

A conjunction approach to phrasal *wh*-doublets in Cantonese

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Introduction: Object of study

- *Wh*-expressions in Cantonese can be reduplicated to convey a non-interrogative, existential meaning.
 - (1) Bare *wh*-doublets (Wong 2018)
 - a. 阿明話 [佢嚟自助餐食咗 乜野乜野] ，幾巴閉。
 - b. 陳師奶話 [邊度邊度 買餸平] ，唔買就走寶喇。
- As with other attested forms of *wh*-doublets, only the *wh*-expressions are reduplicated, i.e., *wh-wh*.
 - Japanese & Yaeyaman (Sudo 2008, 2013; Davis 2016)
 - Korean (Chung 1999; Kim 1999)
 - Mongolian (Jang and Lim 2024)

Introduction: Object of study

- We report a related, but less discussed, form of *wh*-doublets in Cantonese, namely, **clausal *wh*-doublets**.

(2) Clausal *wh*-doublets

- 阿明話 [佢嚟自助餐 食咗乜野食咗乜野] ，幾巴閉。
 - 陳師奶話 [邊度買餸平邊度買餸平] ，唔買就走寶喇。
- While this phenomenon has received little attention in Cantonese, it has not been reported in other languages allowing *wh*-doublets so far.

Introduction: Object of study

- Some more naturally occurring data:
 - (3) a. 成班衝出黎話 邊個黎邊個黎
 - b. 減肥最重要唔係限制 食乜食乜
 - c. 大肚嘅時候成日都講話遲啲要同豬仔去 邊度玩邊度玩
- Clausal *wh*-doublets are as productive as bare *wh*-doublets.

Road map

- The plan for today:
 - ① Brief comparison between bare and clausal *wh*-doublets
 - ② Licit forms of clausal *wh*-doublets
 - ③ Plural readings of clausal *wh*-doublets
 - ④ A non-uniform approach to bare and clausal *wh*-doublets

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Bare vs. clausal *wh*-doublets: Similarities

- Both types of *wh*-doublets share similar productivity and are attested in all kinds of *wh*-expressions.

(4) Arguments

- 乜／乜野／咩
- 邊個／乜水
- 邊度
- 邊樣（野）

(5) Adjuncts

- 幾
- 點樣
- 幾時
- 點解／做乜

Bare vs. clausal wh-doublets: Similarities

- Both convey an existential interpretation, instead of an interrogative one.
- (6) Incompatibility with interrogative embeddings
- a. *阿明頭先問／想知道 邊樣好邊樣好 。
 - 阿明頭先話 邊樣好邊樣好 。
 - b. *唔知阿明講到佢 幾勁幾勁 呢
 - 阿明頭先講到佢 幾勁幾勁 。
- (7) Compatibility with polarity question particles
- 阿明唔係話佢尋晚 食咗乜野食咗乜野 咩？

Bare vs. clausal *wh*-doublets: Similarities

- In most cases of *wh*-doublets, a quotative context is preferred.
- But strictly speaking, it is not a hardwired requirement.

(8) Quotative implication (Wong 2018)

The use of a *wh*-doublet implies a quotative context such that the corresponding information has been received in another discourse by any means.

- (9) a. 減肥最重要唔係限制 食乜食乜 。
- b. 達斯拿根本唔差，你覺得桑尼會好過佢？就因為佢踢英超點勁點勁？
- c. 手語老師教我隻手要 點樣郁點樣郁 先打到手語。

Bare vs. clausal *wh*-doublets: Differences

Type	Bare <i>wh</i> -doublets	Clausal <i>wh</i> -doublets
Form	<i>wh</i> + <i>wh</i>	V + <i>wh</i> , <i>wh</i> + V, ...
Interpretation	Existential	
Presupposition	Source known to the speaker	
→ Plurality	number-neutral	plural only
→ Derivation	Reduplication morpheme	Phrasal Conjunction

- Before we talk about **plurality** and **derivation**, we first discuss how long a *wh*-string can be doubled in the clausal case.

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Size: Upper bound (CP)

- The size of doubled *wh*-string can be as large as CP.

- (10) a. Manner + VP:
每次開飯，佢都催我快啲食乜野快啲食乜野。
- b. SVO:
阿明成日話邊個食素邊個食素，搞到冇晒營養。
- c. Evaluative adverbs + TP:
阿明成日強調好在邊個有黎好在邊個有黎，
如果唔係就大件事喇。

Size: Lower bound (vP)

- To test the lower bound, the double object construction is used.
- From VP Shell Hypothesis (Larson 1988), double object constructions are regarded as vP.
- The size of doubled *wh*-string can be as small as vP, but not any internal structure.

Size: Lower bound (ν P)

- The size of doubled *wh*-string can be as small as ν P.

(11) DO-IO

- a. *VP in ν P: *阿明成日都話

阿媽畀咗 乜野佢乜野佢 / 本書邊個本書邊個 。

- b. ν P shell: 阿明成日都話

阿媽 畀咗乜野佢 畀咗乜野佢 / 畀咗本書邊個 畀咗本書邊個

(12) IO-DO

- a. ??VP in ν P: ??阿明成日同人講

佢教過 阿芬乜野阿芬乜野 / 邊個數學邊個數學 。

- b. ν P shell: 阿明成日同人講

佢 教過阿芬乜野 教過阿芬乜野 / 教過邊個數學 教過邊個數學

Size: Lower bound (ν P)

- The size of doubled *wh*-string can be as small as ν P.

(13) DO-P-IO

- ??VP in ν P shell: ??阿明成日同人講
佢送咗 乜野畀老師乜野畀老師 。
- ν P shell: 阿明成日同人講
佢送咗乜野畀老師送咗乜野畀老師 。
- ?V' in ν P shell: ?阿明成日同人講
佢送咗啲書 畀邊個畀邊個 。
- *VP in ν P shell: *阿明成日同人講
佢送咗 啲書畀邊個啲書畀邊個 。
- ν P shell: 阿明成日同人講
佢送咗啲書畀邊個送咗啲書畀邊個 。

Size: Lower bound (vP)

- Coverbs are VP modifiers of VPs (Francis and Matthews 2006).
- We distinguish two prepositions from coverbs in terms of their suffix-taking ability. Only the latter can partake in clausal *wh*-doublets, agreeing with vP being the lower bound.

(14) Coverbs in clausal *wh*-doublets

- a. 個同事話上星期 喺邊度喺邊度 食龍蝦。total
食咗三餐咁多。
- b. 細佬話哥哥上星期 用乜野用乜野 打佢。

(15) Prepositions in clausal *wh*-doublets

- a. * 將乜野將乜野 放入垃圾筒 *我將過乜野放入垃圾筒
- b. ?? 由邊度由邊度 起行 *我由過邊度起行

Size: Constituency

- It is important to maintain constituency when doubling the *wh*-string.

(16) Non-constituents

- *阿明成日都同我講 邊個去邊個去 日本。
- *阿明成日叫人 點樣整點樣整 芝士蛋糕。

(17) Constituents

- 阿明成日都同我講 邊個去日本邊個去日本。
- 阿明成日叫人 點樣整芝士蛋糕點樣整芝士蛋糕。

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Co-occurrence with frequency adverbs

- Given clausal *wh*-doublets usually co-occur with verbs of thinking/saying, they are most natural in contexts where there are multiple thinking/saying events, especially with the presence of frequency adverbs.

- (18) a. 阿明成日話佢 邊度買衫邊度買衫
- b. 阿明不斷投訴 邊個嘈邊個嘈
- c. 阿明喺嗰讚 邊間餐廳好食邊間餐廳好食

Obligatory plurality

- There is an obligatory plural reading on clausal *wh*-doublets.

(19) Incompatibility with singular contexts - sole referent

- 新聞有提到最受歡迎男歌手金獎係邊個邊個拎。
(但我唔記得咗佢講邊個。)
- #新聞有提到最受歡迎男歌手金獎係邊個拎邊個拎。
(但我唔記得咗佢講邊個。)
- 阿明有提到嗰個同學姓乜野乜野。
(但個姓太難讀我就唔重覆喇。)
- #阿明有提到嗰個同學姓乜野姓乜野。
(但個姓太難讀我就唔重覆喇。)

Obligatory plurality

- There is an obligatory plural reading on clausal *wh*-doublets.

(20) Incompatibility with singular contexts - one-time event

- 阿明喺佢既遺言透露咗佢既親生父親係 幾時幾時 死。
- #阿明喺佢既遺言透露咗佢既親生父親係 幾時死幾時死。
- 份攻略講咗呢把劍只可以 點樣點樣 拎。
- #份攻略講咗呢把劍只可以 點樣拎點樣拎。

Obligatory plurality

- There is an obligatory plural reading on clausal *wh*-doublets.

(21) Incompatibility with singular contexts - degree

- 阿明話扭計骰最少要扭到 幾快幾快 先破到世界紀錄。
- #阿明話扭計骰最少要 扭到幾快扭到幾快 先破到世界紀錄
- 頭先把間尺度到阿明 幾高幾高 ，證明佢講大話。
- #頭先把間尺 度到幾高度到幾高 ，證明佢講大話。

Nature of plurality: Distributivity

- Clausal *wh*-doublets allow a distributive interpretation over plural subjects.

- (22) a. 新聞有提到最受歡迎男歌手金銀銅獎係邊個拎邊個拎。
 (我就唔逐一講喇。)
- b. 政府文件有紀錄歷屆六合彩係邊個一注中邊個一注中。
 (我就唔逐一講喇。)
- c. 阿明喺佢既遺言透露咗佢嘅親生父母幾時死幾時死。
 (實際係幾時我就唔方便透露。)
- d. 份攻略講咗呢幾把劍只可以點樣拎點樣拎。

- This property can be handled by the distributive operator proposed by Lasersohn (1998).

Nature of plurality: Event plurality

- Crosslinguistically, an event plurality marker shows an effect of distributivity over various dimensions (e.g. time, space, and participants to the events) (Hofherr and Laca 2012).
- For Cantonese *wh*-doublets, the dimension of distributivity is contingent on the choice of the *wh*-expression.
 - e.g. 幾時 - time, 邊度 - location, 邊個/乜嘢 - participants.

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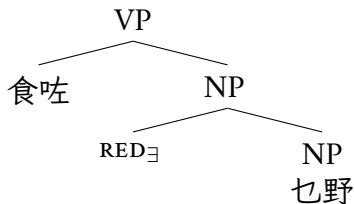
⑤ Derivation

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Derivation

- Bare *wh*-doublets, as in many languages, arguably involve a reduplication morpheme (i.e., RED) in the syntax.
- It applies to *wh*-expressions, resulting in doublets.
- An illustration (Lee and Wong 2018)

(23) Bare *wh*-doublets



Derivation

- Given that bare and clausal doublets differ in plurality, we argue that they are derived differently, despite surface similarities.

(24) **Bare *wh*-doublets:**

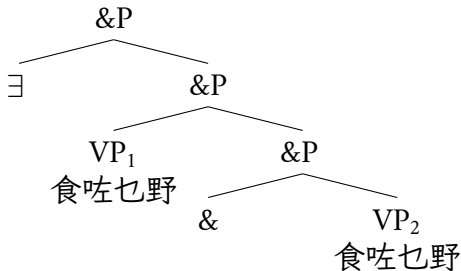
- A RED morpheme that is phonological dependent on the adjacent *wh*-expressions.
- It imposes no restriction/requirement on plurality.

(25) **Clausal *wh*-doublets:**

- A covert conjunction morpheme that conjoins two clauses.
- It conveys plural readings by virtue of the general nature of conjunction.

Derivation

(26) Clausal *wh*-doublets



- The plural reading comes from the two VPs denoting different events.
- Conjunction applies to constituents (hence *Adv-V Adv-V O)

Derivation

- The proposed covert conjunction morpheme applies to clauses, not PPs.

- (27) a. 將：*我將呢本書將個本書都拎走咗。
- b. 由：*今屆委員會由阿明由阿芬做委員。
- c. 從：*各位選手從香港島從九龍出發去新界。
- (28) a. 幫：你呢幾年幫阿明幫阿芬做咗咁多野，無功都有勞。
- b. 喺：阿明喺小學喺中學都教過幾年書。
- c. 對：你對住大海對住天空大叫都冇所用架。

A detour: Pluractionality marker?

- Note that verbal/event plurality can be contributed by pluractional markers (Laserson 1995; Hofherr and Laca 2012).

(29) The marker in ꞤHoan distributes the events over *places*

Titi i- **kí-'am-q||o** *(ki ci mOun)

Titi PAST kí[pl] eat-**around** (PREP place one)

'Titi eats around *(in one place).'

(Collins 2001:467, ex 31a)

(30) The marker in West Greenlandic distributes the events over *times*

Nuka ullaa-p tunga-a tama-at sanuqqut-**tar**-puq

N.ABS morning-ERG direction-SG.ABS all-3SG go.by-**repeatedly**-IND.[-TR].3SG

'Nuka went by repeatedly for the whole morning.'

(Van Geenhoven 2004: 146, ex 27)

A detour: Pluractionality marker?

- We suggest that event plurality is not (yet) grammaticalized in Cantonese.
 - = no covert pluractionality marker in Cantonese
- The dimension over which the plural events are distributed is fully transparent in clausal doublets.
 - ***Wh*-expressions specify the relevant dimensions.**
 - The range of dimension is equivalent to the range of *wh*-expressions.

A prediction

- Compared to a reduplication approach, a conjunction approach allows more flexibility of the two conjuncts.
- There are cases where the the two conjuncts are non-identical lexically.

- (31) a. 阿明話佢 想食龍蝦食乜 ，但佢邊有錢 。
- b. 阿明講過話呢把劍可以 抽獎拎點樣拎 ，有心一定拎到 。

- But they are still syntactically identical, and semantically coherent, following general contioins on conjunction.

A prediction

- The more specific conjunct must precede the one containing *wh*-expressions.

(32) a. *阿明話佢 食乜食龍蝦，但佢邊有錢。

b. *阿明講過話呢把劍可以 點樣拎抽獎拎，有心一定拎到。

- We are not sure from what this follows for now.

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Conclusion

- A novel form of existential *wh*-expressions
- Clausal *wh*-doublets contrast with bare *wh*-doublets in plurality.
- They are derived differently, i.e., conjunction vs. reduplication.
- A covert clausal conjunction morpheme is also suggested.
 - Multiple sluicing(-like) constructions (Adams and Tomioka 2012)
 - Bi-clausal approaches to Right Dislocation (Yip 2024)
- We leave its distribution and precise nature to our future research.

References I

- Adams, Perng Wang, and Satoshi Tomioka. 2012. “Sluicing in Mandarin Chinese: An instance of pseudo-sluicing.” In *Sluicing: Cross-linguistic perspectives*, edited by Jason Merchant and Andrew Simpson, 219–247. Oxford University Press.
- Chung, Daeho. 1999. “On Wh-doublets in Korean.” *Journal of the Linguistic Society of Korea* 25: 281–299.
- Davis, Christopher Michael. 2016. “Plurality and distributivity in Yaeyaman wh-questions.” *Semantics and Linguistic Theory* 25 (2003): 636.

References II

- Francis, Elaine J, and Stephen Matthews. 2006. “Categoriality and Object Extraction in Cantonese Serial Verb Constructions.” *Natural Language and Linguistic Theory* 24 (3): 751–801.
- Hofherr, Patricia Cabredo, and Brenda Laca. 2012. “Introduction.” In *Verbal Plurality and Distributivity*, edited by Patricia Cabredo Hofherr and Brenda Laca, 1–24. Berlin: de Gruyter.
- Jang, Seoyeon, and Jun Jie Lim. 2024. *Wh-reduplication in Korean and Khalkha Mongolian*.
- Kim, Soowon. 1999. “Sloppy/Strict Identity, Empty Objects, and NP Ellipsis.” *Journal of East Asian Linguistics* 8 (4): 255–284.

References III

- Larson, Richard. 1988. “On the double object construction.” *Linguistic Inquiry* 19 (3): 335–392.
- Lasersohn, Peter. 1995. *Plurality, Conjunction and Events*. Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Lasersohn, Peter. 1998. “Events in the Semantics of Collectivizing Adverbials.” In *Events and Grammar*, edited by Susan Rothstein, 273–292. Dordrecht: Kluwer Academic Publishers.
- Lee, Tommy Tsz-Ming, and Hok-Yuen Wong. 2018. “Epistemic indefinites and reportative indefinites in Cantonese.” In *Proceedings of the 32nd Pacific Asia Conference on Language, Information and Computation (PACLIC-32)*. Hong Kong: Association for Computational Linguistics.

References IV

Sudo, Yasutada. 2008. “Japanese *wh*-doublets and metalinguistic variables.” *Toron* 28:341–356.

Sudo, Yasutada. 2013. *Metalinguistic Quantification: Evidence from Japanese Wh-doublets*. Manuscript, University College London.

Wong, Hok-Yuen. 2018. *Wh-doublets in Cantonese*. MA thesis, The Chinese University of Hong Kong.

Yip, Ka-Fai. 2024. “A unified biclausal approach to right dislocation in Chinese.” Ms., Yale University.