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Introduction Levels Wide-scope Non-boolean Japanese Int vs. Ext Summary Conclusion Reference

Portner and Yabushita (1998)

On Quantification over Question

a Case Study of Exhaustification in Japanese

Yurie Hara

Japan Society for Promotion of Science Kyoto University University of Massachusetts, Amherst

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- A subordinate subject under an attitude predicate obtains different scope interpretations depending on:
 - whether the subject is Nominative-marked or;
 - Contrasitve/Topic-marked
- a. JOHN-dake-ga kuru to omotte-ita.
 John-only-Nom come Comp thought
 'I thought that only John would come.'
 - b. JOHN-dake-wa kuru to omotte-ita.
 John-only-Con come Comp thought
 'I thought that as for only John, he would come.'

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Wh-Questions			Goal		

- Another contrast between *dake-wa* and *dake-ga* is found in question formation:
- dake-ga is acceptable in a wh-question while dake-wa is not.
- (2) a. JOHN-dake-ga nani-o kai-mashi-ta-ka? John-only-Nom what-Acc buy-Hon-Past-Q 'What did only John buy?'
 - b. *JOHN-dake-**wa** nani-o kai-mashi-ta-ka? John-only-Con what-Acc buy-Hon-Past-Q

This paper

- supports the idea that the exceptive meaning denoted by *dake* is a conventional implicature.
- Shows that the *wa*-marked element takes scope higher than a proposition.
- accounts for the unavailability of *dake-wa* in wh-Q using Krifka's (2001) non-Boolean algebra of Speech Acts.

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Dake								

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Yoshimura 2005

Kuno 1999

dake primarily asserts the affirmative proposition while it secondarily asserts the negative one.

JOHN-dake-ga kita.
 John-dake-Nom came.
 primary: (affirmative) John came.
 secondary: (negative) No one else came.

• Yoshimura. [2005] provides an explanation for Kuno's [1999] observation, modeling her analysis after Horn's [2002] analysis of English *only*.

Yoshimura (2005)

Japanese *dake* asserts the prejacent (affirmative) proposition and entails the exceptive (negative) meaning.

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Contractor			liesture						
Conve	entio	nai imp	licature	;					

- I equate the notion of 'entailment' in Horn [2002] and Yoshimura. [2005] to 'conventional implicature' in the sense of Potts [2005].
- (3) is analyzed as having two independent meanings:
 - an assertion
 - 2 a conventional implicature.
- (3) JOHN-dake-ga kita. John-dake-Nom came.
 - a. Assertion: John came.
 - b. conventional implicature ('entailment' in Horn 2002 and Yoshimura 2005): No one else came.

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A									
Assun	nptic	n							

- Yoshimura's (2005) proposal is based on Horn's [2002] assumption:
- (4) Only the assertional content can be a complement of a higher functor.

Introduction Levels Wide-scope Non-boolean Japanese Int vs. Ext Summary Conclusion References
Example: Affirmative

- (5) a. In order to make an around-world trip,
 - b. EIGO-dake hanas-er-eba ii English-dake speak-able-if good
 - (i) 'It's OK if you can speak English.'
 - (ii) #'It's OK if you cannot speak any other languages.' (Yoshimura 2005)
 - What's embedded under the conditional is the affirmative content, 'you can speak English'.
 - (5–b) would be infelicitous if the negative/exceptive meaning is embedded under a conditional.
 - Hence, the affirmative content is the primary assertion.

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Interin	n Su	mmary	1						



Example: Negative

- If the context prefers that the negative proposition to be an argument, the use of *dake* turns out to be infelicitous.
- (6) #Nihongo-dake dekiru node, shuushoku deki-nakat-ta. Japanese-dake capable because, getting.employed capable-Neg-Past
 - a. #'I couldn't get a job because I can speak Japanese.'
 - Intended (unavailable): 'I couldn't get a job because I cannot speak any other languages.' (Satoshi Tomioka, p.c.)
 - The negative/exceptive meaning 'I cannot speak any other languages' cannot be under the scope of *because*
 - The negative/exceptive meaning is a conventional implicature,.

	lication over Question	On Qua	PS)	e Hara (JS	Yuri
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- (7) Interpretation of dake α :
 - a. α holds; and
 - b. No other alternatives from the set of relevant contrasts C other than α hold. (conventional implicature)
 - a sentence containing *dake* involves two commitments:
 - the positive one expressed by the prejacent proposition and
 - the negative one expressed by the exhaustive semantics of *dake*.

• What happens when dake is used with wa?

(assertion)

Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References

Post-propositional level

Portner and Yabushita [1998]

The *wa*-marked element serves as a link to the information expressed by the sentence.

Hara [2005, 2006]

The use of *wa* introduces the operator CON which takes the embedded proposition.

CON generates a conventional implicature which indicates a limitation of the speaker's knowledge.

Tomioka [2006]

Contrastiveness operates on speech acts, not propositions.

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Scope	Ś								
Coope									

- Introduction Levels Wide-scope Non-boolean Japanese Int vs. Ext Summary Conclusion References
 Scope
- (1) a. JOHN-dake-ga kuru to omotte-ita. John-only-Nom come Comp thought 'I thought that only John would come.'
 - b. JOHN-dake-wa kuru to omotte-ita.
 John-only-Con come Comp thought
 'I thought as for only John that he would come.'
 - the *wa*-marked subject is structurally higher than the embedded sentence.
 - As a consequence, the exhaustification expressed by *dake* in (1-b) also takes wide scope with respect to the embedded proposition.

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- (1-b) JOHN-dake-wa kuru to omotte-ita. John-only-Con come Comp thought 'I thought as for only John that he would come.'
- (8) Interpretation of (1-b):
 - a. I thought as for John that he would come; and
 - b. It is not the case that I thought as for other people that they would come.

- The use of *wa* generates a meaning at some post-propositional level.
- Hence, when *dake* is used with *wa*, the exhaustification takes place at some level higher than the propositional level.

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What'	s Ne	xt?						

• What happens when *dake-wa* is used with *wh*-questions?

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.								
Pair-li	st							

Krifka's (2001) proposal

Yurie Hara (JSPS)

The only operation involved in speech acts is conjunction.

Motivation

A pair-list reading of a *wh*-question is possible only with a universal quantifier.

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Exam	pie								
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Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References
Conju	nctio	n						

On Quantification over Question

- (9) Which dish did every guest make?
 - a. (Every guest made) pasta. (narrow-scope)
 - b. (Every guest made) his favorite dish.
 - c. Al (made) the pasta; Bill, the salad; and Carl, the pudding. (pair-list)
- (10) Which dish did most guests make?
 - a. Pasta. (narrow-scope)
 - b. Their favorite dish. (functional)
 - c. #AI (made) the pasta; Bill, the salad.

- The pair-list reading is derived by universal quantification over the question act.
- It is possible since universal quantification is reduced to conjunction.
- (11) Which dish did every guest make? (Krifka 2001)
 ⇔For every guest x: Which dish did x make?
 ⇔Which dish did Al make, and
 which dish did Bill make, and
 which did Carl make?

(pair-list)

(functional)

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Disjur	octior	۱						

- Other quantifiers like most cannot operate over question acts, and
- They fail to have a pair-list reading (13).
- They involve disjunction.

#Which dish did most guests make? (Krifka 2001)
 ⇔For most guests x: Which dish did x make?
 ⇔Which dish did Al make and which dish did Bill make, or
 which dish did Al make and which dish did Carl make, or
 which dish did Bill make and which dish did Carl make?

Introduction Levels Wide-scope Non-boolean Japanese Int vs. Ext Summary Conclusion References Conversational Game

Speech acts as moves in conversational games

Speech acts lead from one set of social commitments to another set. (Wittgenstein, 1958)

- Conjoined acts [A & A'](s) \rightarrow
 - the union of the commitments that A(s) and A'(s) would have led to:
 - ► A(s) ∪A(s')
 - the same type
- (13) a. Which dish did Al make? –The pasta.Which dish did Bill make? –The salad.
 - b. Which dish did Al make? And which dish did Bill make? Al (made) the pasta, and Bill the salad.

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- A disjunction of A and A' at the state s \rightarrow
 - a set of commitment states which we would have to understand disjunctively,
 - ► {A(s), A(s')}
 - higher type
 - difficult to keep track of
- (14) Have you ever been to Sweden or have you ever been to Germany? (Krifka, 2001)

- Krifka [2001] further argues that negation is not involved in the algebra of speech acts.
- If negation were available, then we could derive disjunction from the combination of conjunction and negation by De Morgan's law:
- $\neg [A\&A'] = \neg A \cup \neg A'.$

Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References
Interin	n Su	mmary	3					

- It's possible to quantify into question acts.
- However, conjunction is the only operation involved in the computation of speech acts
- Neither negation or disjunction is possible.



- (2-b) *JOHN-dake-wa nani-o kai-mashi-ta-ka? John-only-Con what-Acc buy-Hon-Past-Q
 - The use of *-wa* forces the exhaustification by *dake* to take place over question acts.
 - dake-wa triggers negation of alternative acts.
 - This is not a valid move in terms of conversational games.
- (15) Intended Interpretation of (2-b)
 - a. As for John, what did he buy and
 - b. #It is not the case that as for other people, what did they buy?

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Intens	ntensional vs. Extensional										

- Following Groenendijk and Stokhof (1984), Krifka categorizes question-embedding verbs into *intensional* and *extensional* verbs.
- Intensional verbs allow a pair-list reading only with a universal quantifier.
- Extensional verbs can have a pair-list reading with other quantifiers as well.
- (16) a. Doris asked which dish √ every guest/#most guests made. (intentional)
 - b. Doris found out which dish √ every guest/√ most guests made. (extensional)

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Intens	Intensional										

- (17) *Doris asked [most guests [*Quest* [which dish they made]]](16-a)
 - Intensional verbs directly embed a question act, hence pattern like matrix questions.
 - The quantified NP *most guests* attempts to quantify into question acts.
 - Most guests involves disjunction, which is not a valid operation for speech acts.

Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References
Exten	siona	al						

- (18) Doris found out [most guests [**TA** [*Quest* [which dish they made]]]] (16-b)
 - Extensional verbs introduce a type-shifting operator TA
 - TA shifts the question act into the set of propositions that are true answers to the question act.
 - Consequently, extensional verbs support quantifiers other than a universal quantifier
 because their complements are Realean objects
 - because their complements are Boolean objects.
- (19) TA(QuestionAct) = {p : p is a true answer to QuestionAct}

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	Non-boolean Japanese		Summary	Conclusion	Relefences					
Embodded Question acts										

- (20-a) *Mary-wa [ano-mise-de JOHN-dake-wa nani-o kat-ta-ka] Mary-Top that-store-at John-only-Con what-Acc buy-Past-Q Bill-ni kii-ta (intentional) Bill-Dat ask-Past
 - *dake* is quantifying into a question act, which results in negating alternative question acts.
 - As a consequent, (20-a) is predicted to be unacceptable since it involves an illicit operation over speech acts.



• A parallel pattern is observed for Japanese exhaustification.

- The intentional verb *kii* 'ask' cannot embed a *wh*-question which contains *dake-wa*,
- while the extensional verb wakat 'find out' can.
- (20) a. *Mary-wa [ano-mise-de JOHN-dake-wa nani-o kat-ta-ka] Mary-Top that-store-at John-only-Con what-Acc buy-Past-Q Bill-ni kii-ta (intentional) Bill-Dat ask-Past
 - Mary-wa [ano-mise-de JOHN-dake-wa nani-o kat-ta-ka] Mary-Top that-store-at John-only-Con what-Acc buy-Past-Q wakat-ta (extensional) find.out-Past
 'Mary found out as for only John what he bought at that

'Mary found out as for only John what he bought at that store.' Yurie Hara (JSPS) On Quantification over Question SuB 35/48

ntroduction Levels Wide-scope Non-boolean Japanese Int vs. Ext Summary Conclusion References

True Answers

- (20-b) Mary-wa [ano-mise-de JOHN-dake-wa nani-o kat-ta-ka] Mary-Top that-store-at John-only-Con what-Acc buy-Past-Q wakat-ta (extensional) find.out-Past 'Mary found out as for only John what he bought at that store.'
 - The TA operator shifts the question act into the set of propositions.
 - Therefore, the operation involved is simply a quantification over the set of propositions;
 - Hence, the negation introduced by *dake* can licitly operate over the set;
 - It yields the negative meaning 'it is not the case that as for other people, Mary found out what they bought.'

Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References
Summ	nary							

- I take Yoshimura's analysis that meaning of *dake* involves two commitments; affirmative and negative.
- The use of *dake-wa* indicates the exhaustification at a higher level than the proposition.
- Hence, when *dake-wa* is used in a matrix question, it attempts to exhaustify over question acts (i.e., negating alternative acts).
- This operation is not valid since negation cannot take scope over a question act.

Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References
Other	acts							

- (21) JOHN-dake-wa kita. John-only-Con came.
- (22) I make an assertion only about John with respect to the question 'Who came?' and I assert that John came.

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- When *dake* is absent, the implicature of *wa* can be overtly expressed or strengthened.
- (23) a. JOHN-wa kita. Mary-mo kita kamoshirenai. John-Con came. Mary-Add came might 'John came. Mary might have come, too.'
 - b. JOHN-wa kite, Mary-wa ko-nakat-ta. John-Con came. Mary-Con come-Neg-Past 'John came, and Mary didn't come.'

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Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	Reference	ces
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- When *dake* is present, the continuation is perceived as redundant.
- (24) a. #JOHN-dake-wa kita. Mary-mo kita kamoshirenai. John-dake-Con came. Mary-Add came might
 - b. #JOHN-dake-wa kite, Mary-wa ko-nakat-ta. John-dake-Con came. Mary-Con come-Neg-Past

Introduction	on Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References	
D .		1.4.							

Biscuit Conditional

- (25) If you're hungry, there's pizza in the fridge. [Siegel, To appear]
- (26) If you're hungry, there is a (relevant) assertion that there's pizza in the fridge. [Siegel, To appear]
- (27) a. If I have your attention now, (there's a relevant question:) what do you want for dinner?
 - b. Before you go, (there's a relevant command:) remember to call when you get there.
 - c. If you want to talk about weird co-workers, (there's a relevant exclamation:) what a pervert Len is! [Siegel, To appear]

Introduction Levels Wide-scope Non-boolean Japanese Int vs. Ext Summary Conclusion Refe	erences
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Potential Literal Acts

Potential Literal Acts [Siegel, To appear]

Abstract objects consisting only of propositional content and whatever illocutionary force potential can be read directly from their morphosyntactic form.

Not necessarily the actual illocutionary act that might be performed.

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Potential Literal A	cts		Something specia	ıl a

(28) Whenever you get hungry, there's pizza in the fridge. (Chris Potts p.c. to Siegel [To appear])

Potential Literal Acts At any time t at which you get hungry, there is/will be a (relevant) assertion that there's pizza in the fridge.

Speech Acts at any time t at which you get hungry (PERFORMED ASSERTION) there's pizza in the fridge

• The speaker certainly will not be performing the assertion at any time t at which the listener gets hungry.

ntroduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References
Some	thing	snaci	al about		tion a	ote		

On Quantification over Question

- Maybe, the question might be reduced to: why is a potential literal act of question available for assertions and commands, but not for question acts?
- assertions and commands: ambiguous between speech acts and potential literal acts
- questions: only speech acts
- (29) a. Whenever you get there, remember to call me.b.??Whenever I have your attention, what do you want for dinner?

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Introduction	Levels	Wide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	References

Concluding Remarks

- There seems to exist a strong parallel between
 - the availability of a pair-list reading in Wh-Q with a non-universal quantifier
 - the distribution of dake-wa in Wh-Q
- Matrix wh-Q
 - no pair-list reading
 - dake-wa is ungrammatical
- Embedded wh-Q
 - pair-list reading available only for extensional predicates
 - dake-wa is grammatical only with extensional predicates

ntroduction Levels Wide-scope Non-boolean Japanese Int vs. Ext Summary Conclusion References

Concluding Remarks

- The parallel suggests that there is a certain constraint with respect to quantification over question acts.
- Given Yoshimura's (2005) semantics of *dake* and the wide-scopeness of *wa*,
 Krifka's (2001) algebra of speech acts explains the distribution of *dake-wa* in wh-questions.
- But, unfortunately, there are apparent exceptions with other speech acts.
- Maybe, the question might be reduced to: why is a potential literal act of question available for assertions and commands, but not for question acts?

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oduction	Levels V	Vide-scope	Non-boolean	Japanese	Int vs. Ext	Summary	Conclusion	Refere	ences

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