

行政院國家科學委員會補助專題研究計畫 ☒ 成果報告  
☐ 期中進度報告

台灣華語：書目、語料庫與教學參考語法——  
台灣華語中的分類詞：  
語料庫、書目與詞彙功能語法分析

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成果報告類型(依經費核定清單規定繳交)：☐ 精簡報告 ☒ 完整報告

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附件二

## 國科會補助專題研究計畫成果報告自評表

請就研究內容與原計畫相符程度、達成預期目標情況、研究成果之學術或應用價值（簡要敘述成果所代表之意義、價值、影響或進一步發展之可能性）、是否適合在學術期刊發表或申請專利、主要發現或其他有關價值等，作一綜合評估。

### 1. 請就研究內容與原計畫相符程度、達成預期目標情況作一綜合評估



達成目標

☐ 未達成目標（請說明，以 100 字為限）

☐ 實驗失敗

☐ 因故實驗中斷

☐ 其他原因

說明：

### 2. 研究成果在學術期刊發表或申請專利等情形：

論文：☒ 已發表 ☐ 未發表之文稿 ☐ 撰寫中 ☐ 無

專利：☐ 已獲得 ☐ 申請中 ☐ 無

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其他：（以 100 字為限）

3. 請依學術成就、技術創新、社會影響等方面，評估研究成果之學術或應用價值（簡要敘述成果所代表之意義、價值、影響或進一步發展之可能性）（以500字為限）

分類詞與量詞是否能精準的區分一直存有爭議。贊成區分的學者所提出的兩個測試：「「的」插入法」與「形容詞修飾法」，已被證實缺乏準確性。本文深入檢視此二測試法，進而提出兩組精確且真實可靠之測試。並且運用亞里斯多德對於「本質特徵、偶然特徵」、以及康德對「分析命題、綜合命題」之區分，適切地描繪出「分類詞、量詞」之區辨。由於量詞具有實質之語義，因此阻絕了數詞及形容詞對名詞的修飾；相對的，分類詞僅彰顯名詞本身既有之某些語義特徵，並不貢獻任何額外的語義，因此數詞及形容詞可穿透分類詞而修飾名詞。

對於數詞 (Num)、分類詞與量詞 (C/M)、名詞 (N)，如「三匹馬」或「三箱書」，三者之間的結構，先前的看法可分三種，一是 [Num C/M] 先形成詞組，二是 [C/M N] 先形成詞組、三是兩種結構都需要。本文主旨在於論證 [Num C/M] 的結構不僅能捕捉 C/M 兩者之間的共通性（例如兩者在數學上均可解讀為被乘數，其質分別為 1 與  $\neg 1$ ），同時在類型學上也能完整解釋 [Num C/M N] 在語言中存在的四種詞序；相形之下，另外兩種看法均會產生過度生成（overgeneralization）與生成不足（undergeneralization）的缺失。本文並在詞彙功能語法（Lexical-Functional Grammar, LFG）的理論架構下對漢語分類詞與量詞做出形式分析。C/M 兩者的詞組結構（c-structure）相同；但其功能結構（f-structure）不同：分類詞與 N 同為中心語（co-heads），在此也表現出分類詞如何彰顯（profile）N 的某項本質特徵，而量詞的功能則是 N 的 QUANTIFIER。

## On the Semantic Distinction between Classifiers and Measure Words in Chinese<sup>\*</sup>

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Whether classifiers (C) and measure words (M) can be meaningfully distinguished in Chinese has been a controversial issue, reflected also by the drastic discrepancy in the inventories of classifiers previously proposed. The two tests, i.e. *de*-insertion and adjectival modification, that proponents for the C/M distinction proposed have been shown to be unreliable and thus rejected. We re-examine these two tests closely and propose two sets of refined, reliable, and revealing tests. We further employ the Aristotelian distinction between essential and accidental properties as well as the Kantian distinction between analytic and synthetic propositions to characterize the C/M distinction. M is therefore semantically substantive and thus blocks numeral quantification and adjectival modification to the noun; C, in contrast, does not form such a barrier, for it is semantically null in the sense that it merely highlights a semantic aspect inherent to the noun and thus contributes no additional meaning.

Key words: classifier, measure word, essential property, analytic proposition

### 1. Introduction

The classifiers this paper is concerned with are often referred to as ‘numeral classifiers’ because they are required to co-occur with numerals (e.g. Aikhenvald 2003:2). More specifically, it focuses on the so-called sortal classifiers. Such classifiers have lexical meanings in that classifier selection is based on certain intrinsic properties of the noun referents (e.g. Allan 1977, C. Hsieh 2009). Greenberg (1990[1975]:227) in fact claims that, in classifier languages, a numeral first forms a unit with a classifier, which in turn forms a unit with the noun. The fixed word order in a nominal phrase in Mandarin Chinese, a typical classifier language, is [(D)-NUM-CL-(N)], where a

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<sup>\*</sup> We are sincerely grateful to the anonymous reviewers of *Language and Linguistics* for their careful and insightful comments, which led to significant improvements of the paper. The contribution of the two co-authors is 80% and 20%, respectively, and the first author is also the corresponding author.

semantically compatible classifier or measure word must be employed before the noun when a numeral is present (e.g. M. Hsieh 2008, Tang 1990).

Previous studies of Mandarin classifiers, however, have come up with very different inventories, ranging from as many as six hundred (Hu 1993), four hundred and twenty-seven (Huang & Ahrens 2003), two hundred (Hung 1996), to as few as just several dozen (Erbaugh 1986); as noted by Liang (2006:17), this drastic discrepancy arises primarily from the dispute over what counts as a ‘classifier’. It is uncontroversial that besides sortal classifiers, as in (1a), there are mensural classifiers, as in (1b) (e.g. Chao 1968, Allan 1977, Loke 1983, C. Hsieh 2009). The former subcategorizes objects with reference to their intrinsic properties, while the latter measures the quantity (e.g. Liang 2006, C. Hsieh 2009). However, they do seem to occupy the same slot and are mutually exclusive, as shown in (1c-d).<sup>1</sup>

- (1) a. 一 本 書 (Sortal classifier)  
       *yi ben shu*<sup>2</sup>  
       one C book  
       ‘one book’
- b. 一 箱 書 (Mensural classifier)  
       *yi xiang shu*  
       one box book  
       ‘one box of books’
- c. \*一 箱 本 書  
       *yi xiang ben shu*  
       one box C book
- d. \*一 本 箱 書  
       *yi ben xiang shu*  
       one C box book

However, measure words are a mundane part of all natural languages, but sortal classifiers uniquely set apart the small number of classifier languages like Chinese and Japanese.<sup>3</sup> Tai (1994) thus points out the significance of this distinction from a typological point of view. We shall hereafter reserve the term *classifiers*, or C for short,

<sup>1</sup> However, we shall demonstrate in §2.3 that this is not the real picture and that they are not mutually exclusive and thus do not occupy the same slot.

<sup>2</sup> Hanyu Pinyin is used in the paper for transcription.

<sup>3</sup> Such classifier languages include most Southeast Asian languages, indigenous languages of western Americas, and Sub-Saharan African languages (Nichols 1992:200).

for sortal classifiers only, and refer to mensural classifiers as *massifiers* or *measure words*, or M in short.<sup>4</sup> We shall argue in the paper that the C/M distinction is real and it is crucial. The paper is organized as follows. Section 2 first justifies two sets of tests that serve to distinguish C and M. Section 3 then offers a precise semantic characterization for C and M. Section 4 concludes the paper with a summary.

Note that, unlike most previous studies on Mandarin classifiers, this study uses only data from a single dialect, Taiwan Mandarin (cf. Cheng 1985, Hsu 2006, Her 2009). All grammaticality judgments are thus based on native speakers from Taiwan and corpus data are from the Sinica Corpus and Google searches in the Taiwan domain.

## 2. Tests for the distinction between C and M

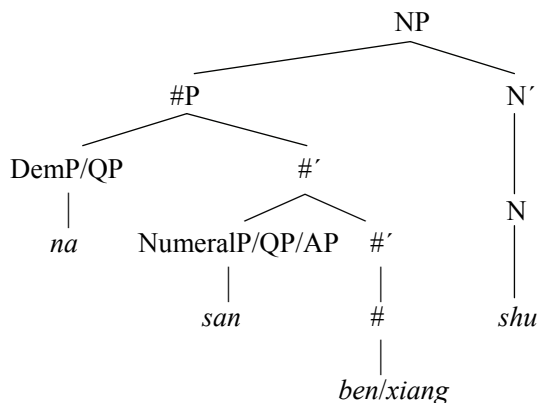
In this section, we shall first briefly review some of the formal syntactic analyses for C/M and then establish the count/mass distinction in relation to the C/M distinction, followed by a review of the two previous tests for the distinction of C as a distinct category from M. We shall offer three precisely formulated tests for the C/M distinction.

### 2.1 Formal syntactic analyses

In terms of the formal syntactic structure involving C and M, there are two opposing views in recent studies. Tang (2005) and M. Hsieh (2008) consider C and M to be syntactically alike and offer the same structure analysis. Thus, in (2a), Tang (2005) has both C and M as the head of a classifier phrase (CIP), while M. Hsieh (2008) likewise has either C or M as #, the head of a #P.

- (2) a. [DP...[NumP...[CIP...[NP...]]]]  
 b. 三 箱/本 書  
*san xiang/ben shu*  
 one box/C book  
 'three (boxes of) books'

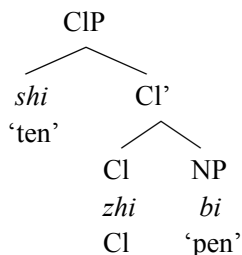
<sup>4</sup> Cheng & Sybesma (1998) is the first to use the term *massifier*, adopted also in M. Hsieh (2008).



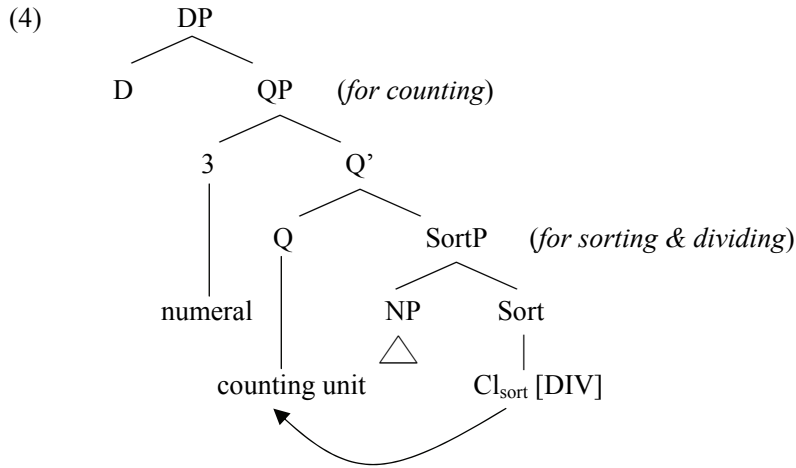
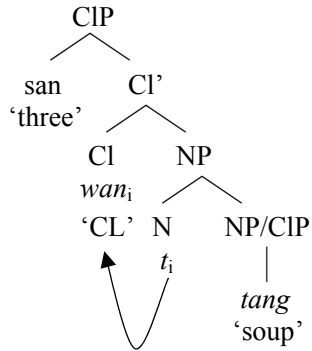
Such a unified analysis certainly explains why C and M occupy the same syntactic slot and are mutually exclusive. However, we shall demonstrate in §2.3 that this is not the real picture and that M in fact is structurally more prominent than C. Also, note crucially that even some of the proponents of the unified analysis, i.e. Tang (2005) and M. Hsieh (2008), acknowledge the count/mass distinction: C can only select count nouns, while M can occur with either count or mass nouns.

Though a unified analysis, even if justified, is not necessarily detrimental to our position that C and M are cognitively and semantically distinct, assigning C and M to different syntactic slots is certainly more conducive. This is precisely what Cheng & Sybesma (1998, 1999), Borer (2005), Watanabe (2006), and N. Zhang (2009) argue for. C, according to Cheng & Sybesma (1998, 1999), is base-generated as the head of CIP, as in (3a), while M, as shown in (3b), is base-generated under N and then moves upward to C. N. Zhang (2009), on the other hand, contends that C is base-generated as the head of SortP and can move up to Q, the head of QP and also where M is base-generated, as shown in (4).

- (3) a. 十 枝 筆  
*shi zhi bi*  
 ten C pen  
 'ten pens'



- b. 三 碗 湯  
*san wan tang*  
 three bowl soup  
 'three bowls of soup'



In either account, C eventually ends up in the same position as M, and thus also explaining why C and M occupy the same syntactic slot and are mutually exclusive. Again, this may be incorrect, as we shall demonstrate in §2.3. We shall thus no longer be concerned with the debate over the formal syntactic analysis and move on to the count/mass distinction and syntactic tests for the C/M distinction.<sup>5</sup>

<sup>5</sup> For a critical review on the C/M distinction, see M. Hsieh (2008), and for a critical review of M. Hsieh (2008), see N. Zhang (2009).



## 2.2 Count/mass distinction

It has been widely observed that C is restricted to things perceived as inherently discrete, thus countable, as in (5), while measure words are not, as in (6) (e.g. Allan 1977, Loke 1983, Cheng & Sybesma 1998, 1999, W. Li 2000, Tang 2005, Liang 2006, M. Hsieh 2008, H. Zhang 2007, N. Zhang 2009, C. Hsieh 2009).

- (5) 一 根 香蕉/\*水  
      *yi gen xiangjiao/shui*  
      one C banana/water  
      ‘one banana/\*water’

- (6) 一 箱 香蕉/水  
      *yi xiang xiangjiao/shui*  
      one box banana/water  
      ‘one box of bananas/water’

In (5), the C *gen* denotes a discrete and elongated object, e.g. a *banana*, and thus rules out the mass noun *water*.<sup>6</sup> On the other hand, in (6), both the countable *banana* and the mass *water* can be contained in a box *xiang*, an M. Thus, the crucial difference is that the numeral *one* in effect quantifies the countable noun *banana* in (5), while it quantifies the countable M *box* in (6), not the noun *banana* or *water*. The count/mass distinction thus serves to distinguish C and M in that C, not M, fails to co-occur with mass nouns. Cheng & Sybesma (1999:515, 1998:403) are thus correct in stating that ‘the count/mass distinction is clearly reflected in the classifier system’.

Tai (2003:312), however, contends that, in terms of the linguistic relativity hypothesis, there is no count/mass distinction in classifier languages, where all nouns can be treated as mass, and this is reflected in the fact that nouns in Chinese are not inflected for plurality,<sup>7</sup> cannot be counted without the accompaniment of classifiers, and can be either definite or indefinite when standing alone. He thus concludes that ‘nouns in classifier languages denote materials or substances, non-discrete and unbounded, while in English and other European languages, they denote objects with discrete boundaries’. The weaker version of Tai’s claim, i.e. that count nouns *can* be interpreted as mass nouns, is in fact not necessarily inconsistent with the conventional view, e.g. in Cheng & Sybesma (1998) and Tang (2005), which *can* be interpreted as: M does not

<sup>6</sup> Likewise, it should also rule out count nouns that do not have a compatible inherent feature.

<sup>7</sup> Y.-H. Li (1999) argues that the *-men* suffix in Chinese is indeed a plural morpheme; however, Iljic (1994) contends that it indicates collectivity. We thank an anonymous reviewer for the latter reference.

distinguish between count and mass nouns, while C requires count nouns. Take (6) for example: while the most natural reading of *yi xiang xiangjiao* is ‘one box of bananas’, where the boxful of bananas comes in the natural discrete units of banana, it is possible, though not probable, to have another reading where what is contained in the box is bits or pieces of banana or even mashed banana. In this second reading, *banana*, like *water*, is substance or material, and the measure word *xiang* serves to ‘carve out’, or ‘parcel’ (in Au Yeung’s (2007) terminology) the volume of a *boxful* from the banana or water mass. Thus, conceptually, the count/mass distinction does not exist, but only for M under such a reading.

However, the stronger version would mean that nouns in Chinese *always* denote mass, never discrete units. This seems to be the position upheld in Chierchia (1998), who contends that Chinese is a *kind*-denoting language, where common nouns must denote mass properties and thus can only be counted with the aid of an imposing classifier. In *object*-denoting languages, e.g. English, common nouns can denote discrete units and can be quantified by a numeral without a classifier. Under this interpretation, the C/M distinction also does not exist as they now function exactly the same: both serve to ‘carve out’ discrete, bounded units from substance or material. This view cannot be sustained. Take (5) for example. Under this view, *xiangjiao* ‘banana’ can only refer to the banana mass, and the reading of a natural unit of banana with peel is only accidental and due to the classifier *gen*, which ‘carves out’ an elongated discrete unit. This view thus predicts that (5), besides this natural reading, can also mean an elongated unit of bits or pieces of the banana substance or mashed banana. Such a reading is simply impossible. Tai & Wang (1990:38) characterize the C/M distinction as follows:

A classifier categorizes a class of nouns by picking out some salient perceptual properties, either physically or functionally based, which are permanently associated with entities named by the class of nouns; a measure word does not categorize but denotes the quantity of the entity named by noun.

According to this characterization, in Chinese there are natural classes of nouns that name entities which come in discrete countable units and such properties are indeed permanently associated with these nouns. The example in (7) should drive this point home.

- (7) 一      個    新      汽車  
       *yi*    *ge*   *xin*   *qiche*  
       one   C   new   car  
       ‘one new car’

The generic classifier *ge*, unlike *gen*, only serves to highlight the intrinsic discreteness of the thing in question and does not indicate shape, function, animacy, or any other semantic feature. Cars, especially those newly produced by automobile manufacturers come in naturally countable units and a forced reading of one newly and randomly assembled unit out of the car mass is not available. Nouns in Chinese that similarly denote entities with ‘inherent’ and ‘permanent’ properties, to quote Tai (1994:3), of being discrete units are count nouns; otherwise, mass nouns.<sup>8</sup>

The count/mass distinction thus serves as an indication to the C/M distinction. Here is the rule of thumb. Given a noun denoting an intrinsically discrete object or, as we shall demonstrate later, something abstract but perceived to be intrinsically discrete (e.g. *jiaoyi* ‘business transaction’ and *guiding* ‘regulation’), the single bare element required between a numeral and this noun is either C or M; if this element is only grammatically required in the counting of the natural unit of the noun and therefore contributes no additional semantic value to the phrase, it is a C; otherwise, it is an M. As seen in (7), the generic classifier *ge* contributes no semantic value to the compositional meaning of ‘one’ and ‘car’.

## 2.3 Formal tests for the C/M distinction

There have been two well-known syntactic tests for the C/M distinction: adjective insertion and *de*-insertion. Given the on-going controversy, it is not surprising that both tests have been rejected by opponents to this distinction. However, we shall demonstrate that both tests can in fact be made much more accurate, and thus reliable. The two tests can ultimately be unified under the observation that M blocks numeral quantification and adjectival modification to the noun, while C does not. Finally, *ge*-substitution will be introduced as a heuristic for C/M distinction.

### Test A: Adjectival Modification

Cheng & Sybesma (1998:390) claim that only M—and not C—can be modified by some bare adjectives, as shown in (8a) and (9) respectively. However, note that the bare adjectives allowed for M are in fact also strictly restricted to size (e.g. *da* ‘big’ and *xiao* ‘small’) and fullness or wholeness (e.g. *zheng* ‘whole’, as indicated by (8b)). We note further that even this highly restricted set of bare adjectives does not necessarily apply to all members of M, as shown in (8c). In other words, Cheng & Sybesma (1998) could

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<sup>8</sup> Our position is thus more compatible with Borer’s (2005) universalist view that all nouns in *all* languages are mass. In languages like Chinese, the use of classifiers turns a noun to a count noun; whereas in non-classifier languages like English, plural inflections are used for the same purpose.

thus only have meant for this to be a sufficient, but not necessary, condition for M.

- (8) a. 一 小/大 箱 書  
*yi xiao/da xiang shu*  
 one small/big box book  
 ‘one small/big box of books’
- b. \*一 紅/美 箱 書  
*yi hong/mei xiang shu*  
 one red/pretty box book
- c. \*一 小/大 磅 書  
*yi xiao/da bang shu*  
 one small/big pound book
- (9) a. \*一 小/大 隻 狗  
*yi xiao/da zhi gou*  
 one small/big C dog
- b. \*一 紅/美 隻 狗  
*yi hong/mei zhi gou*  
 one red/pretty C dog

However, though confirmed by some linguists, e.g. Liang (2006) and Tsai (2003), some of the native speakers we consulted do find (9a) acceptable and counter-examples to this test are acknowledged even by Cheng & Sybesma (1998) themselves, albeit in a footnote, and have been subsequently corroborated by many others, e.g. Tang (2005), M. Hsieh (2008), and N. Zhang (2009). Tang (2005) and M. Hsieh (2008) in fact utilize Taiwan Mandarin examples from the Sinica Corpus. Our own Google searches in the Taiwan domain have also come up with numerous [Adj-C] examples. For instance, there are 20 and 161 exact matches of (10a) and (10b) respectively.<sup>9</sup>

- (10) a. 一 大 顆 蘋果  
*yi da ke pingguo*  
 one big C apple  
 ‘one big apple’
- b. 一 大 本 書  
*yi da ben shu*  
 one big C book  
 ‘one big book’

<sup>9</sup> Data accessed on November 12, 2009.

This clear evidence is enough for even the proponents of C/M distinction, e.g. N. Zhang (2009), to write off this test as unreliable. However, we note a crucial difference here between C and M. As pointed out earlier, the pre-C numeral in effect quantifies the noun together with the C, while a pre-M numeral only quantifies the M itself, not the noun. Thus, concurrent numeral quantification at M as well as at the noun via a C, as in (11a), or stacking of M, as in (11b), is perfectly fine. However, comparable cases for C are entirely nonsensical, as in (12a-b). The concurrent M and C in (11a) also clearly indicate that C and M are not mutually exclusive as previously assumed, and M is in fact structurally more prominent than C.<sup>10</sup>

- (11) a. 一 箱 十 顆 蘋果  
*yi xiang shi ke pingguo*  
 one box ten C apple  
 ‘one box of ten apples’

- b. 一 箱 十 包 蘋果  
*yi xiang shi bao pingguo*  
 one box ten pack apple  
 ‘one box of ten packs of apples’

- (12) a. \*一 個 十 顆 蘋果  
*yi ge shi ke pingguo*  
 one C ten C apple

- b. \*一 個 十 包 蘋果  
*yi ge shi bao pingguo*  
 one C ten pack apple

Like the limited scope of quantification, a pre-M adjectival modification has only M as its scope, while a pre-C adjective transcends the C and also modifies the noun.

<sup>10</sup> The examples in (11a-b) are noun phrases, rather than a clause (i.e. topic-comment structure), because both can appear as the subject or object in a sentence, as shown below. We thank the reviewer who raised the question.

- (i) 他 給了 我 一 箱 十 顆 蘋果  
*Ta gei-le wo yi xiang shi ke pingguo*  
 he give-ASP I one box ten C apple  
 ‘He gave me one box of ten apples.’

- (ii) 這 一 箱 十 顆 蘋果 夠 嗎?  
*Zhe yi xiang shi ke pingguo gou ma*  
 this one box ten C apple enough Q  
 ‘Is this one box of ten apples enough?’

This fact is clearly illustrated in the English translations of (8) and (10), where the pre-C adjective in essence modifies the noun. Given the transcending modification of pre-C adjective, we can derive two precise predictions. First, adjectival modification on C is equivalent to that on N, as shown in (13b); M does not have this effect, as shown in (13a).

- (13) a. 一 大 箱 蘋果      ≠      一 箱 大 蘋果  
*yi da xiang pingguo*      *yi xiang da pingguo*  
 one big box apple      one box big apple  
 ‘one big box of apples’      ‘one box of big apples’
- b. 一 大 顆 蘋果      =      一 顆 大 蘋果  
*yi da ke pingguo*      *yi ke da pingguo*  
 one big C apple      one C big apple  
 ‘one big apple’      ‘one big apple’

The second prediction is that stacking of antonymous adjectives is impossible for C, as shown in (15), as the apple cannot be big and small at the same time.<sup>11</sup> Yet, it is perfectly fine for M, as in (14), where the box is big while the apples are red/small.

- (14) a. 一 大 箱 紅/小 蘋果  
*yi da xiang hong/xiao pingguo*  
 one big box red/small apple  
 ‘one big box of red/small apples’
- b. 大大的 一 箱 紅/小 蘋果  
*dadade yi xiang hong/xiao pingguo*  
 big one box red/small apple  
 ‘one big box of red/small apples’
- (15) a. 一 大 顆 紅/#小 蘋果  
*yi da C hong/xiao pingguo*  
 one big C red/small apple  
 ‘one big red/\*small apple’
- b. 大大的 一 顆 紅/#小 蘋果  
*dadade yi ke hong/xiao pingguo*  
 big one C red/small apple  
 ‘one big red/\*small apple’

<sup>11</sup> Thus, the only coercible reading is that *xiao pingguo* is the name of a particular variety of apples and therefore the meaning of ‘small’ is opaque.

To conclude, while M blocks numeral quantification and adjectival modification to the noun, C does not. Thus, Adj-C is more restricted than Adj-M. Furthermore, given a well-formed Adj-C, the same adjective can be shifted to modify the noun without altering the meaning. Also, both numeral stacking and antonymous adjective stacking prove to be prudent tests. Test A is thus revised in much more accurate terms as follows.

**Test A (revised): Numeral/Adjectival Stacking**

Test 1: If [Num X Num Y N] is well-formed, then  $X = M$ ,  $X \neq C$ , and  $Y = C/M$ .

Test 2: If [Num A X N] = [Num X A N] semantically, then  $X = C$  and  $X \neq M$ .

Test 3: Given antonyms  $A_1$  and  $A_2$ , if [Num  $A_1$  X  $A_2$  N] is semantically incongruent, then  $X = C$  and  $X \neq M$ ; otherwise,  $X = M$  and  $X \neq C$ .

**Test B: *de*-insertion**

Many linguists claim that *de* may be optionally inserted after M but not C, as shown in (16) (e.g. Chao 1968:555, Paris 1981:32, Zhu 1982:51, Tai & Wang 1990, Tai 1994, Cheng & Sybesma 1998:388, 1999:515, H. Zhang 2007:49).

- (16) 一 箱/\*本 的 書  
       *yi xiang/ben de shu*  
       one box/C DE book  
       ‘one box of/\*C books’

Again, the real picture is far from being so clear-cut. Both opponents, e.g. Tang (2005) and M. Hsieh (2008), and proponents, e.g. N. Zhang (2009), to the C/M distinction have come up with plenty of well-formed C-*de*-N examples. M. Hsieh (2008) again cites examples from the Sinica Corpus, as shown in (17) and (18). Note that *de* does not change the meaning at all for either C or M.

- (17) 五百萬 隻 的 鴨子  
       *wubaiwan zhi de yazi*  
       five-million C DE duck  
       ‘five million ducks’
- (18) 幾百 條 的 海蛇  
       *jibai tiaode haishe*  
       several-hundred C DE sea-snake  
       ‘hundreds of sea snakes’

Again, the evidence seems rather obvious. Nonetheless, the intuition behind the observation that C-*de*-N is much more restricted than M-*de*-N is also reasonable: C and N merge as one unit semantically, while M and N form two separate entities; the C-N sequence is thus more resistant to *de*-insertion. Possessive *de* before a human noun reveals the same insight, as shown in (19) and (20). Note again the meanings remain the same with or without *de*.

- (19) 我 (的) 爸爸  
       *wo de baba*  
       I DE papa  
       ‘my papa’
- (20) 我 \*(的) 理髮師  
       *wo de lifashi*  
       I DE barber  
       ‘my barber’

The intimate kinship between me and my father is indicative to the resistance of *de* intervention; the much more distant relationship between me and my barber, on the contrary, much favors the separation of the two nouns by *de*. Thus, given this iconic value of *de*-insertion (cf. Chappell & Thompson 1992),<sup>12</sup> all is not lost for its use in C/M distinction. And indeed, as noted by Tang (2005), further corroborated by N. Zhang (2009), that, in a [Number-C-*de*-N] phrase, the lower the number, the less acceptable is the phrase. Thus, the higher the number, the more naturally *de* intervenes between C and N. This observation is certainly confirmed by M. Hsieh’s two Sinica Corpus examples in (17) and (18), with *five million* and *several hundred* respectively. N. Zhang (2009) cites Croft (1994:163), Aikhenvald (2003:100), and Sato (2009:7) in noting that different properties between constructions with low and high numerals are observed in other languages as well and goes on to claim specifically that if the number is less than ten, then post-C *de* is ill-formed. This is confirmed by the examples cited in relevant literature and by our half dozen Taiwan Mandarin informants. However, our experiments also indicate that fractions of a number, including those with a value smaller than one, drastically increase acceptability. Google searches turned up 70 instances of 之一顆的 *zhi yi ke de* ‘one fraction of’, two of which are listed in (21).<sup>13</sup>

<sup>12</sup> Chappell & Thompson (1992) propose two principles governing the optional associative *de*.

(1) The closer the relationship between NP1 and NP2, the less likely *de* is to be used.

(2) The closer the relationship between NP1 and the *speaker*, the less likely *de* is to be used.

We thank the anonymous reviewer that provided this reference.

<sup>13</sup> Data accessed on November 12, 2009.



- (21) a. 八分之一 顆 的 高麗菜  
*bafenzhiyi ke de gaolical*  
 one-eighth C DE cabbage  
 ‘one-eighth cabbage’
- b. 四分之一 顆 的 洋蔥  
*sifenzhiyi ke de yangcong*  
 one-eighth C DE onion  
 ‘one-eighth onion’

An explanation is attempted in Tang (2005:444), where numeral contrast is interpreted as a contrast in ‘information weight’, thus the higher the number, the higher its information weight. However, our data in (21) indicates that it is not the *absolute value* of the number that affects the ‘weight’; rather it is the *computational complexity* that makes it ‘heavy’.<sup>14</sup> Compare (22a) with (22b): *ban* ‘half’ and *yi* ‘one’ are similarly discrete and monosyllabic, but the latter is ‘heavier’ and thus better, with 20 exact Google matches, because it is computationally more complex than the former, with merely one single token found.<sup>15</sup>

- (22) a. 半 顆 的 蘋果  
*ban ke de pingguo*  
 half C DE apple  
 ‘half an apple’
- b. \*一 顆 的 蘋果  
*yi ke de pingguo*  
 one C DE apple  
 ‘an apple’

The insight of information weight measured by computational complexity thus also predicts that any increased complexity of C itself should likewise increase the acceptability of *de*-insertion. The prediction is correct, as Adj-C-*de* with even the simplest number, one, is much better than bare C-*de*. Again, both examples in (23) are from Google searches, which gave 13 and 9 exact matches for each example respectively.<sup>16</sup>

<sup>14</sup> The term ‘heavy’ here is deliberate and relates nicely to Tang’s (2005) use of ‘information weight’. Also, the phenomenon under discussion here is surely reminiscent of the ‘heavy NP shift’ in English, where an ill-formed word order is allowed for a ‘heavy’ NP.

i. \*I gave to Mary them/the flowers.

ii. I gave to Mary the flowers that I personally picked from the garden of my country cottage.

<sup>15</sup> Data accessed on February 22, 2010.

<sup>16</sup> Data accessed on November 12, 2009.

- (23) a. 一 大 顆 的 高麗菜  
*yi da ke de gaolikai*  
 one big C DE cabbage  
 ‘one big cabbage’
- b. 一 大 條 的 魚  
*yi da tiao de yu*  
 one big C DE fish  
 ‘one big fish’

Assuming further that Greenberg (1990[1975]:227), along with Paris (1981:105-117),<sup>17</sup> C.-T. Huang (1982), Lin (1997), and M. Hsieh (2005, 2008) (see the tree in (2b)), is correct that the numeral and C first form a constituent, say CIP, before merging with the noun, we can state with confidence that any increased computational complexity in CIP increases the acceptability of *de* intervention. But, why should it be any different for M, assuming that M likewise forms a constituent, say MP, first with the numeral? Recall our generalization earlier that M blocks numeral quantification and adjectival modification to the noun, but C does not. CIP is thus inherently more closely tied to N than MP and thus naturally more resistant to intervention by *de*. This insight therefore nicely unites Test A and Test B. Assuming that *one* is computationally the least complex number,<sup>18</sup> we can now restate Test B in much more restricted terms and much more accurately as follows.

**Test B (revised): *De*-insertion**

Test: [*yi* **M**/\***C** *de* N]

**Test C: *Ge*-substitution**

Tai & Wang (1990) and Tai (1994) propose that, for C/M distinction, if the element in question can be substituted by 個 *ge*, the generic classifier, without any loss in meaning, then it is C; otherwise, it is M.

- (24) 三 顆 蘋果 = 三 個 蘋果  
*san ke pingguo san ge pingguo*  
 three C apple three C apple  
 ‘three apples’ ‘three apples’

<sup>17</sup> We thank the anonymous reviewer that provided this reference.

<sup>18</sup> It certainly is not zero, the concept of which was developed much later in the number systems in all human languages.

- (25) 三 箱 蘋果      ≠      三 個 蘋果  
       *san xiang pingguo*      *san ge pingguo*  
       three box apple      three C apple  
       'three boxes of apples'      'three apples'

Note that *ge*-substitution does not have the same status as the previous two tests. Logically, before it can be used as a test for C, the C/M distinction needs to be made valid first, and then *ge* needs to be independently proven to be C. Both premises should be uncontroversial at this point of discussion. The reader is welcome to run the previous two C/M distinction tests on *ge*. However, it has its limitations, as many nouns require specific classifiers and do not readily take *ge*, except perhaps in casual or even sloppy speech (e.g. Erbaugh 1986, Hu 1993). *Ge*-substitution thus may serve only as a heuristic for C and is formulated as follows.

#### Test C: *Ge*-substitution

Test: If [Num X N] = [Num *ge* N] semantically,  
 then X = C and X ≠ M.

### 3. Semantic characterization of the C/M distinction

Having established three reliable tests for the C/M distinction, we shall now attempt to crystallize the semantic distinction between C/M. C classifies or categorizes nouns by highlighting some salient or inherent properties of the noun and thus contributes no additional meaning. M, on the other hand, plays a substantive role in denoting the quantity of the entity named by the noun. In §3.2, we demonstrate that this distinction also implies that C is a closed set and M an open set.

#### 3.1 Aristotle and Kant

In *Metaphysics* Aristotle distinguishes between the essential features of a thing and its merely accidental features (Bostock 1994). Robertson (2008) offers this precise definition.

*P* is an *essential property* of an object *o* just in case it is necessary that *o* has *P* whereas *P* is an *accidental property* of an object *o* just in case *o* has *P* but it is possible that *o* lacks *P*.

This characterizes the C/M distinction perfectly. A classifier picks out an essential property of the entity the noun denotes; in other words, it does not impart any information to the noun that it does not already have. For example, having a tail is part of what necessarily makes a fish. Thus, in (26), the classifier 尾 *wei* and 魚 *yu* ‘fish’ are compatible in that the latter has a tail as an essential property. The classifier clearly adds no information to the phrase and merely identifies this essential property, tail.

- (26) 一 尾 魚  
       *yi wei yu*  
       one C fish  
       ‘one fish’

A measure word does just the opposite: it provides an additional property to the noun, a property that is accidental and thus not a necessary part of the entity denoted by the noun. In (27), the measure word 桶 *tong* ‘bucket’ thus furnishes additional information to the phrase, indicating that the fish are inside the bucket and mass the bucketful quantity, both accidental properties.

- (27) 一 桶 魚  
       *yi tong yu*  
       one bucket fish  
       ‘one bucket of fish’

Along this lineage of philosophizing, we further recruit the analytic/synthetic distinction, which Kant was the first to introduce in the Introduction to the *Critique of Pure Reason*, to illustrate the C/M distinction. Here is Kant’s definition, cited in Rey (2003), from which the examples are also obtained.

*Analytic proposition*: a proposition whose predicate concept is contained in its subject concept; e.g. *all bachelors are unmarried*.

*Synthetic proposition*: a proposition whose predicate concept is not contained in its subject concept; e.g. *all bachelors are happy*.

According to this distinction, what C contributes to the noun can only be paraphrased into an analytic proposition with the noun as subject and C itself as the predicate concept, while what M contributes can only be restated as a synthetic proposition. To illustrate, the C and M in (26) and (27) are now restated as (28) and (29), respectively.

- (28) The fish has a tail.  
 (29) The fish are in the bucket and fill the bucket.

Having a tail is an essential property of fish and this predicate concept is thus contained in the subject concept in (28), which is thus an analytic proposition. Being in a bucket or filling the bucket is an accidental property of the fish and is thus not contained in the subject concept of (29), which is therefore a synthetic proposition. The above two distinctions thus illuminate Adams & Conklin's (1973:2) insight that classifiers 'qualify rather than quantify the head noun' and also confirm W. Li's (2000:1117) insight that 'classifiers are semantically redundant'. Thus, C serves to classify or categorize nouns by highlighting certain properties inherent to the noun. C is therefore semantically null, or redundant, in the sense that it contributes no additional semantic value that the noun does not already have. M, on the other hand, serves as an integral part, together with the numeral, in the quantification of the noun. Consider the data in (30) and (31).

- (30) 五 個 餅 二 條 魚 = 五 餅 二 魚  
       wu ge bing er tiao yu      wu bing er yu  
       five C loaf two C fish      five loaf two fish  
       'five loaves and two fish'
- (31) 五 餅 二 魚 ≠ 五 箱 餅 二 箱 魚  
       wu bing er yu      wu xiang bing er xiang yu  
       five loaf two fish      five box loaf two box fish  
       'five loaves and two fish'      'five boxes of loaves and two boxes of fish'

The example refers to the familiar story of Jesus feeding five thousand people with five loaves and two fish, and is commonly referred to in Chinese simply as the story of 五餅二魚 *wu bing er yu* 'five loaves and two fish'. The fact that C, not M, can be dropped due to stylistic pressure attests to their semantic distinction: M contributes additional meaning to the noun; C does not. This semantic characterization thus also explains the C/M contrast in blocking numeral quantification and adjectival modification to the noun.

Having formulated three sets of reliable tests for the C/M distinction in §2, we can now give it a more precise semantic description. C refers to an essential property of the noun, which can be restated as the predicate concept in an analytic proposition with the noun as the subject concept; M refers to an accidental property of the noun in terms of quantity, which can be restated as the predicate concept in a synthetic proposition with the noun as the subject concept.

### 3.2 C a closed set versus M an open set

We have thus far demonstrated that C and M are similar in that syntactically they both serve as the required link between the numeral and the noun; however, semantically they are drastically different in that, while M contributes additional and unique value and thus serves as an integral part in the total semantic composition of the phrase, C does not. C is thus more of a functional device, while M is semantically substantive. C thus should constitute a closed set, like other grammatical devices, e.g. case markers, prepositions, etc., while M should be more of an open set.

Thus, C is resistant to innovations, while M is quite the opposite. As Adams & Conklin (1973) point out, ‘essentially anything can function as the unit of measurement’. This indicates that common nouns can easily function as measure words, e.g. 一屋子人 *yi wuzi ren* ‘a houseful of people’ and 一卡車垃圾 *yi kache lese* ‘a truckload of trash’. Many are created with body parts, e. g., 一肚子壞主意 *yi duzi huai zhuyi* ‘a stomachful of malicious intentions’, 一臉不悅 *yi lian buyue* ‘a faceful of displeasure’, and 一頭白髮 *yi tou bai fa* ‘a headful of gray hair’.<sup>19</sup> All these innovative or temporary uses of common nouns as measure words indicates that M is an open set. C, on the other hand, allows no such innovations. Thus, it is plausible to attempt a comprehensive inventory of C only, while such an effort for M is not meaningful.

## 4. Conclusion

It has been an ongoing debate as to whether classifiers can be meaningfully distinguished from measure words in Chinese. The two tests, i.e. *de*-insertion and adjectival modification, proposed previously by proponents of the C/M distinction have since been discredited and rejected by opponents. In this paper, we have first established

<sup>19</sup> An anonymous reviewer questioned if Test 3 of Test A (i.e. occurrence of antonyms) is used to distinguish M from C, then the fact that \*一黑頭白髮 *yi hei tou bai fa* ‘\*a black headful of gray hair’ is bad would mean 頭 *tou* here is C, not M as we claim. We thank the reviewer for this keen observation and note that, as pointed out earlier in the discussion of Test A: Adjectival Modification, the bare adjectives allowed for M are also strictly restricted to size, e.g. *da* ‘big’ and *xiao* ‘small’, and fullness or wholeness, e.g. *zheng* ‘whole’. Thus, the ill-formedness of \*一黑頭白髮 *yi hei tou bai fa* ‘\*a black headful of gray hair’ is due to the fact that 黑 *hei* ‘black’ is banned as a modifier to M (or C). In addition, the semantic incongruence is due to the fact that the actual color of the head is invisible as the head is covered by (gray) hair. So, \*一白頭白髮 *yi bai tou bai fa* ‘\*a gray headful of gray hair’ is likewise bad. We further note that 一整頭白髮 *yi zheng tou bai fa* ‘a complete headful of gray hair’ is much better and does have 4 tokens in Google Taiwan.

the relationship between the count/mass distinction in nouns and the C/M distinction and then re-examined the previous two tests more closely. Based on the insight that M is semantically substantive and C is semantically null and thus M—not C—blocks numeral quantification and adjectival modification to the noun, we have refined the previous two tests and come up with much more reliable and accurate formulations. Likewise, we have stated *ge*-substitution as a heuristic.

**Test A (revised): Numeral/Adjectival Stacking**

Test 1: If [Num **X** Num **Y** N] is well-formed, then  $X = M$ ,  $X \neq C$ , and  $Y = C/M$ .

Test 2: If [Num A **X** N] = [Num **X** A N] semantically, then  $X = C$  and  $X \neq M$ .

Test 3: Given antonyms  $A_1$  and  $A_2$ , if [Num  $A_1$  **X**  $A_2$  N] is semantically incongruent, then  $X = C$  and  $X \neq M$ ; otherwise,  $X = M$  and  $X \neq C$ .

**Test B (revised): *De*-insertion**

Test: [ $y_i$  **M**/\***C** *de* N]

**Test C: *Ge*-substitution**

Test: If [Num **X** N] = [Num ***ge*** N] semantically, then  $X = C$  and  $X \neq M$ .

In terms of semantics, we employ the Aristotelian distinction between essential and accidental properties as well as the Kantian distinction between analytic and synthetic propositions to characterize the C/M distinction. Precisely, C indicates an essential property of the noun, and can be paraphrased as the predicate concept in an analytic proposition with the noun as the subject concept; M indicates an accidental property in terms of quantity, and can be restated as the predicate concept in a synthetic proposition with the noun as the subject concept. Finally, given the above characterization, M can be demonstrated to be more of a content word, thus open to innovations, while C is more a function word, thus forms a closed set and is resistant to innovations.

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## 論華語中分類詞與量詞之語意區分

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分類詞與量詞是否能精準的區分一直存有爭議。贊成區分的學者所提出的兩個測試：「『的』插入法」與「形容詞修飾法」，已被證實缺乏準確性。本文深入檢視此二測試法，進而提出兩組精確且真實可靠之測試。並且運用亞里斯多德對於「本質特徵、偶然特徵」、以及康德對「分析命題、綜合命題」之區分，適切地描繪出「分類詞、量詞」之區辨。由於量詞具有實質之語義，因此阻絕了數詞及形容詞對名詞的修飾；相對的，分類詞僅彰顯名詞本身既有之某些語義特徵，並不貢獻任何額外的語義，因此數詞及形容詞可穿透分類詞而修飾名詞。

關鍵詞：類別詞，量詞，本質特徵，分析命題

## Structure of Classifiers and Measure Words: A Lexical Functional Account\*

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Previous accounts of the distribution of classifiers (C) and measure words (M) in Chinese [Num C/M N] include a uniform left-branching, right-branching, or split structure. This paper demonstrates that the left-branching structure best captures C/M's common properties—among others, they are unified mathematically as the multiplicand (*I* and  $\neg I$  respectively) — and also offers the simplest account of word order typology. By contrast, the right-branching and the split account both over-generate and under-generate. A formal account is offered within Lexical Functional Grammar. C/M share the same left-branching (constituent) c-structure but differ in (functional) f-structure, where C serves as a co-head of N, but M heads the QUANTIFIER function. The f-structure proposed reflects the insight that cognitively C, not M, serves to *profile* an essential feature of N, in the sense of Fillmore (1982), and also captures the selectional restrictions between C and N.

Key words: classifier, measure word, constituency, c-structure, f-structure, profile, multiplication

### 1. Introduction

Whether classifiers (C) and measure words (M) in a [Num C/M N] phrase in Chinese, as shown in (1) and (2) respectively, give rise to an identical syntactic structure or two different structures has been a rather contentious issue.

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- (1) a. 一百 尾 魚  
*yibai wei yu*  
 one hundred C fish  
 ‘one hundred fish’
- b. 三 根 香蕉  
*san gen xiangjiao*  
 three C banana  
 ‘three bananas’
- c. 十 匹 馬  
*shi pi ma*  
 ten C horse  
 ‘ten horses’
- (2) a. 一百 箱 魚  
*yibai xiang yu*  
 one hundred M-box fish  
 ‘one hundred boxes of fish’
- b. 三 公斤 香蕉  
*san gongjin xiangjiao*  
 three M-kilo banana  
 ‘three kilos of bananas’
- c. 一 群 馬  
*yi qun ma*  
 one M-herd horse  
 ‘one herd of horses’

Some studies assign C/M a unified structure, which some argue to be left-branching, or [[Num C/M] N], and others right-branching, or [Num [C/M N]]. Yet, in some syntactic accounts both structures are required for C/M. A consensus seems rather elusive. Contra syntax, a semantic distinction between C/M is nearly universally recognized. A well-cited example is Tai & Wang’s (1990:38) characterization:

A classifier categorizes a class of nouns by picking out some salient perceptual properties, either physically or functionally based, which are permanently associated with entities named by the class of nouns; a measure word does not categorize but denotes the quantity of the entity named by noun.

This paper aims to provide convincing evidence for C/M’s unified left-branching structure and render a formal account within the Lexical Functional Grammar (LFG).

The paper is organized as follows. Section 2 first summarizes the distinction between C/M from semantic, cognitive, and mathematical perspectives and then documents a set of consequential formal tests to distinguish between C/M. Section 3 then moves on to demonstrate that C/M share at least seven common properties in syntactic behavior. Section 4 consists of a succinct critical review of previous syntactic accounts. A formal LFG account is offered in §5, one that captures how C/M are different as well as what they have in common. Section 6 concludes the paper with a summary.

## 2. C/M distinctions

This section first documents how C/M are inherently different in §2.1 and then illustrates how these differences lead to observable phenomena in §2.2.

### 2.1 Semantic, mathematical, and cognitive distinctions between C/M

Her & Hsieh (2010) pinpoint the distinction between C/M with Aristotle's essential vs. accidental feature.

#### (3) Essential vs. Accidental Property

*P* is an *essential property* of an object *o* just in case it is necessary that *o* has *P* whereas *P* is an *accidental property* of an object *o* just in case *o* has *P* but it is possible that *o* lacks *P*. (Robertson 2008)

Thus, in (1a), the C 尾 *wei* and the N 魚 *yu* 'fish' are compatible in that having a tail is an essential property for fish. The classifier thus only highlights a certain inherent feature of N and provides no additional information to the phrase. A measure word, e.g. 箱 *xiang* 'box' in (2a), does provide additional information to the noun: the fish are inside the box and/or mass the boxful quantity, which is an accidental property of the N. Adams & Conklin's (1973:2) insight that C's *qualify* and M's *quantify* the head noun thus receives a precise interpretation. Her (to appear) further proposes that in set-theoretic terms this simply means that the properties denoted by C constitute a subset of those denoted by N, which is not true for M.

#### (4) C/M Distinction in Set-theoretic Terms (Her to appear)

Given a well-formed phrase [Num K N], *X* the set of properties denoted by K, and *Y* the set of properties denoted by N,  $K=C \text{ iff } X \subset Y$ ; otherwise,  $K=M$ .

Therefore, in (5), even though *fish*, *sheep*, *chicken*, *elephant*, and *germ* may each have very different semantic content, they are all inherently animate. That they can all share the same C 隻 *zhi* is because *zhi* precisely denotes animacy.

- (5) 三 隻 魚/羊/雞/大象/細菌  
*san zhi yu/yang/ji/daxiang/xijun*  
 three C fish/sheep/chicken/elephant/germ  
 ‘three fish/sheep/chickens/elephants/germs’

Thus, though C may be required syntactically, C is semantically redundant in [Num C/M N]; M is not.<sup>1</sup> As we shall see later, this difference is central to the various different behaviors that C/M display, one of which is mathematical. Integrating insights gained from the concepts of *parceler* (Landman 2004), *divider* (Borer 2005), and *multiplicand* (Au Yeung 2005, 2007), Her & Lai (to appear) and Her (to appear) propose that the relation between Num and C/M can be seen as *multiplier* and *multiplicand*.<sup>2</sup> Crucially, C/M are unified under the notion of *multiplicand* and yet with distinct values: C’s value is necessarily *1* and  $M \neq 1$ .

#### (6) C/M Distinction in Mathematics

[Num K N] = [Num  $\times$  k N], where  $K=C$  iff  $k=1$ , otherwise  $K=M$ .

Multiplication is a fundamental operation in the number system, which is strictly regular in Chinese and follows this nearly universal pattern  $[(n \times \text{base}) + m, \text{where } m < \text{base}]$  (Comrie 2006, 2011). In its 3000 years of recorded history, numbers in Chinese have consistently followed this pattern. A high number round figure, e.g. 九千 *jiu-qian* ‘9000’ and 六十 *liu-shi* ‘60’, employs the simple multiplication  $[n \times \text{base}]$ , e.g. [*jiu* ‘9’  $\times$  *qian* ‘1000’] and [*liu* ‘6’  $\times$  *shi* ‘10’]. In the [Num C/M N] sequence, [Num C/M] can likewise be viewed as a  $[n \times \text{base}]$ , or [*multiplier*  $\times$  *multiplicand*], operation, a natural extension of the number system (Au Yeung 2005, 2007, Her to appear). In (7), therefore, the C’s all have precisely the same mathematical value, *1*, though each characterizing a unique semantic aspect of the noun.

<sup>1</sup> A reviewer pointed out that while C is mathematically redundant, it may not be so syntactically or semantically, because C may be strictly required in certain contexts, e.g. *\*jibai yu* ‘several-hundred fish’ in Mandarin. However, note that *jibai (ge) ren* ‘several-hundred persons’ is perfectly acceptable. Also, in many classifier languages, C is optional. Among the 140 classifier languages reported in Gil (2011), a whopping 62 allow numeral classifiers to be optional.

<sup>2</sup> Using *san da meiguihua* or *three dozen roses* as an example, in the equation  $3 \times 12 = 36$ , 12 is the multiplicand, representing the number in a group, and 3 is the multiplier, referring to the number of groups.



- (7) a. 三 位 老師  
*san wei laoshi* ([3 × *l*] teacher)  
 three C teacher  
 ‘three teachers’
- b. 七 隻 老虎  
*qi zhi laohu* ([7 × *l*] tiger)  
 seven C tiger  
 ‘seven tigers’
- c. 十 顆 西瓜  
*shi ke xigua* ([10 × *l*] watermelon)  
 ten C watermelon  
 ‘ten watermelons’
- d. 八 輛 汽車  
*ba liang qiche* ([8 × *l*] car)  
 eight C car  
 ‘eight cars’

M’s value, on the other hand, is anything but *l*, thus  $\neg l$ . The possibilities of an M’s value are thus infinite, and the actual value can be numerical or non-numerical. In the case of it being numerical, it can denote a specific number, e.g. (8a-b), or it can designate an unspecified number, e.g. (9a-b).

- (8) a. 兩 打 玫瑰  
*liang da meigui* ([2 × *dozen*(=12)] rose)  
 two M-dozen rose  
 ‘two dozen roses’
- b. 三 雙 鞋  
*san shuang xie* ([3 × *pair*(=2)] shoe)  
 three M-pair shoe  
 ‘three pairs of shoes’
- (9) a. 一 群 野馬  
*yi qun yema* ([1 × *herd*(*n*=?)] wild-horse)  
 one M-herd wild-horse  
 ‘one herd of wild horses’
- b. 三 組 學生  
*san zu xuesheng* ([3 × *group*(*n*=?)] student)  
 three M-group student  
 ‘three groups of students’

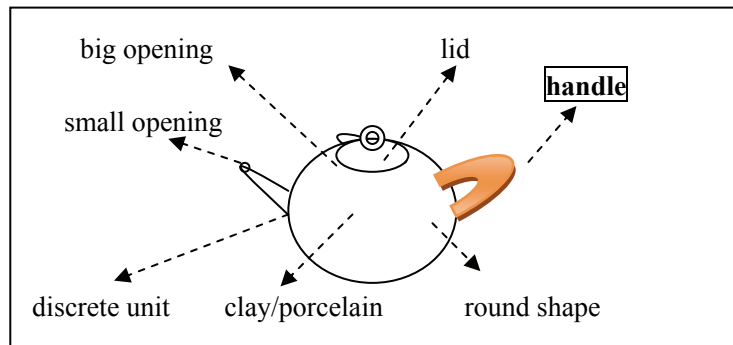
The actual value of an M can also be non-numerical, which can in turn be of a predetermined fixed value, such as standard measures, e.g. (10a-b), or it can be a non-determined variable value, e.g. (11a-b).

- (10) a. 四 公斤 鹽  
*si gongjin yan* ([4 × kilo] salt)  
 four M-kilo salt  
 ‘four kilos of salt’
- b. 三 碼 布  
*san ma bu* ([3 × yard] fabric)  
 three M-yard fabric  
 ‘three yards of fabric’
- (11) a. 四 箱 鹽  
*si xiang yan* ([4 × box] salt)  
 four M-box salt  
 ‘four boxes of salt’
- b. 三 堆 布  
*san dui bu* ([3 × pile] fabric)  
 three M-pile fabric  
 ‘three piles of fabric’

This mathematical distinction of *I* versus  $\neg I$  between C/M reflects M’s ‘opacity’ and C’s ‘transparency’ (see §2.2), as the multiplicand is vacuous when it has precisely the value of *I*, but it is substantive otherwise. C/M thus share this important common property, i.e. being the multiplicand, and yet differ crucially in their values. This is why C/M share some common behaviors but also differ in significant ways.

Finally, though C/M share the cognitive function as a divider (Borer 2005) or parceler (Landman 2004) for the noun, C uniquely serves the function as a profiler, in the sense of Fillmore (1982) and Langacker (1987), and highlights a certain inherent semantic feature of the noun (Hsieh 2009, Her & Lai to appear, Her & Hsieh 2011). Take (12) for example.

- (12) 一 把 壺  
*yi ba hu*  
 one C<sub>(handle)</sub> teapot  
 ‘one teapot’



**Figure 1: N as Frame and C as Profile**

Figure 1 shows schematically that N *pot* provides the frame, where having a handle is an inherent feature, which is profiled by C *ba*.<sup>3</sup> This view explains why C, as a mathematically vacuous element, is needed for a cognitively-motivated linguistic function. The many C's in a classifier language thus represent the many ways to profile the multiplicand *I* in the language (Greenberg 1990a:172, Her & Lai to appear). Since a C can only profile a feature that the noun inherently possesses, this view also explains quite naturally why each C selects its class of nouns. Different languages can thus have different ways to profile this multiplicand *I*, and therefore different ways to classify nouns. In fact, within the same language, the same noun may have more than one profilable feature. For example, *teapot* can also co-occur with the general classifier *ge*, as in *yi ge hu* (1 C teapot). In the case of a general classifier, it profiles the discreteness of the entity and thus selects nouns that are countable.

## 2.2 C/M's differences in behavior

This subsection first illustrates the different behaviors that C/M display, which, as revealed by Her & Hsieh (2010) and Her (to appear), is due to the semantic distinction between C/M in [Num C/M N], where C is redundant and M substantive.

<sup>3</sup> A reviewer pointed out that this analysis fails to account for *ba* in such examples as 一把鼻涕、一把眼淚 *yi ba biti, yi ba yanlei* (one handful nasal-mucus, one handful tear) 'a handful of nasal-mucus and a handful of tears', indicating some serious crying and sobbing. Note, however, as noted by many researchers (e.g. Her & Lai to appear), certain lexemes may function as a C and an M, *ba* being a good example. The two instances above involve *ba* as an M, meaning *handful*, not a C profiling the *handle*. The reviewer is correct, nonetheless, in suggesting that both cases should find origin in the verbal meaning of *hold* in Archaic Chinese.

First of all, C/M differ crucially in several scope phenomena, as first observed in Her & Hsieh (2010), H&H hereafter, and Zhang (2011). The first observation relates to the scope of adjectival modification. Though the bare adjectives allowed on C/M are rather restricted to size and length, when allowed, the adjective scopes over C as well as N, but modifies M only. This contrast is shown in (13).<sup>4</sup>

- (13) a. 一 大 箱 蘋果 ≠ 一 箱 大 蘋果 (H&H 13a)  
*yi da xiang pingguo yi xiang da pingguo*  
 one big M-box apple one M-box big apple  
 ‘one big box of apples’ ‘one box of big apples’
- b. 一 大 顆 蘋果 = 一 顆 大 蘋果 (H&H 13b)  
*yi da ke pingguo yi ke da pingguo*  
 one big C apple one C big apple  
 ‘one big apple’ ‘one big apple’

Consequent of this scope phenomenon, a C modifier and an N modifier must be compatible, as shown in (14), while an M modifier and an N modifier can be contradictory, as shown in (15).

- (14) a. #一 大 顆 小 蘋果 (H&H 15a)  
*yi da C xiao pingguo*  
 one big C small apple
- b. #大大的 一 顆 小 蘋果 (H&H 15b)  
*dadade yi ke xiao pingguo*  
 big one C small apple
- c. #大大的 一 顆 小小的 蘋果  
*dadade yi ke xiaoxiaode pingguo*  
 big one C small apple
- (15) a. 一 大 箱 小 蘋果 (H&H 14a)  
*yi da xiang xiao pingguo*  
 one big M-box small apple  
 ‘one big box of small apples’

<sup>4</sup> A reviewer questioned why 一手冰啤酒 *yi shou bing piji* (1 six cold beer) ‘a six-pack of cold beer’ is good but \*一冰手啤酒 *yi bing shou piji* (1 cold six beer) is bad. First of all, here 手 *shou* has the precise value of 6, similar to the value of 2 of 雙 *shuang* ‘pair’ and 12 of 打 *da* ‘dozen’. All three are thus M. As pointed out by many researchers (e.g. H&H, Zhang 2011), the adjectives allowed to modify C/M are highly restricted, usually to the ones related to size or length.

- b. 大大的 一 箱 小 蘋果 (H&H 14b)

*dadade yi xiang xiao pingguo*  
big one M-box small apple  
'one big box of small apples'

- c. 大大的 一 箱 小小的 蘋果

*dadade yi xiang xiaoxiaode pingguo*  
big one M-box small apple  
'one big box of small apples'

In (15), all three phrases are semantically congruent, as the box is big and the apples are small. Yet, (14) differs in having a C and all three phrases are incongruent, as the apples cannot be big and small at the same time. Note that Zhang (2011) makes the same observation independently. In addition, Her (to appear) has discovered several other syntactic contexts where this very difference in adjectival scope between C/M is displayed. For our purpose in this paper, it is quite sufficient to have demonstrated this difference in one of the environments.

The other type of scope phenomena relates to Num's scope of quantification. This scope goes beyond C and includes N, referring to the cardinality of a set of N. Yet, Num does not scope over N if followed by an M and thus quantifies M only. This is demonstrated by the fact that C, in an appropriate context, can be omitted, but not M. Thus, the Biblical story of Jesus' performing a miracle with 'five loaves of bread and two fishes' is preferably referred to as (16), whose meaning is identical to (17), where the missing C's are all overtly filled. Again, the omission of C is possible because it is semantically redundant as a profiler and mathematically null as the multiplicand *I*.

- (16) 五 餅 二 魚 餵飽 五千 人  
*wu bing er yu weibao wuqian ren*

five loaf two fish feed-full five thousand person

'Five thousand people were fed with five loaves and two fish.'

- (17) 五 張 餅 二 條 魚 餵飽 五千 個人  
*wu zhang bing er tiao yu weibao wuqian ge ren*

five C loaf two C fish feed-full five thousand C person

'Five thousand people were fed with five loaves and two fish.'

To summarize, C/M differ only in terms of scope phenomena. Metaphorically, C is *transparent* in that numerals and pre-C adjectives scope over C as well as N; M is *opaque* and numerals and pre-M adjectives only scope over M, not N. H&H attribute this difference to C's being semantically redundant and M substantive in [Num C/M N].

Her (to appear) further attributes this transparent property of C to the fact that, as the multiplicand of Num, C has the precise value of *1* and is thus vacuous and optional. M, on the other hand, has a value other than *1* and therefore cannot be omitted. We shall see in section 3 that C/M otherwise behave quite similarly.

### 3. C/M similarities

Other than the differences documented above, C/M behave the same and share at least seven common properties.

#### 3.1 C/M are mutually exclusive

The first observation is rather obvious, i.e. C/M occupy the same position in [Num C/M N], and, as shown in (18), are mutually exclusive.

- (18) a. \*一 箱 本 書  
           *yi xiang ben shu*  
           one M-box C book
- b. \*一 本 箱 書  
           *yi ben xiang shu*  
           one C M-box book

This suggests that C/M belong to the same category. However, one might suggest that C/M's mutual exclusivity is due to semantic incompatibility. For example, in Krifka's (1995, 2003) system, the difference between English and Chinese is that in English a numeral combines directly with N, which in effect has a 'built-in' C, reflected via plural inflection. In Chinese, the combination of a C/M with N requires a numeral as its sister for the sake of compositional semantics. Thus, (18) can be ruled out on the ground that a C/M is not combined with a numeral. This theory thus dictates that a numeral combine with an overt C/M or with an N marked for plural morphology. Yet, there are attested languages with no C's, nor plurality marking, e.g. the Athapaskan language Dene Suline in central Canada (Wilhelm 2008) and Archaic Chinese (e.g. Norman 1988:120). Also, as seen in the example of (16) in §2.2, C is in fact not strictly required in Modern Chinese. Furthermore, as we shall see momentarily in this section, another C/M common property is that Num can also be elided in Chinese, thus [~~Num~~ C/M N], when its value is precisely *1*. Thus, C/M's mutual exclusivity cannot be attributed to semantic incompatibility.

To demonstrate that C and M are semantically compatible, we first need to point out again the same multiplication operation in high round numbers, e.g. 三百 *sanbai*

‘300’ involves  $[n \times \text{base}]$ , where 3 is the multiplier and *bai* ‘hundred’ the multiplicand, and the [Num C/M] sequence, which can likewise be viewed as a  $[n \times \text{base}]$ , or  $[\text{multiplier} \times \text{multiplicand}]$ , operation. This simple math in C/M is seen in (19a-b).

- (19) a. 三 朵 玫瑰  
*san duo meigui* (3  $\times 1$  rose)  
 three C rose  
 ‘three roses’
- b. 三 打 玫瑰  
*san da meigui* (3  $\times 12$  rose)  
 three M-dozen rose  
 ‘three dozen roses’
- (20) a. 三百 朵 玫瑰  
*san-bai duo meigui* (300  $\times 1$  rose, or 3  $\times 100 \times 1$  rose)  
 three hundred C rose  
 ‘three hundred roses’
- b. \*三 打 朵 玫瑰  
*san da duo meigui* (3  $\times 12 \times 1$  rose)  
 three M-dozen C rose  
 (Intended) ‘three dozen roses’

Note, however, in (20a), there are two ways to conceive the multiplication relation, that is, 三百 *sanbai* ‘300’ can be seen either as a single number or as a  $[3 \times \text{bai}]$  sequence. This latter interpretation has the same semantic and mathematic structure as that of (20b), where the only difference is the replacement of *bai* ‘hundred’ with *da* ‘dozen’. And yet, (20a) is good, which yields the interpretation *300 roses* or *3 sets of 100 roses*, but (20b) is bad, which yields the interpretation *3 sets of 12 roses* or *36 roses*. Given that both *bai* ‘hundred’ with *da* ‘dozen’ are similar semantically and mathematically in that they both denote a precise numerical value, the ill-formedness of (20b) can thus only be attributed to the fact that *bai* ‘hundred’ belongs to the category Num, *da* ‘dozen’ the category C/M. This restriction against C/M appearing in the same slot is therefore purely formal. C/M are thus of the same syntactic category.

### 3.2 Both C/M allow N ellipsis

Second, C/M are identical in allowing N ellipsis, thus [Num C/M  $\mathbb{N}$ ], when N is recoverable from discourse. We shall discuss this construction in more detail in §5.

- (21) a. 他有三箱書，我有三本  
*ta you san xiang shu wo you san ben*  
 he have three M-box book I have three C  
 ‘He has three boxes of books, I have three (books).’  
 b. 他有三本書，我有三箱  
*ta you san ben shu wo you san xiang*  
 he have three C book I have three M-box  
 ‘He has three books, I have three boxes (of books).’

### 3.3 Both C/M allow ellipsis

Third, C/M are also identical in allowing themselves to be elided, thus [Num C/M N], as long as N and C/M are both recoverable from discourse and Num is a high number round figure.

- (22) a. 他有一百本書，我有三百  
*ta you yibai ben shu wo you sanbai*  
 he have one hundred C book I have **three hundred**  
 ‘He has one hundred books, I have three hundred.’  
 b. \*他有一百本書，我有三  
*ta you yibai ben shu wo you san*  
 he have one hundred C book I have **three**  
 ‘He has one hundred books, I have three.’  
 (23) a. 他有一百箱書，我有三百  
*ta you yibai xiang shu wo you sanbai*  
 he have one hundred M-box book I have **three hundred**  
 ‘He has one hundred boxes of books, I have three hundred (boxes of books).’  
 b. \*他有一百箱書，我有三  
*ta you yibai xiang shu wo you san*  
 he have one hundred M-box book I have **three**  
 ‘He has one hundred boxes of books, I have three (boxes of books).’

In a corpus-based study by Paris & Vinet (2010), the approximative 左右 *zuoyou* ‘around, about’ also prefers to follow larger round figures. Indeed, the acceptability of the well-formed examples in (22)-(23) can be further increased with *zuoyou* added at the end. However, the ill-formed examples cannot be rescued at all. The identical underlying multiplication in high number round figures and [Num C/M] provides a



logical explanation. 三百 *sanbai* ‘300’, for example, involves [ $3 \times bai$ ], where *bai* serves as the base, or multiplicand; likewise, 三百本 *sanbai ben* ‘300 C’ and 三百箱 *sanbai xiang* ‘300 boxes’ involve [ $300 \times ben/xiang$ ], where *ben* and *xiang* also serve as the base, or multiplicand. Thus, a discursively recoverable C/M can be elided as long as the remaining Num itself is analyzable as the [ $n \times base$ ] structure, thus resembling the [Num C/M] structure. A more clear illustration of this parallel structure between the base in a high number round figure and the C/M in [Num C/M] is given in (24). In (24a), only Num 三百 *sanbai* ‘300’ remains, with C/M and N elided, while in (24b), only N is elided, and Num and C/M remain. What makes the remaining Num 三百 *sanbai* ‘300’ in (24a) acceptable is its internal structure of [ $3 \times bai$ ], which resembles the structure of [ $3 \times da$ ] in (24b).

- (24) a. 他 有 一百 朵 玫瑰, 我 有 三百  
*ta you yibai duo meigui wo you sanbai*  
 he have one hundred C rose I have **three hundred**  
 ‘He has one hundred roses, I have three hundred.’
- b. 他 有 一百 朵 玫瑰, 我 有 三 打  
*ta you yibai duo meigui wo you san da*  
 he have one hundred C rose I have **three dozen**  
 ‘He has one hundred roses, I have three dozen.’

### 3.4 Both C/M allow *-de* insertion

Fourth, C/M are alike in allowing *-de* to intervene, and thus [Num C/M-*de* N] is well-formed. Previously, it has been repeatedly claimed that *de* may be optionally inserted after M but not C (e.g. Chao 1968:555, Paris 1981:32, Zhu 1982:51, Tai & Wang 1990, Tai 1994, Cheng & Sybesma 1998:388, 1999:515). Cheng & Sybesma (1998, 1999) further argue that this distinction is related to the count/mass distinction, and thus the distinction between partitives versus pseudo-partitives (e.g. Selkirk 1977, Jackendoff 1977). Specifically, M allows *-de* because it refers to an amount of some substance, expressed thus by a mass noun, while C disallows *-de* because it refers to a part or subset of a superset, which can be expressed only by a count noun. However, as noted by Tang (2005), Hsieh (2008), Li (2011), Li & Rothstein (2012), and Zhang (2011), and also demonstrated most convincingly by H&H, C/M differ little in this regard.<sup>5</sup> This fact varies little among dialects within Mandarin Chinese, as some of the

<sup>5</sup> Li (2011) and Li & Rothstein (2012), observing that C/M both allow *-de* but C requires a high number round figure or an approximative, attributes the counting versus measuring function, thus the partitive versus pseudo-partitive distinction, to two different structures of [Num C/M

above dissenting researchers are from China, and the others from Taiwan. The two examples in (25) are from the Sinica Corpus, cited in Hsieh (2008).

- (25) a. 五百萬 隻 的 鴨子  
*wubaiwan zhi de yazi*  
 five-million C DE duck  
 ‘five million ducks’
- b. 幾百 條 的 海蛇  
*jibai tiao de haishe*  
 several-hundred C DE sea-snake  
 ‘some hundreds of sea snakes’

Examples in (26) and (27) are all from Google searches within the Taiwan domain (.tw), cited in H&H; 70 instances of 之一顆的 *zhiyi ke de* ‘one fraction of’ were found, two of which are listed in (26). The two examples in (27) gave 13 and 9 exact matches, respectively.

- (26) a. 八分之一 顆 的 高麗菜  
*bafenzhiyi ke de gaolicai*  
 one-eighth C DE cabbage  
 ‘one-eighth cabbage’
- b. 四分之一 顆 的 洋蔥  
*sifenzhiyi ke de yangcong*  
 one-fourth C DE onion  
 ‘one-fourth onion’
- (27) a. 一 大 顆 的 高麗菜  
*yi da ke de gaolicai*  
 one big C DE cabbage  
 ‘one big cabbage’
- b. 一 大 條 的 魚  
*yi da tiao de yu*  
 one big C DE fish  
 ‘one big fish’

---

Num], the former right-branching, and the latter left-branching, thus a split analysis. However, H&H demonstrate that it is the computational complexity of the Num or the N that affects the acceptability of *C-de* (i.e. the more complex, the more acceptable *C-de*) and instead attributes this property to the conceptual closeness between C and N. Section 5 of this paper argues against the right-branching structure, and thus also against the split analysis.

H&H thus observe a close correlation between the acceptability of *-de* insertion and the computational complexity of Num and/or C, as shown in the examples of (26)-(27), a factor more related to processing than to grammar itself, and further claim that other than this, there is little difference between C/M in terms of *-de* insertion.

### 3.5 Both C/M allow Num ellipsis, if Num = 1

Fifth, interestingly, Num can also be elided, thus [~~Num~~ C/M N], when its value is precisely 1. Again, C/M behave the same. This makes perfect sense mathematically, as  $(n \times m) = m$ , if  $n = 1$ . The multiplier 1 can thus be omitted. Again, C/M behave the same in this regard. This property is similar to the omission of C, as the underlying multiplication in [Num C] is  $[n \times I]$ , where the multiplicand 1 can be omitted.<sup>6</sup>

- (28) a. 這 (一) 本/箱 書  
           *zhe (yi) ben/xiang shu*  
           the one C/M-box book  
           ‘This one book/box of books’
- b. 他 買了 (一) 本/箱 書  
           *ta mai-le (yi) ben/xiang shu*  
           he buy-ASP one C/M-box book  
           ‘He bought one book/box of books.’

### 3.6 In [Num C/M N], N is the head

The sixth common property is that N is the head in [Num C/M N]. C/M do not differ. One indication comes from selectional restrictions imposed by the verb.

- (29) a. 這 三 條/尾 魚 都 還 活著， 你 想 養 嗎？  
           *zhe san tiao/wei yu dou hai huozhe ni xiang yang ma*  
           the three C/C fish all still alive-ASP you want raise Q  
           ‘The three fish are all still alive, so do you want to raise them?’
- b. 這 三 公斤/箱 魚 都 還 活著， 你 想 養 嗎？  
           *zhe san gongjin/xiang yu dou hai huozhe ni xiang yang ma*  
           the three kilo/M-box fish all still alive-ASP you want raise Q  
           ‘The three kilos/boxes of fish are all still alive, so do you want to raise them?’

<sup>6</sup> According to Cheng & Sybesma (2005), besides Mandarin, Cantonese and Wu also allow bare [C/M N] phrases, but Min does not.

In (29a) and (29b) alike, *fish* is an appropriate subject for the predicate *alive* and likewise an appropriate object for the verb *raise*. C/M thus make no difference in having N as the head of the nominal phrase.

### 3.7 Both C/M allow *ban* ‘half’ and *duo* ‘more’ to follow

The seventh property is that C/M both allow *ban* ‘half’ and *duo* ‘more’ to follow. Pay close attention to the meaning of (30a) and (30b). In the preferred reading of (30a), *ban* ‘half’ is interpreted in reference to the preceding C *ge*, not the following *xiaoshi* ‘hour’; hence, the total time is not  $[2 \times 1/2 \text{ hour}]$ , but rather  $[[2 \times 1 \text{ (hour)}] + 1/2 \text{ hour}]$ . Likewise, in (30b), *duo* ‘more’ is interpreted in reference to the preceding M *da* ‘dozen’, not the following *meigui* ‘rose’; hence, the total roses are more than six dozens but less than seven dozens. This construction thus reveals that [Num C/M *ban/duo*] together as a constituent function as the quantifier (Hsieh 2008:45-46).

- (30) a. 兩 個 半 小時  
           *liang ge ban xiaoshi*  
           two C half hour  
           ‘two and half hours’
- b. 六 打 多 玫瑰  
           *liu da duo meigui*  
           six M-dozen more rose  
           ‘six dozens of roses and more’

To summarize the discussions in §3, other than the scope phenomena described in §2.2, C/M behave the same: they occupy the same position in [Num C/M N], where N is the head, and allow the same ellipsis, *-de* insertion, and *ban* ‘half’ and *duo* ‘more’ to follow. As we shall see in §4, these similarities are instrumental to the correct syntactic configuration of the [Num C/M N] phrase.

## 4. Previous syntactic analyses

There are two crucial aspects in the syntactic analysis of [Num C/M N]. The first is whether C/M form a constituent with Num or N first; the former projects a left-branching structure and the latter a right-branching structure. The second aspect is whether C/M share the same left- or right-branching structure. Thus, in this paper we shall largely ignore the intricate details in the analyses previously proposed and will focus on the directions of branching of the structures and whether C/M share the same direction of

branching. Therefore, if an account has C/M generated in two different positions but with the same direction of branching, it is taken to be a unified account. A split account is one that assigns C/M two branching directions.

Given the fact that C/M behave similarly and differently at the same time, there is little wonder that there is no consensus in the literature as to the correct syntactic configuration of the [Num C/M N] phrase. A bias towards the similarities naturally leads to a unified analysis, and otherwise a split analysis. §4.1 presents the unified approach and critically examines its pros and cons, and §4.2 does the same with the split analysis. An LFG alternative is proposed in §5.

#### 4.1 Unified Analyses

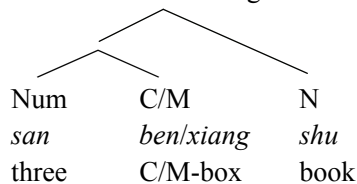
Again, details aside, an account that assigns C/M the same direction of branching is considered a unified account here. Whether it is unified left- or right-branching, each has its advantages and disadvantages.

##### Unified left-branching

The unified left-branching account, where the numeral and C/M form an exclusive constituent, as shown schematically in (31), enjoys a long history, one that has the early support by Greenberg in his seminal work (1990b).

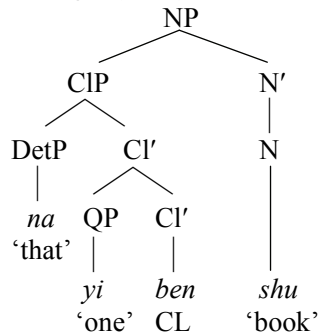
There are many indications that in the tripartite construction consisting of quantifier (Q), classifier (Cl), and head noun (N), *Q is in direct construction with Cl* and this complex construction, which will be called the classifier phrase, is in turn in construction with N. (Greenberg 1990b:227, *emphasis added*)

##### (31) Unified left-branching structure

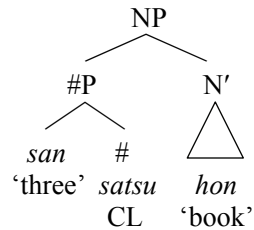


Over the decades, this account has been widely accepted, e.g. Li & Thompson (1981:105), Paris (1981:105-117), Huang (1982), Tang (1990), Croft (1994:151), Lin (1997:419), and Hsieh (2008). In his seminal work on Chinese phrase structure, Huang (1982) posits (32) as a unified analysis for C/M. Fukui & Takano (2000) also propose a similar structure for Japanese C/M, shown in (33).

- (32) Huang's (1982) unified left-branching account for Chinese

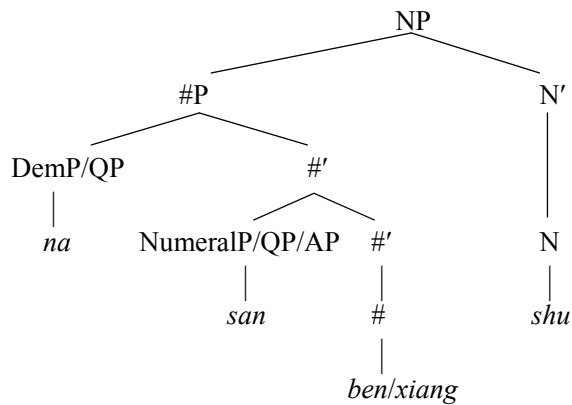


- (33) Fukui & Takano's (2000) unified left-branching account for Japanese



The most recent endorsement for the unified left-branching account is from Hsieh (2008), in her book dedicated to the study of the Chinese NP. In (34), an example is given to illustrate Hsieh's (2008) unified account.

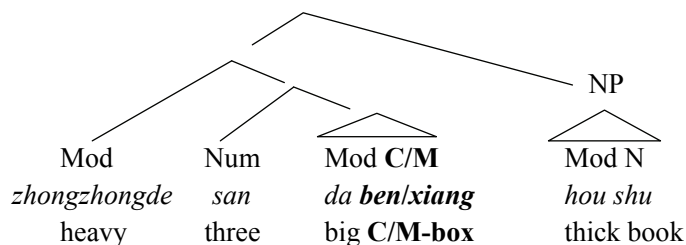
- (34) 那 三 本/箱 書  
*na san ben/xiang shu*  
 that three C/M-box book



All unified accounts enjoy the obvious advantage that all the common properties documented in detail in §3 that C/M share only need to be stated once. Yet, a unified left-branching account, in particular, has the advantage over the right-branching counterpart in that it captures the parallel mathematical structure, i.e.  $[n \times base]$ , between the constituent of a high number round figure Num and the constituent of [Num C/M]. However, as Zhang (2011) aptly points out, this account generalizes that all pre-C/M modifiers and Num scope over C/M only, not N, as shown in (35).

(35) Unified left-branching structure

- a. 重重的      三      大      本      厚      書  
*zhongzhongde san da ben hou shu*  
 heavy      three big C      thick book  
 ‘three heavy big thick books’
- b. 重重的      三      大      箱      厚      書  
*zhongzhongde san da xiang hou shu*  
 heavy      three big M-box thick book  
 ‘three heavy big boxes of thick books’

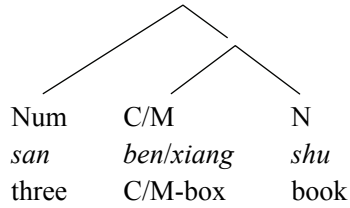


As seen in §2.2, pre-C adjectives and Num must scope over C as well as N. Yet, in (35), the modifiers *heavy* and *big* do not c-command N and thus cannot scope over N. Likewise, Num also does not c-command NP and thus also does not scope over N.

### Unified right-branching

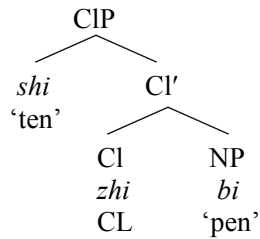
On the flip side, many of the more recent formalist studies on this subject favor a unified right-branching analysis, as shown schematically in (36), e.g. Tang (1990:413, 2005), Cheng & Sybesma (1998, 1999), Borer (2005), Watanabe (2006), Zhang (2009), among others.

(36) Unified right-branching structure

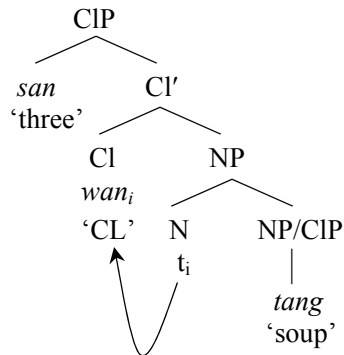


Cheng & Sybesma (1998, 1999), for example, propose that C is base-generated as the head of CIP, as in (37a), while M, as shown in (37b), only moves to C from its original lower position. Movement put aside, both C/M form a constituent with N first, excluding Num.

- (37) a. 十 枝 筆  
*shi zhi bi*  
 ten C pen

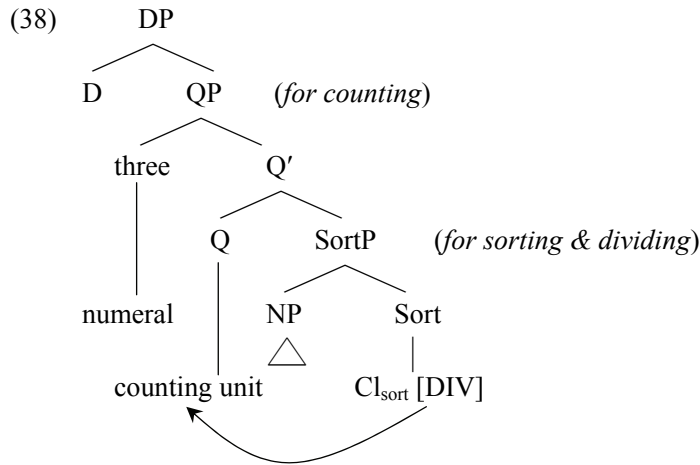


- b. 三 碗 湯  
*san wan tang*  
 three M-bowl soup

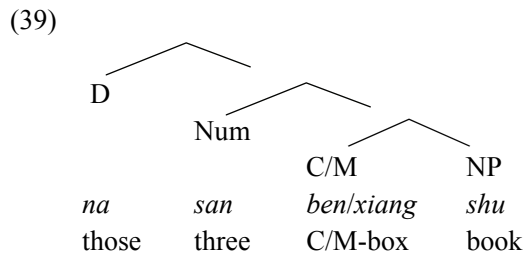




Zhang (2009), on the other hand, contends that C is base-generated as the head of a SortP, with a preceding NP as its complement, and moves up to Q, where M is base-generated. This account is shown in (38). Again, details aside, both C/M form a constituent with N first, excluding Num.



Tang (2005), in contrast, has both C and M straightforwardly base-generated as the head of ClP, or classifier phrase, with no movement involved.



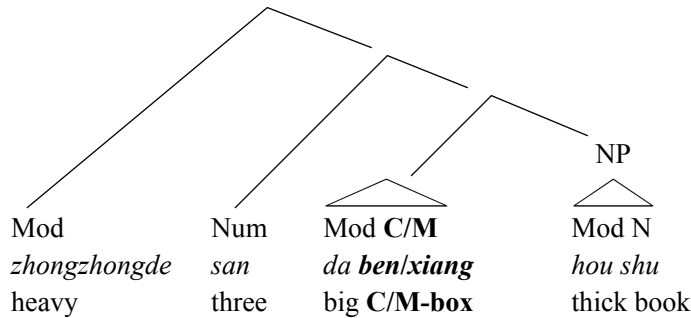
Borer (2005) proposes that Chinese C parallels English plurality marker *-s* and functions as a mass *divider* that affords the noun a count interpretation in the structure in (40a). M, on the other hand, parallels English measure phrases and has the structure in (40b), possibly as the head of #<sup>max</sup>.

- (40) a. (DP  
D)  $\begin{array}{c} \text{three}^2 \\ \text{#}^{\text{max}} \\ \text{#} \\ \text{<e}^2\text{>#} \quad \text{CL}^{\text{max}} \\ \left\{ \begin{array}{c} \text{ge}^3 \\ \text{'piece'} \\ \text{<div>}^3 \end{array} \right\} \quad \text{<e}^3\text{>DIV} \quad \left\{ \begin{array}{c} \text{N}^{\text{max}} \\ \text{ren} \\ \text{'person'} \\ \text{cat} \end{array} \right\} \end{array}$
- b. (DP  
D)  $\begin{array}{c} \text{henduo}^2 \\ \text{much} \\ \text{#}^{\text{max}} \\ \text{#} \\ \text{<e}^2\text{>#} \quad \text{N} \\ \text{qian} \\ \text{money} \end{array}$

In spite of Borer's (2005) claim that lexically all nouns in all languages are mass by default and the two different structures assigned to C/M, C/M behave the same in forming a constituent with N first, excluding Num. Like the unified left-branching accounts, these unified right-branching accounts have the advantage that all the common properties documented in detail in §3 that C/M share only need to be stated once. However, like the unified left-branching account, the unified right-branching account also generalizes the scope of a pre-C/M adjective and the quantification scope of Num (Zhang 2011).

(41) Unified right-branching structure

- a. 重重的      三      大      本      厚      書  
*zhongzhongde san da ben hou shu*  
 heavy      three big C      thick book  
 'three heavy big thick books'
- b. 重重的      三      大      箱      厚      書  
*zhongzhongde san da xiang hou shu*  
 heavy      three big M-box      thick book  
 'three heavy big boxes of thick books'



The structure in (41) shows that all pre-C/M modifiers and Num c-command C/M as well as N and thus scope over C/M as well as N, if C/M are assumed to be functional. Yet, if C/M are assumed to be lexical, then pre-C/M modifiers and Num only scope over C/M, but not N. This is a dilemma given that, as seen in §2.2, pre-M numerals and pre-M adjectives scope over M, but not N.

Zhang (2011) thus also rejects the right-branching account, which treats C/M uniformly. Yet, a possible solution to this dilemma is found in Vos (1999) and van Riemsdijk (1998), where it is assumed that M is lexical and thus opaque blocking modification and quantification to scope over N, while C is semi-lexical, thus more functional than purely lexical items such as M, and is therefore transparent. This is similar to Kubo's (1996) proposal to distinguish syntactic, semantic, and cognitive elements in grammar, and to view M as semantic and C as cognitive. Her & Hsieh (2010) likewise point out that C is a closed set and M an open set in Chinese, corresponding to a functional category and a lexical category respectively. Note that in the left-branching structure of (35), C, being semi-lexical and thus transparent, still does not allow the non-c-commanding adjectives and Num to scope over N. The right-branching account, therefore, fares better than the left-branching counterpart in relation to C/M differences in scope phenomena. However, in §5.1 we shall see that the left-branching account fares better in capturing C/M's common behaviors and that there are also other good reasons from word order typology to reject the right-branching account. An ultimate LFG solution is then offered in §5.2, which also takes advantage of the insight that C is less lexical and more functional than M.

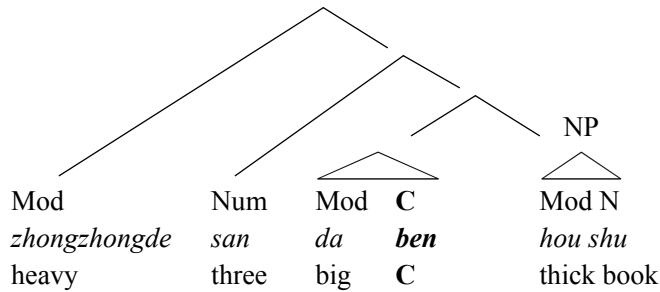
## 4.2 A split analysis

Having considered the advantages and disadvantages of the unified accounts, Zhang (2011) concludes that a split analysis is the best solution, where C appears in a right-branching structure, as in (42a), and M a left-branching structure, as in (42b).

(42) Split Analysis (Zhang 1011)

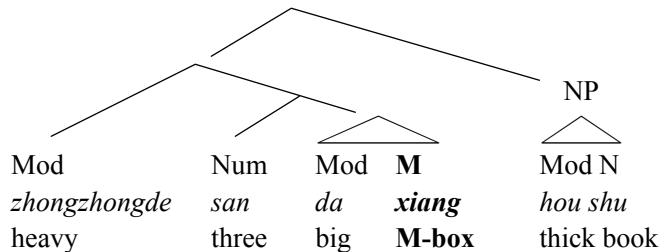
a. **Right-branching for C**

重重的      三    大    本    厚    書  
*zhongzhongde san da ben hou shu*  
 heavy      three big C    thick book  
 ‘three heavy big thick books’



b. **Left-branching for M**

重重的      三    大    箱    厚    書  
*zhongzhongde san da xiang hou shu*  
 heavy      three big M-box    thick book  
 ‘three heavy big boxes of thick books’



The obvious advantage of the split analysis is that it nicely captures how C and M differ in scope phenomena. On the other hand, its biggest disadvantage is precisely that it is a split analysis. A unified account is simpler and is thus always preferred, everything else being equal.

Out of the seven properties that C/M share, the first property documented in §3 is that C/M seem to be mutually exclusive and thus seem to occupy the same position. (42a) and (42b) fail to capture this.

The second property is that N can be elided in [Num C/M N]. Amongst the studies that propose a right-branching analysis for C, it is assumed that the classifier heads its own projection (Saito et al. 2008); thus, in (42a), the elided NP is the complement of C. Yet, in (42b), N is the head of the entire phrase. A generalization cannot be made.

The third property is C/M and N can both be elided if Num is a high number and a round figure, e.g. 100 or 300. Again, C/M in (42a) and (42b) respectively do not enter a uniform relation with N and thus a single generalization likewise cannot be made of how C/M can both be elided together with N.

The fourth property is that C/M are alike in allowing *-de*, thus [Num C/M-*de* N]. Again, C/M do not enter the same relation with N and thus a single generalization cannot be made.

The fifth property is that C/M behave similarly in allowing Num to be optional if Num is *one*. Since in both (42a) and (42b) Num c-commands C and M, a single generalization can be made.

The sixth property is that, in terms of selectional restrictions imposed by a verb on the phrase [Num C/M N], N is the head regardless of the preceding C/M. Yet, while in (42b), N is the head; in (42a) C is the head, not N, which is C's complement.

Finally, the seventh property, that both C/M allow *ban* 'half' and *duo* 'more' to follow, also cannot be generalized across C/M in the split analysis.

Fundamentally, the split analysis fails to capture the uniform mathematical structure between Num and C/M, i.e. multiplier and multiplicand, an insight reflected only by (42b), not (42a). In §5, we shall indeed argue for a uniform c-structure, or constituent structure, based on the left-branching (42b).

## 5. An LFG account

With the three possible accounts more or less rejected, the focus in this section is a solution to the syntactic structure of [Num C/M N] within the Lexical Functional Grammar (LFG) (cf. Bresnan 2001, Falk 2001). An essential theoretic assumption of LFG is that the semantic argument structure (a-structure), the relational structure of grammatical functions (or f-structure), and the configurational structure of phrasal constituents (c-structure), are all parallel autonomous planes of grammatical organization related by local structural correspondences, in the same way that the melody of a song relates to its lyrics (e.g. Bresnan & Kanerva 1989). In §5.1, a unified c-structure will be proposed to account for C/M similarities and a split f-structure analysis is proposed in §5.2 due to C/M differences.

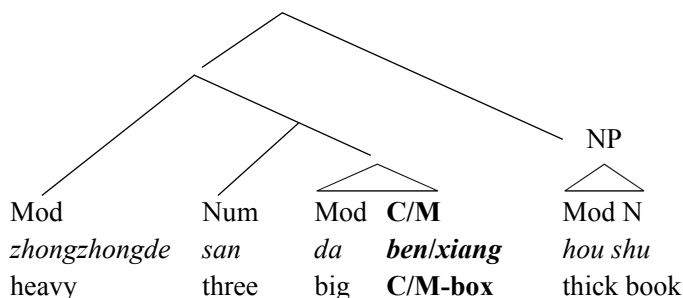
### 5.1 A unified left-branching c-structure

The left-branching c-structure, repeated as (43), is favored over its right-branching counterpart because it captures the uniform underlying [*multiplier* × *multiplicand*] mathematical structure between high number round figures and C/M. Yet, the right-

branching account has the advantage of capturing the C/M differences in scope phenomena, where C is assumed to be semi-lexical and thus more functional and transparent. Therefore, if we are able to explain the scope differences within the left-branching structure, then it should be favored.

(43) Unified left-branching c-structure

- a. 重重的      三      大      本      厚      書  
*zhongzhongde san da ben hou shu*  
 heavy      three big C      thick book  
 ‘three heavy big thick books’
- b. 重重的      三      大      箱      厚      書  
*zhongzhongde san da xiang hou shu*  
 heavy      three big M-box      thick book  
 ‘three heavy big boxes of thick books’



The unified left-branching c-structure better captures C/M's seven common properties in the phrase [Num C/M N]: (1) C/M are mutually exclusive, (2) N can be elided, (3) C/M can also be elided along with N, if Num is a high number and a round figure, (4) C/M both allow *-de*, (5) Num is optional if its equals *one*, (6) N is the head, and (7) both C/M allow *ban* 'half' and *duo* 'more' to follow. We shall now see a point-by-point comparison with the right-branching option.

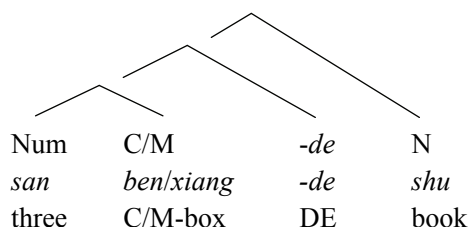
Property (1), C/M being mutually exclusive, does not favor either left or right. Yet, an explanation is needed for property (2), N ellipsis. As mentioned earlier, among unified right-branching analyses, it is universally assumed that the classifier heads its own projection and thus the elided NP is the complement of C (Saito et al. 2008). Indeed, the major cases of N'-ellipsis, VP-ellipsis, and sluicing all involve functional heads, i.e. D, T, and C respectively, and it is the complement that is elided. Obviously, this standard assumption does not apply to NP in the left-branching structure of (43), where NP is the head, not the complement. Thus, the NP ellipsis in (43) must not be a case of complement ellipsis but a case of head ellipsis, or gapping, similar to cases in (44) and (45).

- (44) a. dental ~~technology~~ and food technology  
 b. business ~~conditions~~ and financial conditions  
 c. Mary read two books, and John read five ~~books~~.  
 d. She has two children but wants more ~~children~~.  
 e. She was singing, and ~~she was singing~~ beautifully.  
 f. Q: Are you coming? A: Yes, I'm ~~coming~~ in a minute.
- (45) a. 你 穿 大號 西裝, 我 穿 中號 西裝  
*ni chuan dahao xizhuang wo chuan zhonghao xizhuang*  
 you wear large suit I wear medium suit  
 'You wear large-size suits, I wear medium-size.'
- b. 你 喜歡 白色 襪子 還是 黑色 襪子?  
*ni xihuan baise wazi haishi heise wazi?*  
 you like white sock or black sock  
 'Do you like white or black socks?'
- c. 他 有 很多 書, 我 也 有 很多 書  
*ta you henduo shu wo ye you henduo shu*  
 he have lots-of book I too have many book  
 'He has lots of books, I too have many.'

Recall property (6), that N is the head. Thus, though property (2) favors neither the left- nor right-branching analysis (property (6) and property (2) taken together), the left-branching analysis has a distinct advantage.

Property (3), where C/M can also be elided, if N is also elided and Num is a high number and a round figure, may seem to favor right-branching, where [C/M N] forms a constituent. However, the reality is just the opposite. As pointed out in §3, the reason a high number round figure is required for this ellipsis is because such a number, e.g. 三百 *sanbai* '300', has precisely the same underlying mathematical structure [*multiplier* × *multiplicand*] that [Num C/M] has. This thus indicates once again that [Num C/M] forms a constituent, excluding N. Ellipsis of N and that of C/M thus happen independently and successively, first N and then C/M, both head-ellipsis.

Having [Num C/M] as N's modifier also affords property (4) a simple uniform treatment, where [C/M N] as a single constituent merges with *-de*, as shown in (46). Even though the exact syntactic status of *de* is controversial, there is a clear consensus that *-de* introduces a modifier in [[XP-*de*] N]. A left-branching analysis enjoys this simple analysis of *-de*. A right-branching structure must have *-de* inserted between the head C/M and the complement NP, without having [Num C/M] as a constituent.

(46) Unified left-branching structure with *-de*

However, (46) does have its drawbacks, as keenly observed by Zhang (2011), who raises two objections. First, as mentioned earlier, pre-C modifiers and Num must scope over N, but the left-branching structure does not allow this as the pre-C modifiers do not c-command N. Second, C also does not c-command N and thus it is difficult for individual C's to impose selectional restrictions on N. We shall address these problems in §5.2, taking advantage of LFG's f-structure.

Property (5), where Num is optional only if its value is precisely *one*, also favors left-branching. Again, the math behind [Num C/M] is uniformly of the structure [*multiplier* × *multiplicand*], and therefore, as seen in (16) in §2.2, C, the *multiplicand* with the precise value of *1*, can be omitted if the style requires. Likewise, when Num, the *multiplier*, has the precise value of *1*, it too can be omitted. A right-branching structure, where [Num C/M] do not form a constituent at all, does not afford this insight.

Finally, the seventh common property, that both C/M allow *ban* 'half' or *duo* 'more' to follow, also favors the left-branching tree, where [Num C/M *ban/duo*] form a single constituent as a coherent quantifier of N and also receive a natural analysis, i.e. [[Num × C/M] + *ban/duo*], one that resembles natural numbers, e.g. [[8 × 10] + 3] for 八十三 *ba shi san* '83'. The right-branching structure, [Num [C/M N]], does not possibly allow [Num C/M-*ban/duo*] to form a constituent and thus fails to account for the mathematics in this construction.

The evidence so far thus favors the unified left-branching analysis. But before we move on to solve the scope problems, we shall examine another crucial support, from word order typology. In his seminal paper entitled 'On the history of classifiers in Archaic and Medieval Chinese', Peyraube (1998) establishes that there have been six word orders in total as far as Num, C/M, and N are concerned, as shown in (47a).<sup>7</sup> Note that, with C/M taken to be of the same category, the six patterns can be reduced to two groups, as in (47b).

<sup>7</sup> Peyraube (1998) in fact listed one more word order, N<sub>1</sub> + Num + N<sub>2</sub>, and thus seven all together. However, this order is merely an instance of (47a), Num + N and thus is not included. There are essentially just six word orders.

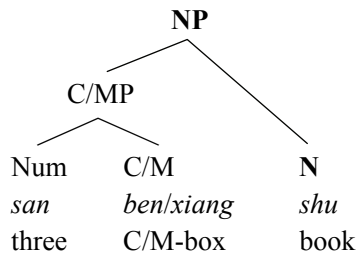


- (47) a. Six word orders among Num, C/M, and N in history (Peyraube 1998)
- i. Num + N
  - ii. N + Num
  - iii. Num + C + N
  - iv. N + Num + C
  - v. Num + M + N
  - vi. N + Num + M
- b. Six word orders reduced
- i. Num + N; N + Num
  - ii. Num + C/M + N; N + Num + C/M

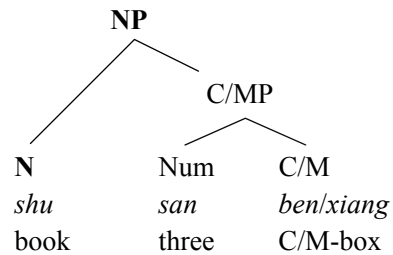
It is most telling that the two orders within each pair are mirror images if the [Num C/M] sequence is taken to be a constituent, which we shall call C/MP. Note also that the first pair in (47b) are without C. As we have already seen, even in today's Chinese, C is optional stylistically; [Num (C)] can therefore be seen as an instance of C/MP as well. The end result of this reduction is shown in (48), i.e. the six actual orders in the 3000 years of history can be rather elegantly accounted for by the head parameter under the assumption of the [Num C/M] constituency and N as the head in the left-branching [[Num C/M] N]; this result is shown in (48a) and (48b).

- (48) Attested word orders in Chinese history and cross-linguistically

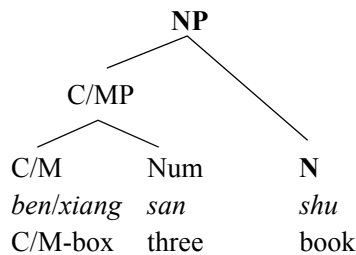
a. N: head-final; C/M: head-final



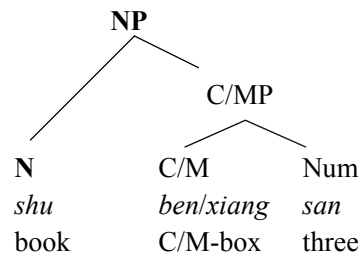
b. N: head-initial; C/M: head-final



a'. N: head-final; C/M: head-initial



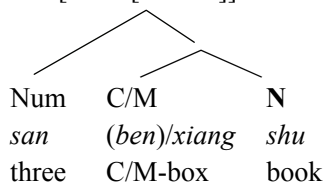
b'. N: head-initial; C/M: head-initial



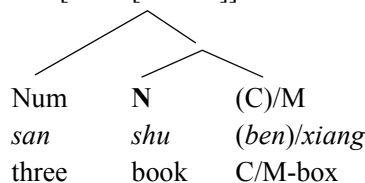
Note that the head parameter likewise applies to C/MP, where C/M is taken to be the head. The end result of applying the head-parameter on both C/M and N, shown in (48), is exactly the four attested word orders that Greenberg (1990a:185) has found in the classifier languages of the world, confirmed also by Aikhenvald (2000:104-105) in her influential book. A single c-structure where [Num C/M] forms a constituent first, either head-initially or head-finally, before merging with the head noun, again in either a head-initial or head-final fashion, comprehensively and accurately accounts for the word orders in language. A unified right-branching account or a split c-structure account, on the other hand, would over-generate as well as under-generate.

(49) Word orders predicted by [C/M N] constituency

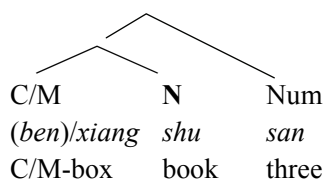
a. [Num [C/M N]]



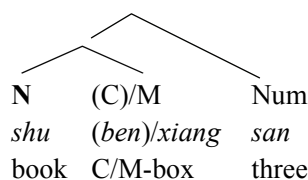
b. \*[Num [N C/M]]



a'. \*[[C/M N] Num]



b'. [[N C/M] Num]



Under the [C/M N] constituency, there are also four possibilities, as shown in (49). Yet, (49a') and (49b') are predicted to be viable options for Chinese, incorrectly; furthermore, (49b) and (49a') do not appear in any language. The [C/M N] constituency also fails to account for the [N Num C/M] order, which did occur in Chinese history and also elsewhere, and the attested [C/M Num N] order.

One might adopt (49a) in the mainstream derivational framework and resort to movement to account for the attested historical and cross-linguistic word order variations in (48). As a concrete illustration, Cinque (2005) proposes a single, universal, order of Merge, shown in (50) and also a leftward NP-raising to account for the word order variations in the nominal structure cross-linguistically.

(50) Universal order of Merge in the nominal structure (Cinque 2005)

[Q<sub>univ</sub>.. [Dem.. [Num<sub>ord</sub>.. [RC.. [Num<sub>card</sub>.. [Clf.. [A.. NP]]]]]]]

Relevant to our discussion is this order of merge, Num > C/M > N. The unmarked option in languages, e.g. Modern Chinese, is thus [Num [C/M N]], precisely the right-branching account. Mathematically, there are six possible orders among Num, C/M, and N, and as seen in (48), only four are attested. Let us see how Cinque's proposal actually fares in accounting for the C/M word order typology.

- (51) Word orders derived following Cinque's (2005) proposal
- a. [Num C/M N] (*attested*)  
N does not raise; can be derived.  
**Prediction correct.**
  - b. [N Num C/M] (*attested*)  
N raises around C/M and Num; can be derived.  
**Prediction correct.**
  - c. [C/M Num N] (*attested*)  
N does not move, but the two elements to its left are in the wrong order of merge; cannot be derived.  
**Prediction incorrect; under-generates.**
  - d. [N C/M Num] (*attested*)  
N moves around C/M and Num with Pied-piping of the *whose picture*-type; can be derived.  
**Prediction correct.**
  - e. [C/M N Num] (*unattested, no languages*)  
N raises one notch with Pied-piping of *picture of who*-type; can be derived.  
**Prediction incorrect; over-generates.**
  - f. [Num N C/M] (*unattested, no languages*)  
N moves around C/M, with vacuous Pied-piping of the *whose picture*-type; can be derived.  
**Prediction incorrect; over-generates.**

Like the non-movement account of [C/M N] constituency, the application of Cinque's (2005) movement-based proposal also leads to over-generation as well as under-generation. The unified left-branching account in (48) is straightforward and simple, and should thus be preferred.

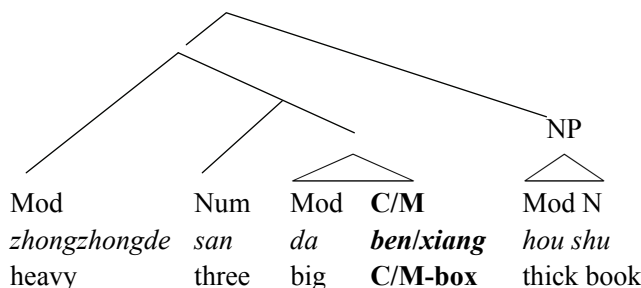
## 5.2 An f-structure analysis

Something must give, if not in the c-structure, then it must be in the f-structure, to account for the C/M differences in scope phenomena. Likewise, the fact that the

left-branching c-structure, repeated in (52), fails to account for the agreement relation between C and N indicates this relation needs to be accounted for in the f-structure.

(52) Unified left-branching structure

- a. 重重的      三    大    本    厚    書  
*zhongzhongde san da ben hou shu*  
 heavy          three big C    thick book  
 ‘three heavy big thick books’
- b. 重重的      三    大    箱    厚    書  
*zhongzhongde san da xiang hou shu*  
 heavy          three big M-box thick book  
 ‘three heavy big boxes of thick books’



The solution is clear: C and N must be co-heads in terms of f-structure, while M heads its own phrase as N's quantifier. Other cases of co-heads are generally between a functional category and its structural complement, e.g. D and NP, T and VP, C and TP. Adopting the notion that C is more functional than M (e.g. Kubo 1996, Vos 1999, van Riemsdijk 1998, and H&H), C naturally serves as a co-head of N, and thus anything that scopes over C must scope over its co-head N. In addition, as co-heads, C and N must have compatible f-structure information and this is exactly how C-N agreement is accomplished. In fact, Hsieh (2009), Her (to appear), Her & Lai (to appear), and Her & Hsieh (2011)'s insight that C functions cognitively as a profiler can be easily implemented as f-structure features in C as well as N. A sample of the relevant lexical entries is given in (53), with irrelevant and minor details left out.

(53) Sample Lexical Entries

- a. *shu* 書                  N  
 (↑ PRED) = 'BOOK'  
 (↑ PROFILABLE) = {BEN 本, CE 冊}

- b. *san* 三 Num  
(↑ CARD) = 3
- c. *ben* 本 CM  
(↑ PROFILED) = BEN 本
- d. *xiang* 箱 CM  
(↑ PRED) = 'BOX'

Note first that classifiers (C) and measure words (M) are assigned to a single lexical category, i.e. CM. This captures the fact that they share the same c-structures and are thus mutually exclusive. Their differences are located in f-structure. C has no PRED, but M does; C, however, has a feature PROFILED, whose value is the essential property each C serves to highlight. Note also that, though a C profiles an essential feature of the N, it does not mean a noun can only have one of its essential features profiled. Indeed, a noun may co-occur with one or more C's, though only one at a time as a formal requirement. 書 *shu* 'book', for example, normally takes the C *ben* 本, but *ce* 冊 is also an option. This is accounted for by the feature PROFILABLE of count nouns, which takes a set, e.g. {BEN 本, CE 冊}, as its value. A sample of relevant annotated phrase structure rules is given in (54), again with irrelevant and minor details left out.

### (54) Sample Annotated Phrase Structure Rules

- a. NP  $\rightarrow$  ... CMP ... N  
 $(\downarrow \text{PRED}) \Rightarrow^8$   $\uparrow = \downarrow$   
 $(\uparrow \text{QUANTIFIER}) = \downarrow$   
 $\neg (\downarrow \text{PRED}) \Rightarrow$   
 $\uparrow = \downarrow$   
 $(\downarrow \text{PROFIED}) \in_c (\uparrow \text{PROFILABLE})^9$
- b. CMP  $\rightarrow$  ... Num ... CM  
 $\uparrow = \downarrow$   $\uparrow = \downarrow$   
 $(\uparrow \text{CARD}) = 1^{10}$

<sup>8</sup> I follow Falk (2001) in using a more straightforward notation ' $A \Rightarrow B$ ' to express 'IF A THEN B' in LFG. Mary Dalrymple (p.c.) has suggested to me that in LFG 'IF A THEN B ELSE C' can be expressed as  $\{ \neg A \ C \mid A \ B \}$ , meaning either [NOT-A AND C] or [A AND B], thus either we have A and then we also have B, or we do not have A and in that case we have C, making C the elsewhere condition. Thus, 'IF A THEN B' can be expressed as  $\{ \neg A \mid A \ B \}$ .

<sup>9</sup> The expression ' $A \in_c B$ ' means ' $A$  must be a member of  $B$ '.

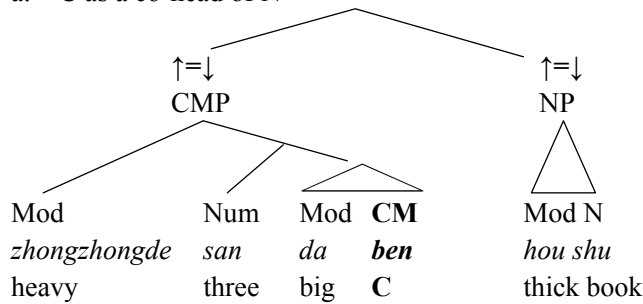
<sup>10</sup> The parentheses around an entire functional expression E indicates that E is optional.

The rule of (54b) builds CMP straightforwardly, where Num and CM are co-heads. The last equation is optional, which accounts for the fact that the numeral 1 may be optional. In (54a), CMP is first checked and see if it contains PRED. If it does, then it serves as a QUANTIFIER function to the head NP. If it has no PRED, then CMP is a co-head to N, and the agreement between its PROFILED feature and N's PROFILABLE feature is then accomplished by the constraint that the value of the former, e.g. *ben* 本, must be a member of the set value of the latter, e.g. {BEN 本, CE 冊}.

Tying it all together, the split f-structures that C/M project are shown in (55a) and (55b), respectively, with information of various modifiers also schematically indicated. Note that, following Falk (2001), the use of double quotes is a shorthand to get around giving detailed information in a subsidiary f-structure, thus similar to the use of triangles in c-structures.

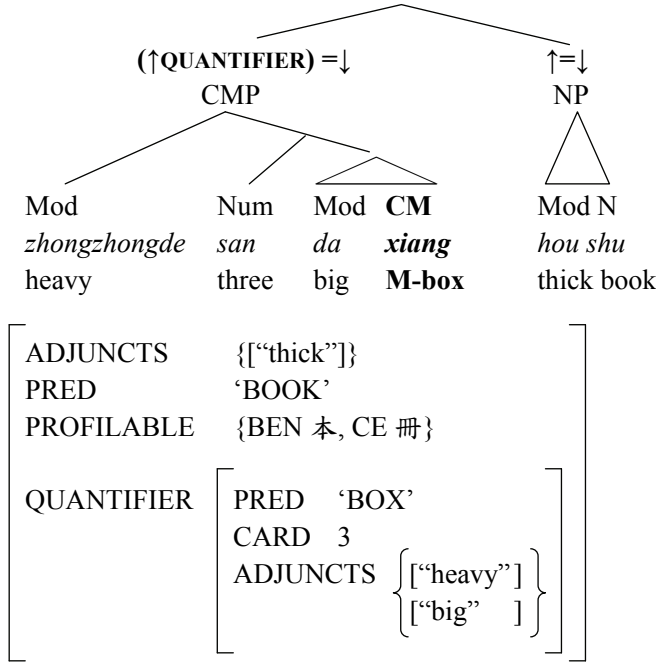
(55) Split f-structure

a. C as a co-head of N



PRED	'BOOK'
<b>PROFILED</b>	<b>BEN 本</b>
PROFILABLE	{BEN 本, CE 冊}
CARD	3
ADJUNCTS	$\left\{ \begin{array}{l} ["heavy"] \\ ["big"] \\ ["thick"] \end{array} \right\}$

## b. M as a head of N's QUANTIFIER



Within this f-structure analysis, C/M differences in adjectival and quantification scope as well as C-N agreement can all be captured. Central to this f-structure solution is allowing C, but not M, to be a co-head with N.

## 6. Concluding remarks

This paper is concerned with the syntactic analysis of classifiers (C) and measure words (M) in a [Num C/M N] phrase. C/M differ semantically in that C profiles an essential feature of the noun, while M provides accidental features to the noun. Mathematically, the [Num C/M] constituent and high number round figures share the same internal multiplication-based structure, e.g. 三百 *san bai* '300' and 三打 *san da* '3 dozens' are analyzable as  $[3 \times bai/da]$ , or  $[3 \times 100/12]$ . Thus, C/M function alike as the multiplicand, with Num as its multiplier; yet, C/M differ in their value,  $C = 1$ ,  $M = \neg 1$ . Cognitively, C uniquely serves the function to *profile* an essential feature in the semantic frame provided by the head noun.

Grammatically, C/M differ in scope phenomena. While C is transparent, in that it allows numeral quantification and adjectival scope to include N, M is opaque. Otherwise, C/M behave the same and share seven common properties: (1) C/M are

mutually exclusive, (2) N can be elided, (3) C/M can also be elided along with N, if Num is a high number round figure, (4) C/M both allow *-de* insertion, (5) Num is optional if its equals *one*, (6) N is the head, and (7) C/M both allow *ban* ‘half’ and *duo* ‘more’ to follow.

Previous syntactic accounts come in two varieties, exhausting the two logical options: unified analysis for C/M and split analysis for C/M. Within the unified camp, some propose a uniform left-branching structure, others right-branching. The left-branching option captures the parallel internal structure of high number round figures, i.e.  $[n \times base]$ , and that of [Num C/M] as a constituent, but fails to offer a configurational account for C/M differences in scope phenomena. The right-branching counterpart is just the opposite. It fails to capture the parallel internal structure of high number round figures and that of [Num C/M], which is not a constituent at all, but it does allow a structural account for C/M differences in scope phenomena, where C is assumed to be more functional and thus less lexical than M. A split analysis, where C appears in a left-branching structure and M right-branching, nicely accounts for C/M differences in scope phenomena straightforwardly in terms of c-command, but now what C/M have in common cannot be generalized and each common property needs to be analyzed differently structurally.

The solution offered for this catch-22 dilemma is formulated in the framework of Lexical Functional Grammar (LFG), where syntax is factored into a (constituent) c-structure and a (functional) f-structure. The phrase [Num C/M N] is argued to have a uniform left-branching c-structure, which best captures the seven properties C/M have in common as well as the underlying mathematical structure of [*multiplier*  $\times$  *multiplicand*] between Num and C/M. The C/M differences in scope are captured in f-structure, where C and N are co-heads. Whatever modifies C thus also modifies N. Agreement between C and N is likewise naturally accounted for by the two co-heads’ unification. M, on the other hand, heads its own projection and forms the QUANTIFIER function of the head noun.

To the extent that such a solution to the C/M dilemma is difficult in a purely constituent-based framework but it is not only available but also rather natural within LFG’s parallel architecture of c- and f-structures, having a separate independent feature structure proves to be on the right track and needs to be seriously considered as an integral part of UG.



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## 分類詞與量詞的句法結構： 詞彙功能語法的分析

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對於數詞 (Num)、分類詞與量詞 (C/M)、名詞 (N)，如「三匹馬」或「三箱書」，三者之間的結構，先前的看法可分三種，一是 [Num C/M] 先形成詞組，二是 [C/M N] 先形成詞組、三是兩種結構都需要。本文主旨在於論證 [Num C/M] 的結構不僅能捕捉 C/M 兩者之間的共通性（例如兩者在數學上均可解讀為被乘數，其質分別為  $I$  與  $\neg I$ ），同時在類型學上也能完整解釋 [Num C/M N] 在語言中存在的四種詞序；相形之下，另外兩種看法均會產生過度生成 (overgeneralization) 與生成不足 (undergeneralization) 的缺失。本文並在詞彙功能語法 (Lexical-Functional Grammar, LFG) 的理論架構下對漢語分類詞與量詞做出形式分析。C/M 兩者的詞組結構 (c-structure) 相同；但其功能結構 (f-structure) 不同：分類詞與 N 同為中心語 (co-heads)，在此也表現出分類詞如何彰顯 (profile) N 的某項本質特徵，而量詞的功能則是 N 的 QUANTIFIER。

關鍵詞：分類詞，量詞，詞組結構，功能結構，彰顯，乘法，被乘數

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漢語分類詞與量詞研究的書目

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出席國際會議心得報告  
計畫主持人：何萬順  
計畫執行單位：國立政治大學語言學研究所

計畫名稱：  
台灣華語中的分類詞：書目、語料庫與詞彙功能語法分析

計畫類別：個別型計畫  
計畫編號：NSC99-2410-H-004-190-MY2  
執行期間：2010年08月01日至2012年07月31日

計畫主持人於2010年於11月20日至22日期間訪問澳門大學，住宿於該校校區內招待所，期間均與該校文學院之語言學教師與學生互動、聚餐、訪談，並於22日下午發表演講，主題正是本計畫之主題，會後並再次與澳門當地多位語言學學者與學生互動，交換研究心得。

計畫主持人於2010年於12月18日至20日期間訪問香港大學，住宿於該校安排之Traders Hotel，期間與香港多位學者、語言學專家及學生互動、聚餐、訪談，並於20日下午發表演講，主題也是本計畫之主題，會後並再次與港大多位語言學學者與學生互動，交換研究心得。

計畫主持人於2011年於4月1日至5日期間訪問深圳大學，住宿於友人安排之私人會所，期間與深圳多位學者、語言學專家及學生互動、聚餐、訪談，並於2日下午發表演講，主題也是本計畫之主題，會後並再次與深大多位語言學學者與學生互動，交換研究心得。

以上數次演講均深獲與會學者的好評，其中反映最熱烈多半是對外華語的學者，一致認為本計畫所研究出的成果對於華語教學有重要的貢獻。當地學者也都一再邀請主持人將來再來訪問、研究並演講。

本人為「台灣語言學期刊」*Taiwan Journal of Linguistics*主編，因此另一收穫是於各個大學介紹該期刊，與多位學者交換經驗與看法，並且商討合作的可能。