



TITLE:

The temporal reference of aspectually unmarked bare accomplishment ba-sentences in Taiwanese Mandarin

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The Temporal Reference of Aspectually Unmarked Bare Accomplishment *Ba*-Sentences in Taiwanese Mandarin^{*}

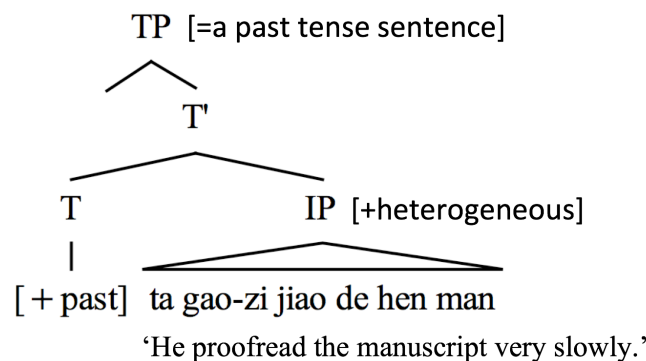
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1. Introduction

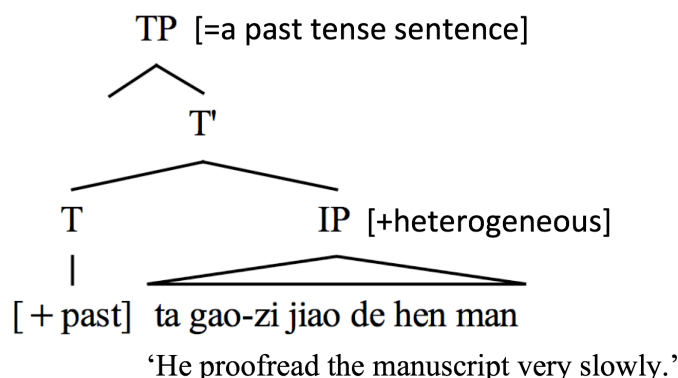
- Bare sentence: sentences without temporal adverbials
- Mandarin lacks inflectional morphology to indicate tense, but has morphology like devices (*zai* 在, *zhe* 著, *guo* 過, *le* 了) to add an aspectual value to a verb.
- Lin (2002) claims:
 - ① Mandarin phrase structure contains a tense phrase (TP)
 - ② Two selectional restrictions of tense

Covert present tense	Covert past tense
Homogeneous situation	Heterogeneous situation

(1) a. Covert present tense



b. Covert past tense



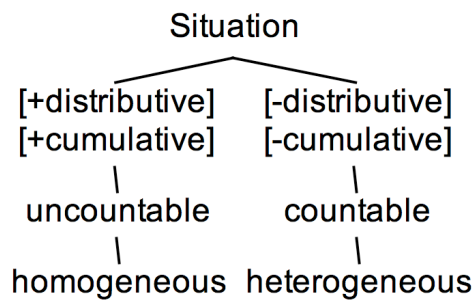
(Lin 2002: 284)

^{*} I would like to thank Chien-Yang Huang and Tai-Jung Lu for their help with data judgements.

▲ Homogeneous and Heterogeneous (Herweg 1991)

- ① Distributivity: the extension of a predicate has a uniform internal part structure
- ② Cumulativity: the extension of a predicate forms a continuous collection of overlapping entities

(2)



- ③ Homogeneous: states, activities
Heterogeneous: achievements, accomplishments

- Lin's theory cannot predict:
Sentences that have heterogeneous situations have present readings, such as the accomplishment sentences in (3).

- (3) a. ta gao-zi jiao de hen man
 he manuscript proofread DE very slow
- i. ‘He is proofreading the manuscript very slowly.’ (present)
- ii. ‘He proofread the manuscript very slowly.’ (past)

- b. ta zhe fu hua hua de hen man
he this CLF picture paint DE very slow
i. 'He is painting this picture very slowly.' (present)
ii. 'He painted this picture very slowly.' (past)

Lin (2002: 287)

- Chang (2018) improves Lin's theory by proposing:
 - ① The temporal reference of accomplishment sentences in Taiwanese Mandarin (TM) should be determined at actualisation level.
 - ② Unbounded (in Depraetere's (1995) sense) accomplishment situations in TM should be treated as activities.
 - ▲ Bounded situation: situation has terminated.
 - Unbounded situation: situation has not yet terminated.

According to Chang, unbounded accomplishment situations should be viewed as activities. Activities are seen as homogeneous situations and therefore, serve as covert present tense's complements, giving the present readings of (3a,b). By contrast, bounded accomplishment situations are heterogeneous situations, serving as covert past tense's complements, which ultimately project past tense sentences, as in the past readings of (3a,b).

- Sun's (2014) aspectually unmarked predicate generalisations¹:

① Aspectually unmarked eventive sentences only allow generic readings.

- (4) na ge nu-hai tiao ba-lei-wu
that CLF girl dance ballet
'That girl dances ballet.'
* 'That girl is dancing/danced ballet.'
?? 'That girl will dance ballet.'

Sun (2015: 76)

② Aspectually unmarked eventive sentences need an overt aspect marker to license their episodic readings.

- ▲ Eventive sentences: sentences with an eventive predicate (activities, accomplishments, achievements)

- (5) zho-tian na tiao yu si *(le)
yesterday that CLF fish die *(PERF)
'That fish died yesterday.'

Sun (2014: 47)

2. Problems

- Chang's remedies for Lin's theory still fail to predict the temporal reference of accomplishment *ba*-sentences in isolation, as examples in (6).

- (6) a. xiao-jun ba tou-fa tang-juan
Xiao-Jun BA hair perm curly
'Xiao-Jun permed her hair and her hair is curly now.' (present)
- b. lao-shi ba xiao-jun ma-ku
teacher BA Xiao-Jun scold cry
'The teacher scolded Xiao-Jun and she cried.' (past)

¹ The generalisations are called Bare Predicate Generalisations (BPGs) in Sun's original work. Due to the fact that my definition of 'bare' is different from Sun's, I use 'aspectually unmarked predicate generalisations' to avoid confusion.

- The final endpoints of the situations in (6a,b) are reached before the utterance time (UT) at actualisation level, but they still have different temporal references.
- Sun's generalisations cannot explain the temporal interpretation of accomplishment *ba*-sentences in (6) either.
 - Both the sentences (6a,b) do not have generic readings as Sun suggests. Rather, they have episodic readings.
 - The episodic readings of (6a,b) need not be licensed by any aspect marker.

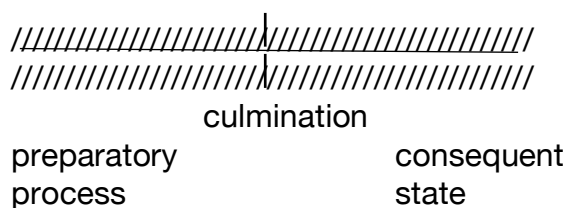
3. The indications of sentences in (6)

- Sun's generalisations cannot be applied to *ba*-sentences in TM:
 - ① In TM, aspectually unmarked bare accomplishment *ba*-sentences do not have generic readings. Additionally, only episodic readings are allowed.
 - ② In TM, aspectual licensing is not necessary for episodic accomplishment *ba*-sentences.
- On the secondary predicate's influence over the temporal reference of aspectually unmarked bare accomplishment *ba*-sentences in TM:
 - ① If the secondary predicate of the VP denotes a state (*juan* 'curly' in (6a)), then the present tense reading is the default temporal reference.
 - ② If the secondary predicate of the VP denotes an activity (*ku* 'cry' in (6b)), then the past tense reading is the default temporal reference.

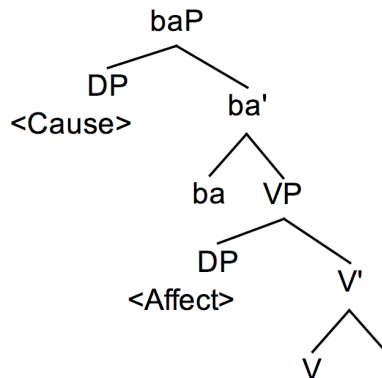
4. Analysis

- On the basis of Moens & Steedman's (1988) event ontology and Grimshaw's (1990) a-role (aspectual role), Rhys (1996) suggests:
 - ① As a functional head (coverb), *ba* assigns two a-roles, <Cause> and <Affect>, with <Cause> to the *ba*'s own specifier position and <Affect> to the DP in the specifier position of its VP complement (*ba*-DP), as in (8).

(7) Moens & Steedman's scheme of accomplishments

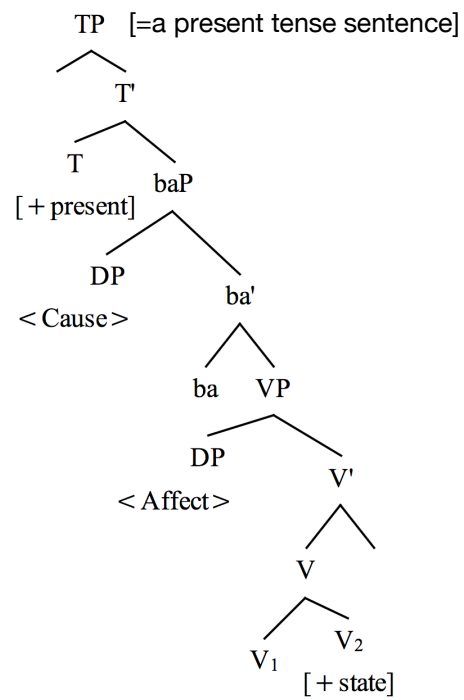


(8)

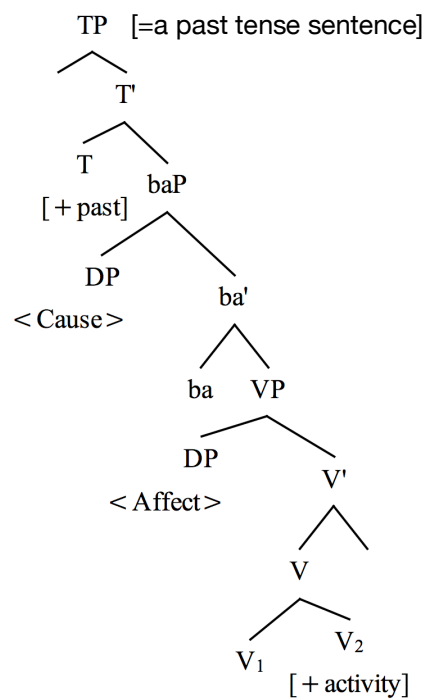


- ② Accomplishment *ba*-sentences have a complex event structure (preparatory process + consequent state), and *ba* picks out the participant of the second subevent, i.e. consequent state, which is predicated of the *ba*-DP.
- ③ According to Grimshaw, the cause argument of an accomplishment is always associated with the first subevent, preparatory process.
- Following Rhys, accomplishment verb compounds in (6a) *tang-juan* ‘perm curly’ and (6b) *ma-ku* ‘scold cry’ denote complex events. The respective main verbs (V_1) of (6a,b) are *tang* ‘perm’ and *ma* ‘scold’, which denote the preparatory process; the respective secondary predicates (V_2) *juan* ‘curly’ and *ku* ‘cry’ otherwise indicate the consequent state.
- In TM, it is the consequent state that determines the temporal reference of aspectually unmarked bare accomplishment *ba*-sentences.
 - ① If the secondary predicate is stative, as *juan* ‘curly’ in (6a), then the default temporal interpretation is the present tense, as in (9).
 - ② If the secondary predicate denotes an activity, as *ku* ‘cry’ in (6b), then the default temporal interpretation is the past tense, as in (10).

(9) Present tense interpretation



(10) Past tense interpretation



- More supporting data

(11) with a stative V_2

- Moens, M., & Steedman, M. (1988). Temporal Ontology and Temporal Reference. *Computational Linguistics*, 14(2), 15–28.
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