Putting and Taking Events in Mandarin Chinese

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1 Introduction

Placement events involve the caused change of location of an object, putting it at or removing it from a location (i.e. a “putting” or a “taking” event). These events, typically described in English by a simplex verb such as take, as in She took the box from the bookshelf, are typically encoded in Mandarin with a verb compound such as na2-xia4-lai2 ‘take-descend-come’, as in (1):

(1) Ta1 cong2 shu1 jia4 shang4 na2-xia4-lai2 na4 ge4 he2 zi.²
she from bookshelf on¹ take-descend-come that CLF box

‘She from the bookshelf took down the box (towards herself).’

The first verb (V₁) of the verb compound, na2 ‘take’, encodes the general action of removing, the second verb (V₂), xia4 ‘descend’, encodes the Path of motion, and the third verb (V₃), lai2 ‘come’, indicates Deictic information (i.e. towards the Agent in [1]). Verb compounds like na2-xia4-lai2 are known as directional verb compounds, which typically describe motion events and involve a verb indicating the Path of motion.

This paper investigates the lexical semantics of Mandarin placement predicates from the perspective of event encoding and event categorization. The data explored in this study are the verbs used in elicited descriptions of 63 Put&Take video clips (Bowerman, Gullberg, Majid, and Narasimhan, 2004) plus three warm-up items, depicting a wide range of caused putting and taking events by 10 adult native speakers of Mandarin (mean age 28 years). In §2, I give an overview of the grammatical encoding of the semantic components of a placement event in a clause – Figure, Ground, Motion, and Path. In §3, I discuss the lexical semantics of verb compounds and their component verbs. I

¹ The gloss for shang4 ‘on/top’ is adopted for convenience of discussion as there is no exact counterpart in English.
² The numbers mark tones. Abbreviations used in the glosses in this paper include: PFV = perfective, CLF = classifier, GEN = genitive/possessive case marker.
first examine Path verbs since Path is the key component of a motion event. Mandarin Path verbs are often in the second or third position in a directional verb compound and they constitute a closed set. I then illustrate the event categories selected by verbs that have been used in the V₁ slot of a directional verb compound and specify the crucial semantic features for these distinctive categories.

2 Encoding Placement Events

A placement event, as a particular type of motion event, is analyzed as having four basic semantic components, Motion, Ground, Figure, and Path (Talmy, 1985, 2000). In Mandarin the information about Motion and Path is encoded in the predicates (see §3 for details). The Ground and Figure components are encoded as arguments or adjunct coverb phrases in the clause.

The Ground information includes the location from which the Figure moves (i.e. Source) and at which the Figure ends up (i.e. Goal). The Source information always occurs in a preverbal position as an adjunct coverb phrase, e.g. cong2 shui3 li3 ‘from water inside’ (= from the water), as in (2). The coverb cong2 is a preposition-like morpheme and it must be used together with a spatial particle such as li3 ‘inside’ or shang4 ‘on’ after the Ground NP. It is the spatial particle that explicitly indicates the spatial relation between the Figure entity and the Ground entity. It is ungrammatical to leave the spatial particle out, e.g. *zai4 di4 ‘at ground’ (cf. zai4 di4 shang4 ‘at ground on’ in [2]). To encode the spatial relations between the Figure and the Ground that is typically encoded with a preposition such as in and on in English, Mandarin utilizes two components, a coverb, as a general locative marker, and a locative particle.

(2) Ta1 ba3 zhuan1tou cong2 shui3 li3 na2-chu1-lai2.
    she BA brick from water inside take-exit-come
    ‘She took the brick from the water.’

3 I follow Talmy’s (Talmy, 2000) theoretical framework in analyzing motion events and adopt the following terms to refer to:
Figure = the object that undergoes a change of location
Ground = a reference with reference to which the path, site, or orientation of the Figure is characterized
Source = origin of the motion of the Figure
Goal = orientation of the motion of the Figure
Agent = the causer of motion
Path = trajectory or Deixis of motion
4 Li and Thompson (1981) use “coverb” to refer to a group of morphemes that may function as a verb in some contexts but that can also behave like functional words in other contexts in Mandarin. Typical coverbs include morphemes like zai4 ‘at’, cong2 ‘from’, gen1 ‘with’, cong2 ‘from’, chao2 ‘facing’, yan2 ‘along’, and li2 ‘be apart from’.
5 Morphemes like li3 ‘inside’ or shang4 ‘on’ were called “locative particles” (Li and Thompson, 1981). Other locative particles are xia4 ‘under’, wai4 ‘outside’, qian2 ‘front’, hou4 ‘back’, pang2 ‘side’, and zhong1/jian1 ‘middle’.
The Goal information always occurs at a post-verbal position either as an adjunct coverb phrase such as zai4 di4 shang4 ‘at ground on’ in (3) or as an NP of the complex predicate such as ta1 de tou2fa1 li3 ‘her hair inside’ (= the inside part of her hair) as in (4).

(3) Ta1 ba3 mu4kuai4 dao4 zai4 di4 shang4.
   he BA wood.bloc pour at ground on
   ‘He poured the wooden blocks on the ground.’

(4) Ta1 ba3 hua1 cha1-jin4 le ta1 de tou2fa li3.
   she BA flower insert-enter PFV she GEN hair inside
   ‘She inserted the flower into her hair.’

The Figure, i.e. the entity that undergoes the movement, is encoded as the argument of the predicate (as in (1)). It also occurs as an NP following the morpheme ba3 (henceforth the BA NP), as in (2), (3), and (4). The morpheme ba3 was a full verb in classical Chinese, meaning ‘take, hold, handle’ (e.g., Bennett, 1981; Wang, 1954), but it has become grammaticalized and its original status as a full verb has weakened in modern Chinese. Constructions containing the morpheme ba3 are commonly referred to as “the BA construction”, in which the referent of the BA NP usually receives a reading of being disposed of, dealt with, manipulated or handled, and, thus, affected by the action denoted by the VP in the clause. This meaning gives the BA construction the label “disposal construction” (Chao, 1968; Li and Thompson, 1981; Wang, 1954).6

In the elicited descriptions of placement events, 75% (472 out of the total of 630) of the constructions consists of BA constructions. This dominance may be due to three factors. First, the “disposal or manipulation” meaning of the BA construction corresponds to the manipulation meaning and the caused change of location of the entity in a placement event. Second, Mandarin is argued to favor temporal iconicity (Haiman, 1985; Tai, 1985) and the order of the grammatical components in the BA construction conforms indeed to this principle. That is, the surface order of the syntactic units matches the temporal order of the placement events – holding or handling the object and then placing it at or removing it from a location. This temporal sequence is realized syntactically with the morpheme ba3 followed by the Figure NP that is followed by the placement verb. The historical meaning of ba3 as ‘take, hold, handle’ is still detectable in the BA construction. The counterparts of ba3 in a number of south eastern Asian languages have preserved their full verb status and are frequently used with other placement verbs to form a serial verb construction to describe placement events (Enfield, p.c.). Finally, ba3 is syntactically required to allow more than one constituent to occur in a post-verbal position. Mandarin restricts the number of constituents post-verbally.

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6 The status of ba3 is controversial: it has been argued to be a case marker (Huang, 1982), a focus marker (Sun and Givón, 1985), or a secondary topic marker (Tsao, 1996).
and when more than one constituent is placed in the post-verbal position, the sentence becomes ungrammatical, e.g. *ta1 cha1-jin4 hua1 ta1 de tou2fa1 li3 ‘she insert-enter flower her hair inside’, where two phrases, hua1 ‘flower’ and ta1 de tou2fa1 li3 ‘her hair inside’ occur after the verb compound cha1-jin4 ‘insert-enter’. When ba3 is used, however, the NP encoding the Figure follows ba3 directly and thus leaves only the Goal phrase post-verbally, as in (3) and (4).

3 Lexical Semantics of Placement Verbs

The meanings of Motion and Path are encoded in compound placement predicates in Mandarin. In this data set, 67% of all the verb tokens are verb compounds and the remainder consists of simplex verbs. All the simplex placement verbs are also used as the V1 of a verb compound. It is worth noting that not all the elicited verbs of manipulation (V1) by themselves encodes the core meaning of a placement, i.e. caused change of location, such as diao1 ‘hold in mouth’, jia2 ‘hold tightly’. The caused motion meaning is conveyed by the compound as a whole, i.e. when such a verb of manipulation is combined with a V2 indicating Path of motion. This resembles the so-called English caused motion construction (e.g., Goldberg, 1995) such as John squeezed the ball into the box, where the verb squeeze by itself does not have a motion meaning. Therefore, in these cases the constructional meaning of verb compound, rather than the verb alone, gives rise to the caused motion reading. In what follows, I discuss the composition of verb compounds and the lexical semantics of the high-frequency simplex placement verbs.

3.1 Productivity and the Semantic Composition of the Directional Verb Compounds

Verb compounding is a very productive process in Mandarin, involving the combination of two or three free verbs in a fixed order, e.g. na2-xia2-lai2 ‘take-descend-come’, as in (1). The first verb (V1) usually encodes the manipulation of an object (e.g. putting or taking), the second verb (V2) the Path of the motion, and the third verb (V3) the Deictic relation between the Agent (or the speaker) and the direction of motion of the Figure object. A directional verb compound (V1V2 or V1V2V3) clearly represents a placement event as composed of two crucial semantic components, each encoded by one verb. Each component verb is a full verb by itself and can be used freely outside verb compounds. The ordering of the component verbs is fixed and

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7 Simplex placement verbs were used only for putting events in the data. When a simplex verb was used, it was always immediately followed by a coverb locative phrase with zai4 indicating the Goal, e.g. zai4 di4 shang4 ‘at ground on’ (= on the ground), as in (3).
8 Mandarin verb compounds encode not only motion events but also change-of-state.
9 Two verbs encoding Path were found in V1 position in this data set: shen1 ‘to extend, to stretch’ and diao4 ‘to fall’. In the context of these verbs, the role of V2 is to provide details about the Path followed by the Figure. See §3.4 for details.
Putting and Taking Events in Mandarin Chinese

iconic — the verb expressing the manipulation of an object (such as placing or taking) usually precedes the verb expressing the Path of motion.

The productivity of verb compounding was attested by the diversity of directional verb compounds used in the descriptions of placement events: A total of 59 types of verb compounds were produced (token frequency 423). This productivity is also revealed by the diversity of the verbs (V₁) that can combine with the Path verbs. A total of 37 types of V₁ were used by the ten speakers. These verbs were combined flexibly with one or two Path verbs which form a closed set in Mandarin.

3.2 Path Verbs: V₂ and V₃ of the Directional Verb Compound

Path is the key component of motion. In Mandarin Path information is typically encoded with one or two verbs (V₂ or V₃) in a directional verb compound. The high frequency of verb compounds indicates that Path is often spelled out explicitly in the description of placement events.

Path verbs include verbs that indicate the trajectory of the motion such as shang4 ‘ascend’ (up), and xia4 ‘descend’ (down), and deictic verbs that indicate the orientation of motion such as lai2 ‘come’ and qu4 ‘go’. The trajectory Path verbs can combine with the deictic verbs to form compounds. Table 1 shows the two groups of verbs and their combinations.¹⁰

<table>
<thead>
<tr>
<th>V₂</th>
<th>lai2 ‘come’</th>
<th>qu4 ‘go’</th>
</tr>
</thead>
<tbody>
<tr>
<td>shang4 ‘ascend’</td>
<td>shang4-lai2 ‘ascend-come’ (come up)</td>
<td>shang4-qu4 ‘ascend-go’ (go up)</td>
</tr>
<tr>
<td>xia4 ‘descend’</td>
<td>xia4-lai2 ‘descend-come’ (come down)</td>
<td>xia4-qu4 ‘descend-go’ (go down)</td>
</tr>
<tr>
<td>jin4 ‘enter’</td>
<td>jin4-lai2 ‘enter-come’ (come in)</td>
<td>jin4-qu4 ‘enter-go’ (enter)</td>
</tr>
<tr>
<td>chu1 ‘exit’</td>
<td>chu1-lai2 ‘exit-come’ (come out)</td>
<td>chu1-qu4 ‘exit-go’ (go out)</td>
</tr>
<tr>
<td>hui2 ‘return’</td>
<td>hui2-lai2 ‘return-come’ (come back)</td>
<td>hui2-qu4 ‘return-go’ (return)</td>
</tr>
<tr>
<td>guo4 ‘pass’</td>
<td>guo4-lai2 ‘pass-come’ (come over)</td>
<td>guo4-qu4 ‘pass-go’ (go over)</td>
</tr>
<tr>
<td>zou3 ‘be.away’</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>qi3 ‘rise’</td>
<td>qi3-lai2 ‘rise-come’ (come up)</td>
<td>—</td>
</tr>
</tbody>
</table>

¹⁰ The verb zou3 by itself means ‘walk’, but when it is used as the V₂ in a compound it has only a grammaticalized meaning of ‘be away’. For example, na2-zou3 ‘take-walk’ means ‘take away’.
Note that neither a trajectory Path verb nor a deictic verb by itself encodes the meaning of placement. They have to combine further with a verb of manipulation to describe the placement events.

The two deictic verbs, *lai2* ‘come’ and *qu4* ‘go’, are optional – only 37% (158/423) of the verb compounds contain a deictic verb. Among these verb compounds, *lai2* ‘come’ is dominant (97%). *Lai2* ‘come’ indicates the direction of motion of the Figure object towards the Agent of the action or towards the speaker who describes the event. For example, *lai2* is used in *na2-xia4-lai2* ‘take-descend-come’, as in (1), since the box is removed from the bookshelf (a higher location) to a lower location where the Agent is standing and the motion is oriented toward the Agent.

### 3.3 Verbs Expressing Manipulation: V₁ of the Directional Verb Compounds

Two general placement verbs, *fang4* ‘put’ and *na2* ‘take’, are the most frequent V₁ of directional verb compounds. They are general in the sense that they have relatively little meaning beyond a schematic meaning of “manipulate a Figure object to cause motion/change of location”. Events that were described with *fang4* ‘put’ or *na2* ‘take’ in this data set form a subset of the putting and taking events that are typically described with *put* or *take* in English (Bowerman, Majid, Gullberg, and Narasimhan 2004). Many placement events that fall into the extensional categories of English *put* and *take* are obligatorily encoded in Mandarin with placement verbs that convey more specific information than simply the bare schema of putting or taking. I call these verbs “specific verbs”. The general placement verbs *fang4* or *na2* are often not applicable or not the most favored to describe the events depicted by the specific verbs. When a specific verb is used there is often a high degree of agreement among the speakers. The subsections below illustrate the extensional patterns of the general placement verbs *fang4* and *na2* and that of the specific verbs. Table 2 summarizes the crucial semantic distinctions that Mandarin speakers make in describing placement events.

#### 3.3.1 Fang4 ‘put’

The verb *fang4* ‘put’ describes a large group of placement events such as ‘putting cup on table’, ‘putting box up on shelf’, and ‘putting book on floor’. 14 of the total of 36 putting events were described with *fang4* with a 100% agreement on the use of this verb for most of the clips. These events involve putting a large range of inanimate Figure entities with different physical properties, i.e. cup, rice, box, book, apple, stone, pen, and rope, at various kinds of locations such as table, shelf, floor, tree branch, and hole. Although the current set of stimuli does not include any animate Figure entities, *fang4* can also be used for such cases, e.g. putting a baby into cradle. The resultant orientation of the Figure can be either standing (such as cup on table) or lying
(such as book on floor). The verb fang4 was also used to describe placing an object with an instrument, e.g. putting a banana on table with long tongs. Given such wide range of uses, fang4 ‘put’ is obviously a broad ‘put-type’ verb with no entailments regarding the specific physical properties of Figure or Ground, the resultant orientation of the Figure, and Manner of manipulation.

3.3.2 Na2 ‘take’

The verb na2 ‘take’ describes a large range of events of removing a Figure from a Ground: 48% of all the taking events (13 of the total of 27) were described with na2, with an average of 85% agreement among the speakers. These events consist of removing different types of inanimate Figure entities such as box, orange, stone, rope, poster and stone from various kinds of locations such as table, self, box, tree branch, as well as from an animate Ground (e.g. taking a coke can from someone).

Interestingly, for 6 out of 27 taking events, some speakers described these events with specific verbs such as ba2 ‘pull’ for taking cucumber out of a recorder case, to focus on a tight-fitting relation between the Figure and the Ground. In these specific contexts, na2 is clearly less frequently selected, if not considered inappropriate by Mandarin speakers.

3.3.3 Verbs of Dressing and Undressing

Specific dressing or undressing verbs typically describe putting clothes on or taking them off. Mandarin has three such verbs, chuan1 ‘put on’, dai4 ‘put on’, and tuo1 ‘take off’. These verbs were used by all the speakers across the same set of events – events of putting on or removing clothes – with 100% agreement. Sample descriptions are shown in (5) and (6).

(5) Yi2 ge4 ren2 ba3 wai4tao chuang1-shang4 le.
    one CLF person BA coat put.on-ascend PFV
    ‘A person put on a coat.’

(6) Yi2 ge4 ren2 ba3 wa4zi tuo1-xia4-lai2 le.
    one CLF person BA sock take-descend-come PFV
    ‘A person took off her socks.’

The two putting-on-clothing verbs, chuan1 and dai4, are selected according to the body part (i.e. the Goal) or the entities involved: chuan1 is used only for putting on clothing on the trunk of the body, e.g. putting on a coat, putting on trousers; dai4 is used for putting on accessories such as hat, earrings, necklace, bracelet, glasses, or ring. These entities typically land on the joints or the extremities of the body such as wrist, finger, or ears. The verb tuo1 has a general meaning of removing clothing off of body parts and is applicable to the removing of any kind of clothing (including small accessories) from any part of the body. The general verb fang4 ‘put’ cannot be used for putting
clothing or accessories on body parts. In contrast, the general verb na4 ‘take’ may be used for removing small accessories from body part, e.g. taking off hat (from head).

3.3.4 Verbs Specifying Spatial Relations between Figure and Ground

The relation between Figure and Ground plays a role in determining the extensional categories of the placement verbs. Two putting verbs, sai1 ‘stuff’ and cha1 ‘insert’, and two taking verbs, ba2 ‘pull’ and chou1 ‘pull, draw’, describe putting a Figure in or taking it from tight-fitting containment. The verbs sai1 is used only for soft (usually fluffy) objects, and cha1 only for rigid objects, as in (7) and (8).

(7) Yi2 ge4 ren2 ba3 bu4 sai1-jin4 qi4che1 pai2qi4-guan3.
   one CLF person BA rag stuff-enter car exhaust-pipe
   ‘A person stuffed a rag into the exhaust pipe of the car.’

(8) Na4 ge4 ren2 ba3 na4zhu2 cha1-jin4 zhu2-tai2.
   that CLF person BA candle insert-enter candle-stand
   ‘That person inserted the candle in the candle stand.’

The verbs ba2 ‘pull’ and chou1 ‘pull, draw’ both describe removing a Figure from a tight-fitting container; chou1, in particular, is used for pulling a long object from a tight-fitting container. This is illustrated in (9) and (10).

(9) Na4 ge4 ren2 ba3 na4zhu2 cong2 shang4 ba2-xia4-lai2.
   that CLF person BA candle from pull-exit-come
   ‘That person inserted the candle in the candle stand.’

(10) Ta1 cong2 dai4zi li3 chou1-chu4 huang1gua1.
    he from bag inside pull-exit cucumber
    ‘He pulled a cucumber from the bag.’

Mandarin distinguishes tight-fitting relation from adhesive relationship. The verb tie1 ‘stick’ describes attaching a Figure, which is subject to gravity, to the Ground with adhesives such that it stays on the Ground, as shown in (11).

(11) Yi2 ge4 ren2 ba3 hua4 tie1 zai4 qiang2 shang4.
    One CLF person BA poster stick at wall on
    ‘A person put a poster on the wall.’
Mandarin also distinguishes removing a Figure from a lower location, as represented by the verb jian3 ‘pick’ in (12).

(12) Ta1 cong2 di4 shang4 jian3-qi3 yi1 ben3 shu1.
    she from floor on pick-rise one CLF book
    ‘She picked up a book from the floor.’

Nine of the ten speakers used jian3 ‘pick’ to describe the picking event, and only one speaker used na2 ‘take’. When probed whether na2 was also appropriate to describe this event, all the speakers agreed that na2 was applicable. It seems that even if the general taking verb na2 is available and appropriate to describe such an event, it is not preferred; rather a specific verb is favored as it conveys more information than just manipulation.

3.3.5 Verbs Specifying Manner

Two taking verbs, tao1 ‘draw, dig’ and zhua1 ‘grasp, hold tightly’, specify the Manner in which the Agent removes a Figure from a Ground, as in (13) and (14).

(13) Na1 ge4 ren2 cong2 kou3 dai4 li3
    That CLF person from pocket in
tao1-chu1 yi2 mei2 ying4 bi4.
    take-exit one CLF coin
    ‘That person took a coin from her pocket.’

(14) Ta1 cong2 zhuo1 shang4 zhua1-qi3 yi1 ba3 dou4 zi.
    she from table on grasp-rise one CLF bean
    ‘She took a handful of beans from the surface of the table.’

The verb tao1 describes taking out a Figure in a scooping manner, usually after searching in a Ground object that is deep, e.g. the pocket as in (13) which encloses both the Figure object (coin) and the Agent’s hand. The verb zhua1 ‘grasp, hold tightly’ describes the Agent opening her hand, taking hold of the Figure, and grasping it in the hand.

3.3.6 Verbs Specifying Intentionality and Control

Mandarin distinguishes intentional (controlled) vs. accidental placement, as reflected in four specific verbs – dio4 ‘drop’, reng1 ‘throw’, sa3 ‘spill’, and dao4 ‘pour’. The events picked out by these verbs cannot be described with a general verb fang4 ‘put’, and the speakers show a high degree of agreement on the use of each verb for the relevant stimuli.

The verb dio4 describes unintentional placing or dropping of a Figure, e.g. ‘dropping book accidentally on floor’. Deliberate dropping, in contrast, is
Jidong Chen

described with reng1 ‘throw’, e.g. tossing a book on floor. This contrast is shown in (15) and (16).

(15) Yi1 ben3 shu1 diao4 dao4 di4 shang4 le.
    one CLF book fall to ground on PFV
    ‘A book fell on the ground.’

(16) Ta1 ba3 shu1 reng1 zai4 di4 shang4.
    she BA book throw at ground on
    ‘She threw the book on the ground.’

The verb sa3 is typically used for accidentally spilling liquids, as in (17). It is also appropriate to describe accidental dropping of solid objects consisting of fine grains or particles, like sand, rice, flour, sugar or seeds.

(17) Yi2 ge4 ren2 ba3 zhuo1zi shang4 de bei1zi na2-q13-lai2,
    one Clf person BA table on GEN cup take-rise-come
    water from cup in spill-exit-come PFV
    ‘A person took the cup from the table, and water spilled out from the cup.’

The verb dao4 ‘pour’ typically describes the Agent either pouring liquid or dropping solid objects (e.g. wooden blocks) into a Ground object. Whereas in English such events are encoded with three English verbs, pour, dump, and flip, in Mandarin dao4 covers all the events categorized by these three English verbs. This suggests that Mandarin does not distinguish placing liquid versus solid objects into a container; nor does it care about the Manner of pouring, e.g. flipping blocks off notepad into bowl.

3.3.7 Verbs Encoding Instrument of Placement

In the elicited data, six verbs encode instrument with which the placement action is conducted. These verbs are used for both putting and taking events: bao4 ‘hold in arm(s)’, ling1 ‘carry by hand(s)’, ti2 ‘carry by hand(s)’, xian2 ‘hold in mouth’, diao1 ‘hold in mouth’, and jia2 ‘hold tightly (in instrument)’. The first five verbs typically entail a body part engaged in the placement action – arm(s) or arm-like instrument for bao4, hand(s) or hand-like instrument for ling1 and ti2 (which are synonyms), and mouth for xian2 and diao1 (which are synonyms). The verb jia1 entails holding a Figure tightly in-between the instrument, e.g. holding a banana with long tongs.

3.4 Verbs encoding Path as the V1 of the Directional Verb Compounds

Recall that Path is usually encoded with a second or third verb in a directional verb compound. There are, however, two verbs in this data set that entail Path,
Putting and Taking Events in Mandarin Chinese

and that occur in the V₁ slot of directional verb compounds, *diao4 ‘fall’* and *shen1 ‘extend’*. The verb *diao4 ‘fall’*, describes accidental dropping of a Figure (cf. §3.3.6), and entails a downward motion as effected by gravity. This verb can combine with a Path verb that explicitly spells out downward motion entailed in *diao4 ‘fall’*, e.g. *diao4-xia4 ‘fall-descend’*, but it cannot combine with Path verb that entails a conflicting Path, e.g. *diao4-shang4 ‘fall-ascend’*.

The verb *shen1 ‘extend, stretch’* can describe either putting or taking events. It entails a Figure’s stretching out, which as a result ends up in a Ground object, e.g. ‘putting head into and taking it out from a bucket’ or ‘taking one’s hand from a hole on a tree’, as in (18) and (19).

(18) *Ta1 ba3 tou2 shen1-jin4 le tong3 li3.*
He BA head extend-enter PFV bucket in
‘He extended his head into the bucket.’

(19) *Ta1 ba3 shou3 cong2 shu4dong4 li3 shen1-chu1-lai2 le.*
She BA hand from tree.hole in extend-exit-come PFV
‘She took her hand from the hole on the tree.’

The verb *shen1* is used only for events where a Figure extends itself and ends up in the space of a container. In other words, the part that moves is an integral part of the Agent that instigates the movement. When being probed whether *fang4 ‘put’* could be used to describe events as depicted by (18) or (19), most of the speakers rejected it. It appears therefore that the use of *shen1*, instead of *fang4* or *na2*, is specific to putting or removing a part of the Agent body.

3.5 Summary

I have shown the lexical semantics of the verbs that are typically the V₁s of a directional verb compound in the elicited descriptions of placement events in Mandarin. Two general placement verbs, *fang4 ‘put’* and *na2 ‘take’*, have large extensional categories, but their use is not unconstrained and Mandarin requires specific verbs to encode certain kinds of events. Six groups of specific verbs are identified according to certain shared distinctive semantic features, as summarized in Table 2.

Table 2 shows that crucial semantic distinctions are made based on the Goal of the placement (e.g. dressing verbs), the spatial relationship between a Figure and a Ground object (e.g. tight-fitting), Manner of placement, intention and control of the Agent, and Path of motion. All of these verbs occur as the V₁ of compound, but some are also used by themselves, as in (3). The compound as whole, rather than any of the component verbs alone, expresses the motion reading.
Table 2. Summary of the high-frequency specific placement verbs in the elicited descriptions of placement events

<table>
<thead>
<tr>
<th>Groups</th>
<th>Verbs</th>
<th>Glosses</th>
<th>Distinctive semantic features</th>
</tr>
</thead>
<tbody>
<tr>
<td>(un)dressing verbs</td>
<td>tuo1</td>
<td>take off</td>
<td>Figure: Clothing</td>
</tr>
<tr>
<td></td>
<td>chuan1</td>
<td>put on</td>
<td>Figure: Clothing; Goal: body trunk and feet</td>
</tr>
<tr>
<td></td>
<td>dai4</td>
<td>put on</td>
<td>Figure: Clothes; Goal: extremities or joints of body (e.g. hand, head, wrist)</td>
</tr>
<tr>
<td>Verbs specifying relationship between Figure and Ground</td>
<td>ba2</td>
<td>pull</td>
<td>Relation between Figure and Goal (tight-fitting); direction of motion (out)</td>
</tr>
<tr>
<td></td>
<td>chou1</td>
<td>pull, draw</td>
<td>Relation between Figure and Goal (tight-fitting); direction of motion (out) (from long container)</td>
</tr>
<tr>
<td></td>
<td>cha1</td>
<td>insert</td>
<td>Relation between Figure and Goal (tight-fitting); direction of motion (in); Figure (rigid)</td>
</tr>
<tr>
<td></td>
<td>sai1</td>
<td>stuff</td>
<td>Relation between Figure and Goal (tight-fitting); physical property of Figure (soft)</td>
</tr>
<tr>
<td></td>
<td>tie1</td>
<td>paste</td>
<td>Relation between Figure and Goal (clinging)</td>
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<tr>
<td></td>
<td>jian3</td>
<td>pick</td>
<td>Relation between Source and Goal: From a lower location to a higher location</td>
</tr>
<tr>
<td>Verbs specifying Manner</td>
<td>tao1</td>
<td>draw, dig</td>
<td>Manner of placement</td>
</tr>
<tr>
<td></td>
<td>sa3</td>
<td>spread</td>
<td>Manner of placement</td>
</tr>
<tr>
<td></td>
<td>zhua1</td>
<td>grasp, hold tightly</td>
<td>Manner of placement (grasping)</td>
</tr>
<tr>
<td>Verbs specifying control and intention</td>
<td>diao4</td>
<td>fall</td>
<td>Lack of control and intention</td>
</tr>
<tr>
<td></td>
<td>sa3</td>
<td>spill</td>
<td>Lack of control and intention</td>
</tr>
<tr>
<td></td>
<td>dao4</td>
<td>pour</td>
<td>Intention and control</td>
</tr>
<tr>
<td></td>
<td>reng1</td>
<td>throw</td>
<td>Intention and control</td>
</tr>
<tr>
<td></td>
<td>tui1</td>
<td>push</td>
<td>Intention and control</td>
</tr>
<tr>
<td>Verbs encoding Instrument</td>
<td>bao4</td>
<td>hold in arm</td>
<td>Instrument (arm or arm-like instrument in a holding posture)</td>
</tr>
<tr>
<td></td>
<td>ling1</td>
<td>carry in hand</td>
<td>Instrument (hand or hand-like instrument)</td>
</tr>
<tr>
<td></td>
<td>ti2</td>
<td>carry in hand</td>
<td>Instrument (hand or hand-like instrument)</td>
</tr>
<tr>
<td></td>
<td>diao1</td>
<td>hold in mouth</td>
<td>Instrument (mouth)</td>
</tr>
<tr>
<td></td>
<td>xian2</td>
<td>hold in mouth</td>
<td>Instrument (mouth)</td>
</tr>
<tr>
<td></td>
<td>jia2</td>
<td>hold tightly</td>
<td>Instrument (tight-fitting between Figure and Instrument)</td>
</tr>
<tr>
<td>Verbs encoding Path</td>
<td>diao4</td>
<td>fall</td>
<td>Path (downward)</td>
</tr>
<tr>
<td></td>
<td>shen1</td>
<td>extend, stretch</td>
<td>Path (forward)</td>
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4. Conclusion

This paper demonstrates the Mandarin-specific organization of the semantic components in the domain of placement events and the semantic extensional patterns of the general placement verbs and the specific verbs. It shows that Ground (Source/Goal) and Figure are encoded as arguments or adjunct coverb phrases and that Path and Motion are frequently encoded with directional verb compounds. A directional verb compound is composed of two or three free verbs in the form of $V_1V_2$ or $V_1V_2V_3$, with each verb encoding certain aspect of the motion event. The verb compounds as a whole convey the motion meaning of the placement. The verbs in the $V_1$ slot, an open set of verbs, encompass general placement verbs $fang4$ ‘put’ or $na2$ ‘take’, a range of specific verb that make fine-grained semantic distinctions, and two verbs that entail the Path of motion. The verbs in the $V_2$ or $V_3$ slot form a closed set of two types of Path verbs: Trajectory verbs and deictic verbs.

This study contributes to the crosslinguistic study of typology of motion events. It supports the refined typology of motion events as proposed by Slobin (2004) that Mandarin, different from the satellite-framed languages (such as English and German), belongs to the “equipollently-framed languages”. In this pattern, Path and Manner are expressed by equivalent grammatical forms (i.e. two or three free verbs in the compound).

References


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