Social Psychology of Auspicious and Ominous Cardinal Numbers in Oriental and Occidental Cultures and Their Translations*

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Abstract——Ethnic culture, religious belief, legends and tales have made a great impact on numbers and they are endowed with cultural connotation. People from different cultures look numbers as auspicious or ominous ones which are favourite in a race or taboo in the other. Connotation and associative meaning of the numbers have gestated peculiar digital cultures in different countries. By comparison between Chinese and English numbers in connotation and denotation we may understand the English and Chinese social cultures better and avoid the conflicts and misunderstanding in cross-cultural communications, which can be of help in translating numerical idioms. Translation criteria of numbers are discussed.

Index Terms——number cultures, social psychology, numerical languages, fuzzy languages, numerical translation

I. INTRODUCTION

In mathematics, cardinal numbers, or cardinals for short, are a generalization of the natural numbers used to measure the cardinality (size) of sets. According to Huinan Bao(2001), the ideas of numbers originates from the nature and were found by people in observing and exploring the world, and Jinzhi Su(1991)explained that, while human beings acclimatized themselves to the demands of social production, with the development of human thinking and the need of human practice numbers in the forms of symbols generated. Numbers belongs to a particular field of linguistics, and functions of numbers applied in science are enumeration, and if the numbers work out problems precisely, orderly and demonstrably, they are real numbers. When the numbers are applied in the field of social psychology, they refer to the semantic meanings. Bingqin Wang(1998) stressed that some numbers had been apotheosized as abstruse, nihilistic, and natural ones which contain connotation and denotation.

People around the world live in different regions and countries, or even an ethnic group different from the others, therefore, the same cardinal number may have a different association meaning in their cultures. Those cardinal numbers take on new symbolic meanings beyond a language. Some Chinese cardinal numbers have the same meaning as them in English even though some are different in the two cultures. The variety in semantic reflect the cultural psychological differences between Chinese and English.

II. ORIGIN OF NUMBERS AND THE DEVELOPMENT OF COUNTING SYSTEM

The ancient Indian invented the numeric symbols such as 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and then the numbers were passed down to Arabia and from Arabia to Europe. The European thought that the Arabian created those digits by mistake which were called "the Arabic Digits" afterwards. Currently the Arabic numbers are worked in all around the world.

As to the origin of Chinese digits, there are different ideas sharply. Moruo Guo, the historian, literati, poet, and Jiaguwen1 (inscriptions on bones or tortoise shell) expert argued that the ancient Chinese people conveyed the concept of numbers with their hands and in this way that they found the expressions about numbers. He further pointed out that the idea of numbers are from their hands, the Chinese characters: 一(one), 二(two), 三(three), 四(four). As follows:

![Picture 1](Jiaguwen, a style of Chinese character, produced in about BC 3000, Shang Dynasty)

* This paper is one of researches of 2013 Teaching and Research Project for Wuhan Municipal Universities entitled the Application of English Corpus-based Translation Teaching in English Majors of Chinese Universities. The Project Number 2013017.

1 A style of Chinese character produced in about BC 3000, Shang dynasty. Characters were written on bones or tortoise shells.
The Chinese numeric shapes of 1, 2, 3, 4 are like fingers. But why are the strokes written horizontally? In the ancient China, the Han Chinese ancestors expressed the concepts with their hands as follows:

Those pictures show us the numeric meanings horizontally, that is the reason. The Arabic digits were introduced to China in about 13th century, but they were not adopted. It was not until the 20th century that the Arabic numbers came into use in the cultural field and daily life.

### III. CARDINAL NUMBERS IN CHINESE IDIOMS

Xinchun Su (1995) considered that a language is a philosophy and tool with which a people observe the world. National cultural nature is agglomerated in a language. The connotation of a word is a reflection of cultural contents. Cardinal numbers have been widely used in our life and they get involved in our languages. Numbers are regarded as a special cultural memory stored in every culture. According to the Great Chinese Dictionary\(^2\), compiled by the Chinese Dictionary Committee, there are a large amount of idioms contained numbers from one to nine. The following table is a statistics according to Chinese Idiom Dictionary\(^3\). The total is 15,000. When cardinal number idioms (1 to 10) are picked out, the data presents as following:

<table>
<thead>
<tr>
<th>Quantity(in Chinese idioms)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1197</td>
<td>138</td>
<td>358</td>
<td>147</td>
<td>147</td>
<td>82</td>
<td>111</td>
<td>154</td>
<td>107</td>
<td>133</td>
<td>12426</td>
<td></td>
</tr>
</tbody>
</table>

More numbers, such as 0, hundred, thousand, 万 (10 thousand), 亿 (100 million), are not included in the above statistics, the proportion will be larger if all numbers are counted.

Even members are Chinese preference in all walks of life. The idioms contained number 2, 4, 6 and 8 are from The Chinese Idiom Dictionary. The following 2, 4, 6, 8 idioms are commendatory ones.

**Commendatory idioms:**

<table>
<thead>
<tr>
<th>2 (shuang, liang, duo)</th>
<th>4</th>
<th>6</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>二龙戏珠，二人同心，合二为一</td>
<td>四海一家，四海为家，志在四方，四平八稳，四通八达，四面八方，四海之內皆兄弟，四海升平、放之四海而皆准、扬名四海</td>
<td>八拜之交，眼观六路，八斗之才，八方呼应，八方支持，八方支援，八九不离十，半斤八两，八面玲珑，八面威风，八仙过海，各显神通，才高八斗，二八佳人</td>
<td></td>
</tr>
<tr>
<td>二龙戏珠，二人同心，合二为一</td>
<td>四海一家，四海为家，志在四方，四平八稳，四通八达，四面八方，四海之內皆兄弟，四海升平、放之四海而皆准、扬名四海</td>
<td>八拜之交，眼观六路，八斗之才，八方呼应，八方支持，八方支援，八九不离十，半斤八两，八面玲珑，八面威风，八仙过海，各显神通，才高八斗，二八佳人</td>
<td></td>
</tr>
</tbody>
</table>

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\(^1\) Edited by Xiaoping Xie, 15,000 idioms, in September, 2010, Shanxi People’s Education Press, Xi’an.

\(^2\) Edited by Zufeng Luo, and compiled by the Chinese Dictionary Committee in November, 1986, 22,700 Chinese characters, attached 2000 illustrations, 12 volumes. The first volume was published in 1986, and was completed in November, 1993.
IV. SEMANTIC FUZZY IN CARDINAL NUMBERS

The principal function of cardinal numbers is counting. But when they are used in literature or idioms, the meaning of a number is fuzzy. L.A. Zadeh (1965), American scientist, pointed out that the process of human being’s aesthetics and thought is fuzzy, and the essence of a descriptive language is vague in the description is usually a summary of complex conditions (D. Dubois, 1980:2). Complexity is in inverse proportion to accuracy. That is, when the matter gets more complicated, it is less likely to analyze or describe accurately. It is not a tragedy when our thoughts can work out the complex problems without the accurate analysis (Paul P. Wang, 1980:129). When many words (Chinese characters) defined nowadays definitely are explored the derivation, it would be found that the meanings are vague (Tieping Wu, 2000:337).

Precise numbers are not always precise, they are sometimes vaguely used in discourse, which inevitably brings difficulties to translators.

Cardinal numbers used in Chinese are very common, and what they refer to are fuzzy, such as “1 xin 1 yi(concentration), “1 qiong 2 bai(very poor)”, “3 peng 4 you(close friends)”, “5 yan 6 se(colorful)”, “7 shang 8 xia(very nervous)”, “9 niu 1 mao(many, much)”, etc.

In English, ten, twenty, hundred, a hundred and one, a thousand and one, million, billion are fuzzy language, too. More examples:

1. He has warned me against pickpocket twenty times.
2. I have a thousand and one things to do before we set out for our holiday.
3. A cat has nine lives.
4. A stitch in time saves nine.

Expressions like in two twos, two-to-two shop, three-bottle man, third dimension, four square, on all fours, four-lettered words, five-star, five and ten, etc.

V. A COMPARISON BETWEEN AUSPICIOUS OR OMINOUS NUMBERS

Pythagoras, the ancient philosopher, mathematician, considered that one, granted by the God, was an impartible entity. One is both a cardinal number and a pronoun. It means “one” and “somebody or something”. “the Holy One” refers to the God, “the Evil One” the Satan, “One and only” the love(lover), “Number One”. Han nation sing high praise for one all the time. One symbolizes the beginning, origin, and ancestor of something and implies “independent, alone”.

Dingzhang Wang(2009), in Popular Chinese Customs, described that if a girl was engaged, the girl’s family would receive a gift-note attached a giving list in details before their marriage. Every gift with a dainty description would refer to the God, the spirit.

In Russia, one is treated as the omnipotent and perfect number. It is as perfect as God or the Infinite (Мифы народа, 1992:630):

Ты, Господи, один,
Один, ни-кто и ни-взя.


In these verses, “один(one)” refers to the God, the spirit.

Two is the first even number in cardinal ones with the meanings of “double”, “more” in Chinese. Chinese have the passion for two, and people wish their good lucks, fortunes will come two by two. There are some expressions about two in Chinese, such as “hao shi cheng shuang (Good things come in pairs...)”, “shuang xi lin men(Double bliss visit you.)”, “liang quan qi wei( to satisfy the both sides)”. Many Chinese parents and grandparents name their children with “shuang (two)”, or “dai (two)” for the purpose of propitiousness. Meanwhile some idioms contained two are derogatory, such as “er shai zi (fool)”, “er lai zi (hooligan)”, “er bai wu (idiot)” (New Word Dictionary, 1993)

But two does not make a good impression on the westerners as it to the orientals. In English, two is an ominous number, and it comes from the plural form —dicel of die, and death isn’t welcome. The ancient Romans sacrificed Pluto, King of the Underworld, in February and the dead on the 2nd, February. Since mining digs up wealth from under the earth, Pluto came to be associated with the Underworld, and he became associated with Hades. The name Pluto is more common in Roman mythology, so it is sometimes said that Pluto is the Roman version of the Greek god Hades. Pythagoras also considered that two carried change, disorder. Consequently, it is an odd number (any other but 13) in a bunch of flowers as a giving in the western culture.

To the Russian, two represents —departure and unity.

Ирекой, разошедшийся вдвоем — Чтобы остросознать — нобьять.(Цветаева 1994:2:338)

Поканепоздно, хочешь, скажем/Впоследниеразостановимся.../...Носердцем нашли и разошлись/И обьять — наразных два./Когда одиноминадолго/Всезрелизполна звездах./ Двонеразличныхкрайних дольм/Помчатьсявразныхпоездах.(Цветаева 1992:1:168)
Three is one of the Chinese favourite numbers due to its meanings—“many, much” in Chinese culture. Lao tzu\(^4\), the founder of Taoism, pointed out that the divine law is the beginning (Dao gives birth to one), and one gives birth to two, and two to three, and three to all the things in the universe—from nihil to existence and to infinity. In the changing process three is the key. We always talk about “san yang kai tai (three Yangs make good fortune)”, the implied meaning is “All things go well!” and “Good luck!”. The quotation spoken in the coming new year is from Changes\(^5\), and it conveys the meaning of the next year’s beginning. Yang (positive force) is the most powerful material, and the first, second and third trigram of the nine ones are mightily compared to Yin (negative force), therefore the force of three Yangs is beyond compare.

It could be figured out by the structures of Chinese characters that three expresses the primary meanings of “more” such as: “氽(three Chinese characters 水, it means “more water”), “森(three 木, more trees, forest)”, “炁(three 火, very hot)”, “晶(three 日, very bright)”, “磊(three 石, more stones)”, “众(three 人, more persons, crowd)

Pythagoras considered three as a perfect and harmonious number and a changing unity. Three equals trinity, and trinity = 1(unity) + 2(diversity), it presents the philosophical development periods(beginning—development—end) in a matter. In the early Christian doctrine (tenet), three refers to the Father, the Son, and the Holy Spirit . People who believe the Trinity teaching say that each of these three persons is said to be equal to the others, almighty, and without beginning. The westerners uphold three not only for its sanctity and propitiousness but for its traditional elements, as the world is threefold (earth, sea, and air); man is threefold (body, soul, and spirit); the enemies of man are threefold (the world, the flesh, and the devil); the Christian graces are threefold (Faith, Hope, and Charity); the kingdoms of nature are threefold(mineral, vegetable, and the animal); the cardinal colors are three in number (red, yellow, and blue)(Brewer's Dictionary of Phrase and Fable, London: Cassell & Company Ltd. 1963).

There are different ideas about three in British folk customs. It is said that fortune and doom are threefold, two is followed by three, and if the eildoings visit you twice, they will come for a third time. Russians prefers three to the others. We can infer from the Russian idioms: Помнитш нисла: молис, терпи, работай, Безтроицы домо строится.

In Changes, Taiji (great supreme) give birth to Liangyi (two rituals), and Liangyi gives birth to Sixiang (four directions), so four symbolizes the world. Four also refers to “si fang (the east, north, west, and south)”, “the earth (the front, backward, left and right)” But four is not popular with natives in Hongkong, Guangzhou, and Taiwan because of its pronunciation similar to death in Chinese characters. In the south China dialect, the pronunciation of fourteen is “死去(really dead)”, people try to avoid to use it.

In Japan, there is no number 4 or 9 clinic or ward. In Japanese, four has the same pronunciation as death[死(し)] , and nine as hardship[苦(く)], surely the patients are unacceptable. 42 is pronounced as “死に(しに)”, correspondingly there is no number 4 park in the park lots or room in the hotels. Some telephone numbers like 4219 (しにいく(死に行く)) and 9683 (くろはさん) are avoided in Japan.

Pythagoras considered four, the first square number, as a perfect number. Four ,thought as “unity”, “diligency”, and “stabilization”, represents missionaries in Christian doctrine, idioms as “the four corners”, “the four corners of the earth,” the four letter word”. Four conveys the meanings of “directions or unity” in Russian, such as безучты-рекулыйизбраницоват: Благословляю Вас!Четырестоны; Положитеимя/ Промеж четыр-рехдорог; ... удращатъ-рыхтерговт.

What about five and six? Five is neither derogatory nor commendatory. It is neutral. People always read “wu gu feng deng(Wish the five cereals (rice, two kinds of millet, wheat and beans) productive.”, or “wu fu lin men(May the five fortunes approach our doors.)”, wu fu refers to “long life”, “wealth”, “health”, “an ethical life”, and “a peaceful death”. The five principal definitions in the ancient Chinese philosophy are the five elements (Jin, Mu, Shui, Huo, Tu). Confucians thinks that five is the Golden Mean. Pythagoras took five as a natural and artistic number. The Jesu’s scars were five in the Christian doctrine.

Six has the meanings of “prosperity” and “safety” is also one of the Chinese favourite numbers as two with the same pronunciation of “禄 (Chinese character, it means wealth.)”. People prefer 66,666, or 6666 to the other numbers as their telephone numbers or license plate numbers. Pythagoras saw six as justice and the early Christians thought that God created the world in six days. as the number In western countries, six is a devil number in the Bible.

In the north China, because of the homophone with “起(它 means “rise”)”, seven is popular with the natives. Most Americans are interested in 777 due to the numerical permutation and combination in the gambling slot machines as well as Black Jack (21). In English, seven is holy and mysterious. It has a great influence on the British culture as well as the whole world. God created the world in seven days in the Christian’s belief. There are many expressions such as the Seven Sages of Greece, the Seven Bishops, the Seven Virtues, the Seven Deadly Sins, the Seven Gifts of the Spirit, etc.

Seven is holy, mysterious and supreme in Russian. There are many idioms contained seven: наследьмомиче, Семеродногонеждут, Семьразотмерь, одинразотрежь, семипядейволбу, засемьверстнислебать,

\(^4\) Er Li (600 BC. - 470 BC.), Chinese ancient thinker, philosopher, and founder of Taoism in the Spring and Autumn Period.
\(^5\) Chinese ancient classic philosophy works, written in about 3000 BC., Zhou Dynasty.
Eight, in Chinese “八”—apart, which was expressed in Analytical Dictionary of Chinese Characters,
isn’t a hieroglyph. People always appoint the date which there is an eight number (the 8th, 18th, 28th) as the
society. Eight is similar to the pronunciation of “发 (Chinese character)”, and it means “get rich”. Most have the
choosing an eight number or more eights, if possible, and the more the better, as their house, room, telephone
numbers and account number. In the south China, people would spend much money in earning the privilege of
choosing an eight number or more eights, if possible, and the more the better. In China, people would spend
much money in earning the privilege of “518 (I will get rich.),” “918 (It will be prosperous.)” “888(to get rich all the time.)” in the business.

In Europe, it is a sign of stability and harmony. According to Bible, eight persons escaped from the Flood, so eight
means luck. Jesus’s brother, Jacob had 8 children, and the vertical 8, which looks like two rings, symbolizes a happy
marriage. The horizontal 8∞, is an infinite sign which means abundance, longevity, well-being, and posterity. In
Matthew, Jesus preached his pupils and talked about the eight events, and eight became the gospel number.

Nine was titled the kings or emperors in ancient China as “九五之尊(imperial throne)”. It is regarded as the largest
positive number which symbolizes the powerful force. There are some expressions about nine in China, such as “jiu
chong xiao(the farthest sky),” “san jiao jiu liu (all walks of life),” “jiu si yi sheng(a narrow escape),”etc. Nine is also a
mysterious number in western culture. The Nine refers to the Muses who was in charge of art and science in Greek
mythology. A cat has nine lives in English idioms. It is said that the sight of nine pied magpies would bring you bad
lucks. “To be dressed up to the nines” means that someone dresses daintily and tidily. And “to the nines” refers to
“perfect”.

VI. SUGGESTIONS ON TRANSLATIONS OF NUMERICAL LANGUAGES

Cultural accumulations have come from the political events (Watergate scandal, the Gettysburg address, etc.),
cultural influence (the ancient Greek mythology). What is culture? It is defined as the totality of beliefs and practices
of a society. A language is the carrier of culture, and it is conveyed and communicated through the media of a language.
Therefore, to understand the differences between the oriental and occidental cultures is the key to communicate and translate successfully.

Suggestions:
1. Numerical languages reflect a certain culture.
2. Numerical languages have its vocabulary and is the sign of cultural focus.
3. Numerical languages are an emotional expression.

Eugene A. Nida, American translator and theorist, thought that: —For truly successful translating, biculturalism is
even more important than bilingualism, only by being in the countries in which a language is spoken can one acquire
the necessary sensitivity to the many special meanings of words and phrases.”(Eugene A. Nida, 2002:82)

Based on the cultural differences between English and Chinese, we may adopt some translation strategies to
numerical idioms in cross-cultural communication activities:
1. literal translation: such as “hao shi cheng shuang(好事成双)”——Good things come in pairs. “liang quan qi wei (两全其美)”——to satisfy both sides.
2. free translation: such as—jiu si yi sheng(九死一生)——a narrow escape.
3. note translation: “er lai zi (二百五)”——a hooligan, “—er bai wu (二赖子)”——an idiot.

The command of both source language and target language is a must for a qualified translator, but a better
understanding of two cultures or more is essential for an excellent translator. Numeric languages are present everywhere
and play an important role in our life. Option of auspicious cardinal numbers is human’s natural and normal activities
and they are only human being’s wishes for their life. It would be absurd if everything fortunate or unfortunate is
associated with numerical numbers. Hengli Li, chairman of the International Taoism Fund, claimed that there is no
necessary consequence between numerical numbers and fortune. The association meanings of the digital numbers are an
emotional expression and experience to the real society.

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