# On the position of perfective aspect: evidence from Yangchun Yue dialect

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[This is a preliminary work and comments are very much welcome.]

## 1. Background: the split-aspect approaches

- Splitting aspect in syntax
  - A general dichotomy: situation aspect vs. viewpoint aspect (MacDonald 2008, Travis 2010, *i.a.*)
    - □ Lower (below *v*P): situation aspect, i.e. inner aspect
    - □ Higher (generally above *v*P): viewpoint aspect, i.e. outer aspect
  - Fine-grained distinctions in Chinese
    - Within situation/inner aspect (Sybesma 2017, Lu, Lipták & Sybesma 2019)
    - □ Within viewpoint/outer aspect (Gu 1995, Soh 2008, 2009, Tsai 2008, Huang, Li & Li 2009)
  - Splitting *perfective aspect* 
    - Different markers: perfective *le* and experiential *guo* (Smith 1991)
    - Distinct positions:
       Tsai (2008): *guo* is higher (hereafter EXP), based on "incompleteness effects"
       Gu (1995): *le* is higher (and perhaps HLL 2009 as well) (hereafter PRF)

## ➢ Two observations and two claims

- #1: Suffix stacking in Yangchun (陽春) Yue dialect
  - PRF is the highest aspectual projection within TP, higher than distributive marker DIST and experiential EXP
- #2: Conditioned incompleteness effects of perfective markers

"Incompleteness effects" of perfective markers should be attributed to the (non-)existence of other event-argument licensing devices (including operators), rather their syntactic positions

## ➢ Roadmap

- \$2: Competing proposals for perfective markers
- \$3: Suffix stacking in Yangchun Yue dialect
- \$4: Conditioned incompleteness effects of perfective markers
- \$5: Residue: Hong Kong Cantonese

#### 2. Competing proposals for perfective markers

- Competing proposals
  - Tsai (2008): "incompleteness effects"
- (1) ?Akiu na-le shu.

Akiu take-Prf book "Akiu took books."

- (2) Akiu na-guo shu.Akiu take-Exp book"Akiu took books before."
  - "Incompleteness effects" arise when the event argument is not licensed, which can be done by tense anchoring (i.e. licensing through T)
  - $\square$  *le* is lower than *v*P and cannot (covertly) raise to T for tense anchoring
  - □ *guo* is higher than *v*P and covertly raises to T for tense anchoring
  - $[T [_{AspP1} guo [_{\nu P} v [_{AspP2} le ...]]]]$
  - Potential problem (#1): it wrongly predicts the linear order of *guo* EXP and *le* PRF
  - Given the verb head movement approach adopted by Tsai (2008), V-le-guo should be generated, rather than V-guo-le which can be found in natural data (=(3)). This point is also noted in Gu (1995).
- (3) Ni kan-guo-le xuduo meijing (BCC corpus)
  2SG see-EXP-PFV many beautiful.scenery
  "You have seen a lot of beautiful scenery."
  - Gu (1995): *le* PRF may follow *guo* EXP, but not the other way around
- (4) Ta yijing kan-guo-le nei-ben shu le he already read-exp-prf that-cl book sfp "He has already read that book."
- (5) \*ta yijing kan-le-guo nei-ben shu le.he already read-exp-prf that-cl book sfp
  - □ Semantic explanation: "[s]ince *-le* is not confined to the completion of the event involved, it naturally has a wider scope over *-guo*" (Gu 1995:52)
  - □ Syntactic account: [Asp<sub>le</sub> [Asp<sub>guo</sub> [<sub>VP</sub> ... ]]]
  - □ Mirror Principle (Baker 1985): the suffix order mirrors syntactic hierarchy V-guo-le ↔ [le [guo [V]]]
  - □ Resolves problem #1.

- Potential problem (#2): the scopal relation of *le* PRF and *guo* EXP is not as clear as it might seem to be, given that both amount to a perfective reading (compare (6)-(7) to (4))
- (6) Ta yijing kan-le nei-ben shu le he already read-exp-prf that-cl book sfp "He has already read that book."
- (7) Ta yijing kan-guo nei-ben shu le he already read-exp-prf that-cl book sfp "He has already read that book."
  - Potential problem (#3): we couldn't capture the differential incompleteness effects of *le* PRF and *guo* EXP by Asp-to-T movement
- Quick responses to the three problems
  - #1: V-EXP-PRF order seems to hold cross-dialectally as in Yangchun Yue dialect.
  - #2: The interaction of perfective markers and a distributive marker (hereafter DIST) in Yangchun Yue dialect makes the scopal relation clearer.
  - #3: Close examination on the incompleteness effects of perfective markers suggests that *guo* EXP does not always "salvage" an "incomplete" sentence.

## 3. Suffix stacking in Yangchun Yue dialect

- Suffix stacking in Yangchun Yue dialect
  - Yangchun (陽春) Yue dialect
    - Southern west Guangdong Province, belongs to 高陽片
    - Demonstrate (春城) and two other consultants (春城 and 陂面)
  - Allows multiple suffix stacking
    - PRF and EXP (just like Mandarin, cf. 看過了)
    - □ Perfective *pou45* (Gan & Xu 2013, Wang 2020)

(8) 佢睇過通嗰泥書咯

Kvi212tvi212-ko33-pou45ko212 nai45 si45lo33.3SGread-EXP-PRFthatCL.PLbookSFP"He has read these books."

□ DIST and EXP (just like Hong Kong Cantonese, cf. 睇過晒)

#### (9) 佢睇<mark>過齊</mark>嗰泥書咯

Kvi212tvi212-ko33-cvi2ko212 nai45 si45lo333SGread-EXP-DISTthatCL.PLbookSFP"He has read all these books."

□ PRF, DIST and EXP

(10) 佢睇過齊逋嗰泥書咯

Kvi212 tvi212-ko33-cvi2-pou45ko212 nai45 si45lo33.3SGread-EXP-DIST-PRFthatCL.PLbookSFP"He has read all these books."

• Rigid ordering

(11)a. \*喫逋過

\**hvt45-pou45-ko33* eat-PRF-EXP

- b. \*喫齊過 \**hvt45-cvi2-ko33* eat-DIST-EXP
- c. \*喫過逋齊 \**htt45(-ko33)-pou45-cvi2* eat-EXP-PRF-DIST
- Maximum post-verbal slots: 3 Potential post-verbal slots: 4

(12)	V –	C – Su	ıffix1 – <mark>S</mark>	Suffix2 –	Suffix3	
a.	打-	爛 -	過 –	齊 -		泥玻璃窗
b.	打-	爛 -	-	齊 -	逋	泥玻璃窗
с.	打 -	- 3	過 –	齊 -	逋	泥玻璃窗
d.	*打-	爛 -	過 –	齊 -	逋	泥玻璃窗
	hit	break I	EXP	DIST	PRF	CL.PL-glass.window

## Suffix stacking and scope

- The scopal relations to be demonstrated:
  - □ (I) *cvi2* 齊 <u>DIST</u> > *kɔ33* 過 EXP
  - □ (II) pou45 逋 PRF > cvi2 齊 DIST
  - □ (III) pou45 逋 PRF > cvi2 齊 DIST > ko33 過 EXP
- Cri2 齊 DIST
  - Acts like a distributive marker / universal quantifier, just like Cantonese *saai* 晒 (T. H. Lee 1994, Tang 1996, P. Lee 2012, Law 2019, *i.a.*)

Quantifies over objects:

## (13) 佢睇齊乃<u>三本書</u>, (\*但係本本都係得睇一半)

3SG read-DIST that three-CL-book but CL-CL DOU COP only read half "He read all those three books, (\*but for each book he just read half of it)."

□ Quantifies over subjects:

#### (14)**佉**[k<sup>h</sup>iɐk5]去齊北京啰

3SG.PL go-<mark>DIST</mark> Beijing SFP "All of them has gone to Beijing."

- (I) Ko33 過 EXP and cvi2 齊 DIST
  - A little excursion to (Hong Kong) Cantonese:
     Saai 晒 DIST scopes over gwo 過 EXP and amounts to truth-conditional differences as in the contrast below (adapted from T. T.-M. Lee 2020:18)

(15)阿明試過食 <mark>晒</mark> 啲蛋糕
Aaming <mark>si-gwo</mark> sik- <mark>saai</mark> di daangou
Aaming try-EXP eat-DIST CL.PL cake
"Aaming once ate all the cakes."

(16)阿明食過晒啲蛋糕

[HK Cantonese] EXP > DIST

[HK Cantonese] DIST > EXP

Aaming sik-gwo-saai di daangou Aaming eat-EXP-DIST CL.PL cake "Aaming has eaten/tasted all the cakes."

- When EXP > DIST, the higher EXP simply indicates that there is a (past) bounded situation of Aaming eating all the cakes. It does not affect the universal quantification of DIST on the object and all the cakes need to be eaten (completely).
- □ When DIST > EXP, it is the bounded event "has eaten x" being distributed, i.e. for every cake x, there is a bounded event that Aaming has eaten x. He might not have necessarily finished the whole piece for every cake, and thus amounts to a "tasted all" reading.
- The distinction of termination and completion in Mandarin (Smith 1991), which also applies to Chinese languages in general

## (17)阿明食過舊蛋糕,但係未食完

Aaming sik-gwo gau daangou, daanhai mei sik-jyun Aaming eat-EXP CL cake but not.yet eat-finish "(Lit.:) Aaming has eaten the cake, but he hasn't finished it."

- □ Going back to Yangchun dialect: ko33 過 EXP and cvi2 齊 DIST
- Yangchun dialect does not have si-gwo 試過 '(lit.) try-EXP'

[HK Cantonese]

- $\neg$  V-*k*233-*cvi*2 exhibits DIST > EXP scope and shows truth-conditional difference with ALREADY > DIST
- (18) 佢已經睇齊乃三本書, (\*但係本本都係得睇一半) 3SG already read-DIST that three-CL-book but CL-CL DOU COP only read half "He has read all those three books, (\*but for each book he just read half of it)." (19) 佢睇過齊乃三本書,(但係本本都係得睇一半) 3SG read-EXP-DIST that three-CL-book but CL-CL DOU COP only read half
  - "He read all those three books, (but for each book he just read half of it)."
  - (II) Pou45 逋 PRF and cvi2 齊 DIST •
    - □ V-*cvi2-pou45* has the same truth condition as ALREADY > DIST, showing that PRF scopes over DIST, which conforms to the mirrored word order.

## (20) 佢睇齊逋乃三本書,(\*但係本本都係得睇一半)

3SG already read-DIST-PRF that three-CL-book but CL-CL DOU COP only read half "He has read all those three books, (\*but for each book he just read half of it)."

Note: PRF does not block subject quantification of DIST (cf. the blocking effects of verbal negation and modals to saai in Cantonese, P. Lee 2012)

#### (21) **佉**[k<sup>h</sup>iek5] 去齊逋北京啰

3SG.PL go-DIST-PRF Beijing SFP

"All of them has gone to Beijing."

- (III) Pou45 逋 PRF, ko33 過 EXP and cvi2 齊 DIST •
  - □ V-*k*233-*cvi*2-*pou*45 does not require the all the books to be read thoroughly, showing that EXP is scoped under **DIST** and subsequently under **PRF**.
  - Roughly, the sentence means: "there is a (past) bounded situation where for every book x, there is a bounded event that Aaming has read x."

## (22) 佢睇過齊逋乃三本書,(但係本本都係得睇一半)

3SG already read-EXP-DIST-PRF that three-CL-book but CL-CL DOU COP only read half "He has read all those three books, (but for each book he just read half of it)."

- $\geq$ Taking stock
  - An articulated *v*P periphery
    - [TP....[PRFP PRF-pou45 逋 [DIST-cei2 齊 [EXP-ko33 過 [vP...]]]]]
    - Problem #1: Ordering resolved
    - Problem #2: The scopal relations (I-III) are made clear with the presence of distributive marker
  - How about problem #3 (incompleteness effects)?

PRF > DIST

PRF > DIST > EXP

ALREADY > DIST

DIST > EXP

#### 4. Conditioned incompleteness effects of perfective markers

- Seeking an alternative account for incompleteness effects of perfective markers
  - Caveat: NOT an alternative approach for incompleteness effects (Tsai 2008)
    - Adopt Tsai's event argument licensing approach
    - □ Suggest an alternative account for perfective markers, which involves no Asp-to-T raising
- ➢ (In)completeness effects of perfective markers
  - Mandarin *le* PRF exhibits incompleteness effects, which can be salvaged by temporal adverbials

#### (23)?他吃了飯

Ta chi-le fan 3sg eat-PRF rice "He has eaten." (24)他剛吃了飯

> Ta gang chi-guo fan 3sg just.now eat-EXP rice "He has just eaten."

- Mandarin guo EXP does not always render a sentence "complete"
  - □ Smith (1991): *guo* EXP is ambiguous between specific and indefinite "experiential" reading
  - □ Episodic vs. generic reading
  - □ Under episodic reading, *guo* EXP behaves the same with *le* PRF, i.e. it also shows incompleteness effects which can be salvaged by adding a temporal adverbial

### (25)(?)他吃過飯

Ta chi-guo fan 3sg eat-EXP rice i. ?"He has eaten." (episodic reading) ii. "He has eaten rice before." (generic reading) (26) 他剛吃過飯 Ta gang chi-guo fan 2cg junt now oot EXP rice

3sg just.now eat-EXP rice "He has just eaten." (episodic reading)

- □ If the tense anchoring of *guo* is achieved by a *syntactic* Asp-to-T movement (in LF), i.e. it is driven by syntactic motivations (e.g. feature-checking), then the effect of meaning on incompleteness is unexpected.
- □ We might posit a feature [*u*EXP] on T which agrees with [*i*EXP] *guo* and attracts movement. But this involves stipulation. Also, *guo* is not tied with experiential reading. It is also compatible with specific/episodic reading.

- Generic operator and completeness
  - Sentences with generic reading are "complete"

(27)貓捉老鼠 mao zhuo laoshu cat catch rat
"Cats catch rats"
(28)長頸鹿吃樹葉 zhangjinglu chi shuye giraffe eat leaf

"Giraffes eat leaves."

- □ Generic affixal quantifier *hoi* 開 in Cantonese:
- No incompleteness, i.e. type I affix in Tang's 2018 sense (note: Tang 2018 treats inchoative hoi as type III affix and does not mention generic/habitual *hoi*)

## (29)佢睇開報紙

[HK Cantonese]

Keoi tai-hoi bouzi 3sg read-gen newspaper "He reads newspapers."

□ *Guo* is licensed by a covert generic operator which gives rise to the experiential/generic reading. The generic operator quantifies the event argument and renders the sentence "complete".

#### (30)(作為亞洲人,)[GEN [他吃過飯]]

Zuowei Yazhou ren, Ta chi-guo fan 3sg eat-EXP rice "He has eaten rice before."

*Le* cannot be licensed by a generic operator, since it marks event definiteness (Chan 1996, Tang 1996) and resists further quantification

## (31)\*作為亞洲人,他吃了飯

Zuowei Yazhou ren, ta chi-guo fan As Asia person 3sg eat-EXP rice "As an Asian, he has eaten rice before."

- (In)completeness effects with perfective stacking
  - □ Stacking of *guo* and *le* significantly improves the sentences with *episodic* reading

(32)他吃過了飯 Ta chi-guo-le fan 3sg eat-EXP-PRF rice "He has already eaten."
(33)?他吃了飯

> Ta chi-le fan 3sg eat-PRF rice

(34) (?)他吃過飯 Ta chi-guo fan 3sg eat-EXP rice

□ When *le* takes a resultative verb complement (i.e. a telic predicate), there is no incompleteness effects. *Guo* in (32) is performing the same function as RVC.

(35)他打死了人

Ta da-si-le ren 3sg hit-die-PRF person "He has beaten someone to death."

## 5. Residue: Hong Kong Cantonese

Suffix stacking in Hong Kong Cantonese

• Lack of Yangchun-type stacking, despite the existence of (rough) counterpart particles

(36)\*佢睇過晒咗呢三本書

Int.: "He has read all the three books."

• Maximum post-verbal slots: 2 Potential post-verbal slots: 3

(37)	V –	С – 5	Suffix1	– Su	ffix2
(38)a.	油 -	花 -	過	-	
b.	油 -	花 -		- F	西
с.	油 -	-	過	- F	西
d.	?油 -	花 -	過	- F	西
	paint	stain	EXP	Ι	DIST

(39)?佢油花過晒呢幾幅牆

□ Syllable constraints?

(40)?佢打爛過晒啲玻璃窗	( <sup>?</sup> V-σσσ)
(41)??佢洗乾淨過晒呢啲衫	( <sup>??</sup> V-σσσσ)
(42) 佢洗乾淨咗呢啲衫	$(V-\sigma\sigma\sigma)$

Denote the cases: maai-saai 埋晒, faan-saai 翻晒, and see Wong (2015) for more

• Restricted stacking

PRF and EXP

(43)(\*)食過咗餃子就要做野喇
(44)食過咗只落咗佐料嘅燒雞之後,方蕩眼中嘅世界成都變咗(Blog, 2019)<sup>1</sup>
(45)睇過咗標題,愛上咗個絲打(Online forum, 2017)<sup>2</sup>

#### PRF and DIST

(46)\*睇咗晒呢三本書

(47)\*睇晒咗呢三本書

(48)但係睇<mark>晒</mark>咗個改動,發覺成篇都係用語體中文寫(Wiki, 2014)<sup>3</sup>

(49)无论睇晒咗. 定係睇到一半睇唔落去. 网友嘅反应都係. 迷惑!!!(News, 2020)<sup>4</sup>

(50)我睇晒咗,英文版。(Forum, 2007)<sup>5</sup>

#### □ PRF, EXP and DIST

(51)\*睇過晒咗呢三本書

- (52)\*睇過咗晒呢三本書
  - Why can't Cantonese *zo* PRF stack with other particles?
    - Complementary distribution with *jau* 'have'
- (53)\*<u>有</u>睇咗呢三本書

(54)\*<u>有</u>睇咗呢三本書

□ Jau 'have' scopes over 過晒

(55) 有睇過晒呢三本書

<sup>&</sup>lt;sup>1</sup> <u>https://www.itread01.com/content/1556827125.html</u>

<sup>&</sup>lt;sup>2</sup> <u>https://forum.hkgolden.com/thread/6745695/page/2</u>

<sup>&</sup>lt;sup>3</sup> https://zh-yue.wikipedia.org/wiki/User\_talk:SC96

<sup>&</sup>lt;sup>4</sup> https://k.sina.cn/article\_1736039387\_6779dbdb01900qbgb.html, or https://kknews.cc/entertainment/n2qjon8.html

<sup>&</sup>lt;sup>5</sup> <u>http://bbs.m.cantonese.asia/archiver/tid-7110.html?page=2</u>

- □ Wang (1965): Mandarin *le* and *meiyou* are suppletion
- Cantonese *jau* 'have' and *zo* PRF are the same perfective head with different phonological properties?
   (i.e. affixal vs. non-affixal)
- Problem: *jau* 'have' expresses existence which is not the same as perfective aspect

Remaining problems (and interesting data) in Yangchun dialect

- Co-occurrence of *pou45* 逋 PRF with stative predicates and progressive aspect 緊
- No incompleteness effect for *pou45* 逋 PRF

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