0000000		
2	2	14	3.28571429	1.32598709	0.21428571	0.57893422		
Torral of	I ovol of				-CATTLET	T		
DRIMINGT	EVEL OL		-CAIIL-	SD	Mean	SD		
FRIMINGI	EIIMIC		Meall	50	neun			
1	1	14	7.21428571	1.80506004	3.28571429	1.43733575		
1	2	12	7.16666667	2.69117525	2.83333333	1.80067327		
2	1	13	8.46153846	2.29548051	4.07692308	1.38212026		
2	2	14	6.21428571	2.00685638	2.42857143	1.82774707		
Level of	Level of		-CATTLSO]_	-CATINCO)—		
PRIMINGT	ETHNIC		Mean	SD	Mean	SD		
1	1	14	3 57142857	1,22249969	0.35714286	0.63332369		
1	1	12	4 08333333	1,31137217	0.25000000	0.62158156		
1 2	2 1	12	4 23076923	1.09192843	0.15384615	0.37553381		
2	1 2	14	3 50000000	0.94053994	0.28571429	0.61124985		
2	4	+	al indep study	ethnic:l=english	2=chinese	44		
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Level of	Level of		-BRATTI	L	-BRAFIL-		
PRIMINGT	ETHNIC		Mean	SD	Mean	SD	
1 1 2 2	1 2 1 2	14 12 13 14	2.00000000 2.33333333 4.69230769 1.21428571	2.21880078 3.08466392 4.19095485 1.47692880	0.71428571 0.83333333 1.53846154 0.28571429	1.13872881 1.46680440 1.85361739 0.82542031	
Level of	Level of		-BRASC)C-	-BRAINCO	R-	
PRIMINGT	ETHNIC		Mean	SD	Mean	SD	
1 1 2 2	1 2 1 2	14 12 13 14	0.21428571 1.16666667 1.84615385 0.78571429	0.57893422 1.52752523 2.07549809 0.80178373	1.07142857 0.33333333 1.30769231 0.14285714	1.59152978 0.65133895 1.75045782 0.36313652	
Level of	Level of		-BNCOR	-	-BNINCOR	-	
PRIMINGT	ETHNIC		Mean	SD	Mean	SD	
1 1 2 2	1 2 1 2	14 12 13 14	0.71428571 1.50000000 2.76923077 0.64285714	.13872881 .78376517 .85473402 .92878273	1.28571429 0.16666667 0.84615385 0.00000000	1.77281052 0.38924947 1.21423185 0.00000000	
Level of	Level of		-BCCOR		-BCINCOR	-	
PRIMINGT	ETHNIC		Mean	SD	Mean	SD	
1 1 2 2	1 2	14 12 13 14	4.85714286 4.5000000 6.15384615 3.85714286	76953600 52909981 86967169 41333293	1.28571429 0.41666667 0.07692308 0.28571429	2.01641614 0.79296146 0.27735010 0.61124985	
Level of	Level of		-NCCOR	<u>-</u>	-NCINCOR	_	
PRIMINGT	ETHNIC		Mean	SD	Mean	SD	
1 1 2 2	1 2 1 2	14 12 13 14	1.00000000 2.08333333 3.23076923 1.14285714	.41421356 .42340430 .94025900 ,29241235	1.00000000 0.25000000 1.00000000 0.14285714	1.61721508 0.62158156 1.47196014 0.36313652	
Level of	Level of		-COMPC)—	-COMNEG	_	
PRIMINGT	ETHNIC		Mean	SD	Mean	SD	
1 1 2 2	1 2 1 2 cross	14 12 13 14 s-cultur	0.35714286 0.58333333 0.07692308 0.35714286 al indep study	0.63332369 0.99620492 0.27735010 0.92878273 ethnic:l=english	0.28571429 0.75000000 0.15384615 0.64285714 2=chinese	0.61124985 2.59807621 0.37553381 1.27744594 45	
					08:55 Tuesday,	April 20, 1999	

Level of	Level of	of -COMN			-	-GENDER	-GENDER-		
PRIMINGT	ETHNIC		Mean		SD	Mean	SD		
1 1 2 2	1 2 1 2	14 12 13 14	0.1428571 0.7500000 0.0000000 0.5000000	4 0 0 0	0.36313652 1.48477118 0.0000000 1.28601950	1.71428571 1.41666667 1.30769231 1.28571429	0.46880723 0.51492865 0.48038446 0.46880723		
Level of	Level of			-AGE-		-PROF-			
PRIMINGT	ETHNIC		Mean		SD	Mean	SD		
1 1 2 2	1 2 1 2	14 12 13 14	20.714285 20.166666 20.307692 20.642857	7 7 3 1	0.91387353 1.46680440 0.48038446 1.44686094	1.14285714 1.50000000 1.07692308 2.00000000	0.53452248 0.67419986 0.27735010 0.87705802		
	Leve PRIM	l of INGT	Level of ETHNIC		-LANG- Mean	SD			
	cros	s-cultu	ural indep	14 12 13 14 study	0.71428571 1.00000000 0.84615385 0.85714286 ethnic:l=english	0.46880723 0.00000000 0.37553381 0.36313652 2=chinese 08:55 Tuesday,	46 April 20, 1999		

Source Model Error Corrected Total	DF 3 46 49	Sum of Squares 396.54747253 4712.57252747 5109.12000000	Mean Square 132.18249084 102.44722886	F Value 1.29	Pr > F 0.2890
	R-Square	C.V.	Root MSE	D	EPSC Mean
	0.077616	13.81980	10.12162185	73	.24000000
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	84.93964573	84.93964573	0.83	0.3673
ETHNIC	1	290.09888337	290.09888337	2.83	0.0992
PRIMINGT*ETHNIC	1	21.50894342	21.50894342	0.21	0.6490
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	117.54948396	117.54948396	1.15	0.2897
ETHNIC	1	301.84989976	301.84989976	2.95	0.0928
PRIMINGT*ETHNIC	1	21.50894342	21.50894342	0.21	0.6490
Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
vis vs ver w/in ex	ng 1	20.34615385	20.34615385	0.20	0.6579
vis vs ver w/in cl	hin 1	113.66785714	113.66785714	1.11	0.2977
eng vs chin w/in v	vis 1	222.69431438	222.69431438	2.17	0.1472
eng vs chin w/in v	ver 1	88.91351241	88.91351241	0.87	0.3564

cross-cultural indep study - ethnic:1≠english, 2=chinese 47 08:55 Tuesday, April 20, 1999

Lev	Level ofDEPSC							
PRI	MINGT	N	Me	an	SD			
1		23	74.6	521739	9 3740876			
2		27	72.0	370370	10.9033569			
Lev	el of			DEPSC				
ETH	NIC	N	Me	an	SD			
1		26	71.0	384615	8.3975271			
2		24	75.6	250000	11.5788882			
Level of	Lev	vel of			-DEPSC			
PRIMINGT	ETH	INIC	N	Mean	SD			
1	1		13	71.923076	9 7.25	09946		
1	2		10	78.200000	0 10.95	24224		
2	1		13	70.153846	2 9.62	50208		
2	2		14	73.785714	3 12.05	86935		
cross-cu	ltural	indep	study -	<pre>- ethnic:l=</pre>	english, 2=ch	inese		48
		-			08:59	5 Tuesday,	April 20), 1999

General Linear Models Procedure

Dependent Variabl	e: YRSEDUC				
Source Model Error Corrected Total	DF 3 43 46	Sum of Squares 191.38396887 575.25432900 766.63829787	Mean Square 63.79465629 13.37800765	F Value 4.77	Pr > F 0.0059
	R-Square 0.249641	C.V. 26.44723	Root MSE 3.65759588	YRS 13	EDUC Mean .82978723
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC PRIMINGT*ETHNIC	1 1 1	40.89192106 139.81650831 10.67553950	40.89192106 139.81650831 10.67553950	3.06 10.45 0.80	0.0875 0.0024 0.3767
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT ETHNIC	1 1 1	27.85149441 139.17898346 10.67553950	27.85149441 139.17898346 10.67553950	2.08 10.40 0.80	0.1563 0.0024 0.3767
PRIMINGT*ETHNIC	ਸਹ	Contrast SS	Moon Gruppo	E TT-l	D
Contrast vis vs ver w/in er	1 ng	1.82900433	1.82900433	r value 0.14	Pr > F 0.7134

vis vs ver w/in chin	1	40.77014652	40.77014652	3.05	0.0880
eng vs chin w/in vis	1	36.08728590	36.08728590	2.70	0.1078
eng vs chin w/in ver	1	114.40476190	114.40476190	8.55	0.0055

cross-cultural indep study - ethnic:l=english, 2=chinese 49 08:55 Tuesday, April 20, 1999

General Linear Models Procedure

	Level PRIMI	of NGT	N	Mea	•YRSEDUC_ n	SD				
	1 2		23 24	14.78 12.91	26087 66667	4.209 3.821	90738 18428			
	Level ETHNI	of C		Mea	nYRSEDUC	- SD				
	1 2		21 26	15.80 12.23	95238 07692	4.118 3.338	48331 35519			
Level PRIMI	of NGT	Level ETHNI	of C		Mean	SEDUC	SD			
1 1 2 7		1 2 1 2 cross	-cult	11 12 10 14 - Chine	16.0909091 13.5833333 15.5000000 11.0714286 ese subjects	only	4.59248398 3.60450055 3.74907396 2.70225791 08:55 Tuesda	y, April	20,	50 1999

General Linear Models Procedure Class Level Information

Class Levels Values

PRIMINGT 2 12

Number of observations in data set = 53

NOTE: Due to missing values, only 28 observations can be used in this analysis

cross-cult - Chinese subjects only

General Linear Models Procedure

Dependent Variable: ORIGIN

Source Model Error Corrected Total	DF 1 26 27	Sum of Squares 0.10714286 14.75000000 14.85714286	Mean Square 0.10714286 0.56730769	F Value 0.19	Pr > F 0.6675
	R-Square	C.V.	Root MSE	OR:	IGIN Mean
	0.007212	175.7463	0.75319831	0	.42857143
Source	DF	Type I SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.10714286	0.10714286	0.19	0.6675
Source	DF	Type III SS	Mean Square	F Value	Pr > F
PRIMINGT	1	0.10714286	0.10714286	0.19	0.6675

cross-cult - Chinese subjects only

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Level of PRIMINGT	N	Mean	SIN
1	12	0.5000000	0.79772404
2	16	0.37500000	0.71879529