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Introduction

What contrastive *wa* means

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## Focus particle stacking How a contrastive particle with ONLY and EVEN

David Y. Oshima davidyo@nagoya-u.jp

Nagoya University

WAFL11 University of York June, 2015

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This talk addresses: (i) what the contrastive particle *wa* means, and (ii) how it interacts with *dake* 'only' and *made* 'even' and.

(1) John-dake-wa kita.

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J.-only-wa come.Pst
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'John came (while all others did not come).'

(2) John-ni-made-wa katenakatta.

J.-Dat-even-*wa* win.Pot.Neg.Pst 'It is not the case that I could even win against John.' (Pot=potential)

## Aim

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# It is widely acknowledged that the Japanese particle *wa* has two distinct uses, which have been labeled as "thematic" (or "topic-marking") and "contrastive" (Kuno 1973; Teramura 1991; Heycock 2008, among others).

### (3) Thematic wa

- A: Smith-sensei-wa dare-ga mukae-ni iku-no? S.-wa who-Nom pick.up.Inf-Dat go.Prs-DP 'Who will go pick up Prof. Smith?'
- B: Smith-sensei-wa watashi-ga mukae-ni ikimasu. S.-wa I-Nom pick.up.Inf-Dat go.Prs 'As for Prof. Smith, I will go pick him up.' (DP = discourse particle)

## Background

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### (4) Contrastive wa

- A: Dare-ga kita-no? who-Nom come.Pst-DP 'Who came?'
- B: Suzuki-to Yamada-wa kimashita-ga, hoka-ni-wa S.-and Y.-wa come.Pst-but otherwise dare-mo kimasen deshita.
  anybody come.Neg Aux.Pst
  'Suzuki and Yamada came, but nobody other than them came.'

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## Background

Thematic *wa* marks an element within information-structural ground; contrastive *wa*, on the other hand, marks a (and typically, *the*) focus element.

 Consequently, most often disambiguation is possible based on tonal grounds (Kori 1997; Nakanishi 2001, 2008; Sugahara 2003; Tomioka 2009).



Fig. 1: The tripartite distinction of pragmatic functions (e.g., Lambrecht 1994, Vallduví & Engdahl 1996)

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## (5) (I will meet Prof. Brown at the airport myself.) As for [Prof. Smith] $_{\rm TOP}$ , [Ken] $_{\rm F}$ will go pick him up.

Background

focus: ken ground:  $\lambda y[\lambda w[pick.up(w, y, smith)]]$ topic: smith tail:  $\lambda x[\lambda y[\lambda w[pick.up(w, y, x)]]]$ 

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# Wa as a focus particle

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In many previous works (e.g., Numata 1986; Hara 2008; Oshima 2008), it has been claimed that contrastive *wa* has a meaning comparable to those of focus particles (FPs) such as additives (TOO), scalar additives (EVEN) and exclusives (ONLY).

(7) a. [John]<sub>F</sub>-mo gookaku-shita. J.-also pass.Pst

'John passed (the exam) too.'

- $\Rightarrow$  John is "like" some other person.
- b.  $[John]_{F}$ -wa gookaku-shita. J.-wa pass.Pst
  - 'John\_wa passed (the exam).'
  - $\Rightarrow$  John is "unlike" some other person.

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# The meaning of an additive focus particle

The interpretation of TOO(S) **Conventional Implicature**: There is a proposition p such that  $p \in ALT([S]^{f})$ ,  $p \not\approx [S]^{o}$ , and  $p \in CG$ . **Entailment**:  $[S]^{o}$ 

(9) a. 
$$\llbracket S \rrbracket^f = \langle G, F \rangle$$
  
b.  $\llbracket S \rrbracket^o = G(F)$ 

(10) a. 
$$[[John]_F$$
 is bright] $^f = \langle [bright], [j] \rangle$   
b.  $[[John]_F$  is bright] $^o = [bright]([j])$ 

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(11) Let [[α]]<sup>f</sup> be ⟨G, F⟩. Then: ALT([[α]]<sup>f</sup>) =<sub>def</sub>

(i) if F is an atomic referent, {G(F), G(F'), G(F"), ...} where F', F", ... are contextually prominent alternatives of F;
(ii) if F is a sum of referents a<sub>1</sub>⊕...⊕a<sub>n</sub>, {G(a<sub>1</sub>), ..., G(a<sub>n</sub>), G(a'), G(a"), ...} where a', a", ... are contextually prominent alternatives of a<sub>1</sub>, ... a<sub>n</sub>

(12) 
$$p \approx \langle \mathsf{G}, \mathsf{F} \rangle =_{def}$$
  

$$\begin{cases}
p = \mathsf{G}(\mathsf{F}) \text{ if } \mathsf{F} \text{ is an atomic referent} \\
\bigvee_{k=1}^{n} p = \mathsf{G}(a_k) \text{ if } \mathsf{F} \text{ is a sum of referents: } a_1 \oplus \ldots \oplus a_n
\end{cases}$$

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# The meaning of an additive focus particle

Context: John, Ken, Luke, and nobody else took the exam.

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- (13) a.  $[John]_F$  passed, too.
  - b. [John and Ken] $_{\rm F}$  passed, too.

(14) {'John passed', 'Ken passed', 'Luke passed'}

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A possible approximation (Noguchi & Harada 1996):

(15) The interpretation of WA(S): **CI**: There is a proposition p such that  $p \in ALT([S]^{f})$ ,  $p \approx [S]^{o}$ , and  $\neg p \in CG$ . **Entailment**:  $[S]^{o}$ 

(16) A: Who passed the exam?

B:  $[John]_F$ -wa gookaku-shita. ...

J.-wa pass.Pst

(i) ... But Ken and Luke failed.

(ii) ... But I don't know about Ken and Luke.

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Another posible approximation (Oshima 2008):

(17) The interpretation of WA(S): **CI**: There is a proposition p such that  $p \in ALT([S]^{f})$ ,  $p \not\approx [S]^{\circ}$ , and  $p \notin CG$ . **Entailment**:  $[S]^{\circ}$ 

(18) A: Who passed the exam?

B:  $[John]_{F}$ -wa gookaku-shita. . . .

J.-wa pass.Pst

(i) ... But Ken and Luke failed.

(ii) ... But I don't know about Ken and Luke.

(iii)... #And Ken and Luke passed too.

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# The meaning of a contrastive focus particle

Final version:

(19) The interpretation of WA(S):
CI: There is a proposition p such that p ∈ ALT([[S]]<sup>f</sup>), p ≈ [[S]]<sup>o</sup>, and p ∉ Bel(S) (in other words: ¬p is compatible with the speaker's current beliefs).
Entailment: [[S]]<sup>o</sup>

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# The meaning of a contrastive focus particle

Hara (2007): "[a sentence with contrastive *wa*] presupposes that there exists a stronger alternative to the asserted proposition [...] and conventionally implicates that the speaker considers the possibility that the stronger alternative is false"

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Hara's analysis fails to predict the contrast between (20a) and (20b).

(20) a. Ken-to Luke-ga fugookaku-datta-ndaroo? Jaa, K.-and L.-Nom failure-Cop.Pst-Aux.Presumptive then [John-{ga/wa} gookaku-shita] nante-koto-wa J.-Nom/wa pass.exam-Pst such-matter-wa

arienai-yo.

exist.Pot.Neg.Prs-DP

'Ken and Luke failed the exam, right? Then it is not possible [that  $\mathsf{John}_{(wa)}$  passed].'

 Ken-to Luke-ga gookaku-shita-no-wa tashika-da. Demo, K.-and L.-Nom pass.exam-Pst-Comp-wa certain-Cop.Pst but [John-{ga/#wa} gookaku-shita] nante-koto-wa J.-Nom/wa pass.exam-Pst such-matter-wa arienai-yo. exist.Pot.Neg.Prs-DP

'Ken and Luke indeed passed the exam. But it is not possible [that John passed].'

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## Wa and scope inversion

Under the adopted analysis, it is possible to provide a straightforward account of the "scope inversion" phenomenon illustrated below.

(21) a. [Zen'in-ga]<sub>F</sub> konakatta. everyone-Nom come.Neg.Pst 'All people are such that they did not come.' (∀>¬) ??'It is not the case that all people came.' (¬>∀)
b. [Zen'in]<sub>F</sub>-wa konakatta. everyone-wa come.Neg.Pst \*'All people are such that they did not come.' (∀>¬) 'It is not the case that all people came.' (¬>∀)

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## Wa and scope inversion

The "∀>¬" reading of "Zen'in-wa konakatta" **Entailment**: All people are such that they did not come. **CI**: The speaker considers that at least one member of the following set is possibly false: {'Most people are such that they did not come', ..., 'Two people are such that they did not come', 'Some person is such that (s)he did not come'}

(23) The "¬>∀" reading of "Zen'in-wa konakatta"
Entailment: It is not the case that all people came.
CI: The speaker considers that at least one member of the following set is possibly false: {'It is not the case that most people came', ..., 'It is not the case that two people came', 'It is not the case that some person came'}

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## Focus particle clustering

## Some combinations of FPs allow clustering/stacking.

- (24) a. Pan-dake-wa tabeta. bread-only-*wa* eat.Pst
  - 'I ate bread, although I did not eat any other thing.' (ONLY-*wa*)

### b. Kuruma-made-wa kawanakatta. car-even-*wa* buy.Neg.Pst

car-even-*wa* buy.Neg.Pst 'I did not go as far as buying a car.' (EVEN-*wa*)

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## Focus particle clustering

- c. Konbini-dake-demo aite-ireba, convenience.store-only-even open.Ger-Ipfv.Prov hirugohan-ga taberareru. lunch-Nom eat.Pot.Prs
   'We will be able to have lunch if (unlike other stores) the convenience store is open.' (ONLY-EVEN)
- d. Sono kaigoo-ni-wa chiji-{sae/sura/made}-mo that assembly-Dat-*wa* governor-even-*mo* shusseki-shita. attend.Pst

'Even the governor attended that assembly.' (EVEN-ALSO)

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e. Pan-dake-shika tabenakatta. bread-only-shika eat.Neg.Pst
'I only ate bread.' (ONLY-shika)

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## Focus particle nesting

FP clustering should be distinguished from "FP nesting" (Krifka 1991).

- (25) a.  $Only_1$  [John]<sub>F1</sub> ordered [a dessert]<sub>F2</sub> too<sub>2</sub>.
  - b. The alternative propositions relevant for only: {Ken ordered a dessert too, Luke ordered a dessert too, ...}

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## Focus particle nesting

(All the students here happen to play exactly one musical instrument. Most play the piano and nothing else. Some only play the violin.)

a. Some students even only play [the clarinet] $_{\rm F}$ .

b. The alternative propositions relevant for *even*:
 {Some students only play the piano, Some students only play the violin, ...}

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# The meaning of an exclusive particle

The prejacent-presupposition analysis of ONLY (Horn 1969):

(27) The interpretation of ONLY(S): **CI**:  $[S]^{o} \in CG$ **Entailment**: For all propositions p such that  $p \in ALT([S]^{f})$  and  $p \not\approx [S]^{o}, \neg p$ .

Whereas "Paul speaks  $[{\sf French}]_{\rm F}$  too" asserts that Paul speaks  ${\sf French}$ , "Paul only speaks  $[{\sf French}]_{\rm F}$ " presupposes that Paul speaks French.

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# The meaning of an exclusive particle

- (28) Embedding under negation {Not/it is not case that} only John danced.
  ⇒ John danced
  - $\Rightarrow$  Nobody other than John danced.

## (29) Order asymmetry

- a. John danced, and (indeed) only John danced.
- b. ??Nobody other than John danced, {but/and (indeed)} only John danced.

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# The meaning of an exclusive particle

### (30) Reason clause

(Pill A is a hypnotic and Pill B is a digestive.) John fell asleep because he (also/#only) took Pill A.

### (31) Emotive factive clause

I regret that I only ordered a hamburger.

 $\Rightarrow$  I regret that I did not order things other than a hamburger.

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 $\Rightarrow$  I regret that I ordered a hamburger.

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Under the prejacent-presupposition analysis, B's utterance below is understood to involve accommodation.

(32) A: I have no idea who came. Can you tell me?B: Only Mary did.

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## X-dake-Ø vs. X-dake-wa

Japanese *dake* is amenable to the prejacent-presupposition analysis.

- But when *dake* is followed by *wa*, the assertion and the presupposition (of *dake*) are switched.
- (33) a. [Nomimono-dake mochikomeru] beverage-only bring.in.Pot.Prs toiu-wake-de-wa nai. such-Comp-Cop.Inf-wa Neg.Prs 'It is not the case that one can bring in drinks only.'
  ⇒ It is okay to bring in drinks.
  ⇒ It is not okay to bring in food, etc.
  b. [Nomimono-dake-wa mochikomeru] toiu-wake-de-wa
  - nai. ⇒ It is okay to bring in drinks.
    - $\Rightarrow$  It is not okay to bring in food, etc.

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X-dake-Ø vs. X-dake-wa

("Nobody other than John came. But ...") John-dake{??Ø/-wa} kita. J.-only-Ø/wa come.Pst 'But only??(-wa) John came.'

(35) ("I was adrift on a lifeboat for seven days, without any food. But ...")

Mizu-dake{ $\#\emptyset$ /-wa} atta-node, ikinobiru water-only- $\emptyset$ /wa exist.Pst-because survive.Prs koto-ga dekita. matter-Nom do.Pot.Pst 'I was able to survive because there was water only#(-wa).'

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## X-dake-Ø vs. X-dake-wa

(36) (Husband and wife are talking about their childern John and Mary.)

- H: Toosan-to kaasan-ga John-dake{-o/#-wa} kawaigaru father-and mother-Nom J.-only-Acc/wa love.Prs no-ni-wa, komaru-na. Mary-ga kawaisoo-da. Comp-Dat-wa be.troubled-DP M.-Nom pitiful.Prs
  'It is unfortunate that my dad and mom only(#-wa) care about John. I feel sorry for Mary.'
- W: John-dake{#-o/-wa} kawaigatte-kureru koto-ni J.-only-Acc/wa love.Ger-Ben.Prs matter-Dat kansha-shinakucha. Watashi-no ryooshin-nante, thank.ought I-Gen parents-speaking.of mago-tachi-ni mattaku kyoomi-ga nai-nda-kara! grandchild-Pl-Dat at.all interest-Nom not.exist-DAux-DP
  'We should be grateful that they only#(-wa) care about John. Think about my parents, they have no interest at all in their grandchildren!'

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## X-dake-Ø vs. X-dake-wa

(37) Some students even only play [the clarinet] $_{\rm F}$ , ...

- a. so that they cannot participate in a string quartet or piano quintet.
- b. #so that they can participate in Mozart's Clarinet Quintet in A major.
- (38) Some students even play [the clarinet]<sub>F</sub>, ...
  - a. (?)so that they cannot participate in a string quartet or piano quintet.

b. so that they can participate in Mozart's Clarinet Quintet in A major.

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## Parallel Interpretation Rule

Suppose (i) sentence:  $[\alpha X_F FP_1 \beta]$  entails  $E_1$  and conventionally implicates  $C_1$ , and (ii) sentence:  $[\alpha X_F FP_2 \beta]$  entails  $E_2$  and conventionally implicates  $C_2$ . Then,  $[\alpha [X_F FP_1] FP_2 \beta]$  entails  $E_3$  and conventionally implicates  $C_3$ , where:

$$\begin{array}{ll} (i) & E_3 = E_2 \\ (ii) & C_3 \Leftrightarrow C_2 \land [\neg [C_1 \Leftrightarrow [E_2 \in CG]] \rightarrow C_1] \land [\neg [E_1 = \\ & E_2] \rightarrow [E_1 \in CG]] \end{array}$$

 $\begin{array}{ll} \mbox{(40)} & \mbox{``[John]}_F\mbox{-}dake kita'' \mbox{ entails } E_1 \mbox{ & implicates } C_1. \\ & \mbox{``[John]}_F\mbox{-}wa \mbox{ kita'' entails } E_2 \mbox{ & implicates } C_2. \\ & \mbox{``[[John]}_F\mbox{-}dake]\mbox{-}wa \mbox{ kita'' entails } E_3 \mbox{ & implicates } C_3. \end{array}$ 

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# Parallel Interpretation Rule

(41) "[John]<sub>F</sub>-dake-wa kita"

<b>E</b> <sub>1</sub> :	$\lambda w [\forall p [p \in ALT(\langle \lambda x [\lambda w' [came(w', x)]], john \rangle) \land [p \neq $
	$\lambda w''$ [came(w'', john)]] $ ightarrow \neg p(w)$ ]]
	(in prose: 'Nobody other than John came')

- C<sub>1</sub>:  $\lambda w[came(w, john)] \in CG$ (in prose: 'John came' is presupposed)
- **E**<sub>2</sub>:  $\lambda w$ [**came**(*w*, **john**)] (in prose: 'John came')
- $\begin{array}{ll} \mathbf{C}_{2} \colon & \exists p[p \in \mathsf{ALT}(\langle \lambda x[\lambda w[\mathsf{came}(w, \, x)]], \, \mathsf{john} \rangle) \land [p \neq \\ & \lambda w'[\mathsf{came}(w', \, \mathsf{john})] \land [p \notin \mathsf{Bel}(\mathsf{S})]] \\ & (\text{in prose: Somebody other than John is } x \text{ such that the speaker finds '} x \text{ came' possibly false}) \end{array}$

 $\begin{array}{l} \mathsf{E}_3 = \mathsf{E}_2 \\ \mathsf{C}_3 \Leftrightarrow \mathsf{C}_2 \land [\neg[\mathsf{C}_1 \Leftrightarrow [\mathsf{E}_2 \in \mathsf{CG}]] \to \mathsf{C}_1] \land [\neg[\mathsf{E}_1 = \mathsf{E}_2] \to [\mathsf{E}_1 \in \mathsf{CG}]] \\ \Leftrightarrow \mathsf{C}_2 \land [\mathsf{E}_1 \in \mathsf{CG}] \Leftrightarrow [\mathsf{E}_1 \in \mathsf{CG}] \end{array}$
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# The meaning of a scalar additive

Since Karttunen and Peters (1979), it is widely considered that the semantic contribution of EVEN has two parts, which might be called the "existential" and "scalar" components.

(42) Conventional implicature of EVEN(S) (analysis in line with K&P 1979):

> (i) There is some p such that  $p \in ALT(\llbracket S \rrbracket^{f}), p \not\approx \llbracket S \rrbracket^{f}$ , and  $p \in CG$ , and (ii) for all q such that  $q \in ALT(\llbracket S \rrbracket^{f})$ and  $q \not\approx \llbracket S \rrbracket^{o}, q$  is less noteworthy than any r such that  $r \approx \llbracket S \rrbracket^{o}$ .

Under this anlysis, "Even  $[{\sf John}]_F$  came" presupposes that somebody other than John came and conventionally implicates that 'John came' is the most noteworthy among the alternative propositions.

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# The meaning of a scalar additive

Zeus is an exceptionally smart Chimpanzee trained to play chess. Ann, Bob, Carol, Dan, and Ed are human chess players with the ascending order of strength.

- (43) (In reply to: "Who, among the five opponents, did Zeus beat on yesterday's test?")
  - a. He beat Ann, Bob, Carol, and even Dan. But he lost to Ed.
  - b. He only beat Dan. #And he beat {Carol/Ed} (too).

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### The meaning of a scalar additive

Krifka (1991) adopts the following analysis where the scalar component is weakened (and is conflated with the existential component).

 (44) Conventional implicature of EVEN(S) (analysis in line with Krifka 1991): There is some p such that p ∈ ALT([[S]]<sup>f</sup>), p ≈ [[S]]<sup>o</sup>, p ∈ CG, and p is less noteworthy than any r such that r ≈ [[S]]<sup>o</sup>.

Under this anlysis, "Even  $[John]_F$  came" presupposes that some person x is (i) such that x came and (ii) such that 'x came' is less noteworthy than 'John came'.

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# The meaning of a scalar additive

(45) (In reply to: "Who did Zeus beat?")

1: Let me see ... He beat Bob.

- 2a: And he beat Carol, too. And he beat Dan, too.
- 2b: And he beat Carol, too. And he even beat Dan.
- 2c: And he even beat Carol. ??And he even beat Dan.
- 2d: And he even beat Dan. #And he even beat Carol.

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# The meaning of a scalar additive

The interpretation of EVEN(S) **CI**: There is a subset Q of ALT( $[S]^{f}$ ) such that (i) Q contains all p's such that  $p \approx [S]^{o}$  and at least one other member, and (ii) for any q such that  $q \in Q$  and q  $\not\approx [S]^{o}$ ,  $q \in CG$  and q is less noteworthy than any r such that  $r \approx [S]^{o}$ . **Entailment**:  $[S]^{o}$ 

The subset relevant for "Zeus **even** beat  $[Dan]_F$ " is the union of: (i) {'Zeus beat Dan'} and (ii) some non-empty subset of {'Zeus beat Ann', 'Zeus beat Bob', 'Zeus beat Carol'}

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# The meaning of a scalar additive

**Subset constancy requirement**: Once an interlocutor picks a subset Q, that Q must remain, in the same stretch of discourse, the set relevant for any sentence that contains EVEN and shares the same focus alternative set.

- (47) 1. Zeus even beat [Dan]<sub>F</sub>, and ...
   (Q must contain 'Zeus beat Dan' as its most noteworthy member.)
  - 2. #he even beat [Carol]<sub>F</sub>.

Note that (47-1) and (47-2) share the same focus value.

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# X-made-∅ vs. X-made-wa

- The sequence of *made* 'even' and *wa* is possible only when *made-wa* co-occurs with a DE operator.
- The addition of *wa* has the effect of reversing the scope relation between *made* and the DE operator.
  - a. Zeus-wa Carol-ni-made katenakatta.
    Z.-wa C.-Dat-even win.Pot.Neg.Pst
    'Zeus could not even beat Carol.' (EVEN>¬)
    - b. Zeus-wa Carol-ni-made-wa katenakatta.
      Z.-wa C.-Dat-even-wa win.Pot.Neg.Pst
      'It is not the case that Zeus could even beat Carol.' (¬>EVEN)
- (cf.) Zeus-wa Carol-ni-made-wa kateta.
   Z.-wa C.-Dat-made-wa win.Pot.Pst
   'Zeus could beat all the opponents up to Carol.'

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# X-made-∅ vs. X-made-wa

The parallel interpretation rule (or the nesting schema) alone does not account for the observed scope inversion phonemenon.

#Zeus-wa Ann-ni-made-wa katenakatta.
 Z.-wa A.-Dat-even-Ø/wa win.Pot.Neg.Pst

(50) (assuming that EVEN>¬)
Entailment: 'Zeus could not beat Ann'
CI: At least one of (51a)–(51d) is in the CG & at least of one of (51a)–(51d) is such that the speaker finds it possibly false.

- (51) a. 'Zeus could not beat Bob'
  - b. 'Zeus could not beat Carol'
  - c. 'Zeus could not beat Dan'
  - d. 'Zeus could not beat Ed'

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# X-made-Ø vs. X-made-wa

Zeus-wa igai-ni-mo Dan-ni katta. Shikashi. Z - waunexpectedly D.-Dat win.Pst but zentai-no kekka-wa imaichi-datta. Ed, Carol, total result-*wa* unsatisfactory-Pst E. C. Bob-ni-wa maketa-shi, Ann-ni-made B.-Dat-wa lose.Pst-and A.-Dat-even katenakatta. win.Pot.Neg.Pst 'Unexpectedly, Zeus beat Dan. But his total results were unsatisfactory. He lost to Ed, Carol, and Bob, and he couldn't even beat Ann.'

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# A repair-based analysis

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I suggest that the "set shrinking" caused by a scalar additive affects not only the interpretation of another scalar additive occurring in the sequel of the same discourse stretch, but also that of any FP that is "stacked" on it.

Zeus-wa Carol-ni-made-wa katenakatta. Z.-*wa* C.-Dat-even-Ø/*wa* win.Pot.Neg.Pst 'It is not the case that Zeus could even beat Carol.' (¬>EVEN)

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# A repair-based analysis

- a.  $\exists Q[Q \subseteq ALT('Z \text{ could not beat } [C]_{F}') \land \forall p[p \approx 'Z \text{ could not beat } [C]_{F}' \rightarrow p \in Q] \land \exists q[q \not\approx 'Z \text{ could not beat } [C]_{F}' \land q \in Q] \land \forall r[r \not\approx 'Z \text{ could not beat } [C]_{F}' \land r \in Q] \rightarrow [r \in CG \land \forall s[s \approx 'Z \text{ could not beat beat } [C]_{F}' \rightarrow r <_{n} s]]]]$ 
  - b.  $\exists q [q \in ALT('Z \text{ could not beat } [C]_{F}') \land q \not\approx 'Z \text{ could not beat } [C]_{F}' \land q \notin Bel(S)]$
- (55)  $\exists Q[Q \subseteq ALT('Z \text{ could not beat } [C]_{F}') \land \forall p[p \approx 'Z \text{ could not beat } [C]_{F}' \rightarrow p \in Q] \land \exists q[q \not\approx 'Z \text{ could not beat } [C]_{F}' \land q \in Q] \land \forall r[r \not\approx 'Z \text{ could not beat } [C]_{F}' \land r \in Q] \rightarrow [r \in CG \land \forall s[s \approx 'Z \text{ could not beat } [C]_{F}' \rightarrow r <_{n} s]]] \land \exists t[t \in Q \land t \not\approx 'Z \text{ could not beat } [C]_{F}' \land t \notin Bel(S)]]$

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# A repair-based analysis

The resulting semantic conflict triggers a repair process, which specifically is the manipulation of the scopal relation between *m*ade and the negation.

(56) Zeus-wa Carol-ni-made-wa katenakatta.
 Z.-wa C.-Dat-even-Ø/wa win.Pot.Neg.Pst
 'It is not the case that Zeus could even beat Carol.'

- (57) a.  $\exists Q[Q \subseteq ALT('Z \text{ could beat } [C]_{F}') \land \forall p[p \approx 'Z \text{ could beat } [C]_{F}' \rightarrow p \in Q] \land \exists q[q \not\approx 'Z \text{ could beat } [C]_{F}' \land q \in Q] \land \forall r[r \not\approx 'Z \text{ could beat } [C]_{F}' \land r \in Q] \rightarrow [r \in CG \land \forall s[s \approx 'Z \text{ could beat } [C]_{F}' \rightarrow r <_{n} s]]]]$ 
  - b.  $\exists p [p \in ALT('Z \text{ could not beat } [C]_{F}') \land p \not\approx 'Z \text{ could not beat } [C]_{F}' \land p \notin Bel(S)]$

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# A repair-based analysis

If one starts out with the nesting schema, it will be harder to account for the empirical observations made above.

(58) ("Speaking of the new cosmetic products, Product A sells well not only to women, but also to men. On the other hand, ...")
Seihin B-wa, josei-ni-wa ureru-ga, product B-wa female-Dat-wa sell(Intr.).Prs-but dansei-ni-made-wa urenai. male-Dat-even-wa sell(Intr.).Neg.Prs
'Product B sells well to women, but it is not the case that it even sells well to men.'

(59) Entailment: 'It is not the case that [Product B sells well to men].'
CI: 'Product B sells well to women' is in the CG & the speaker finds 'Product B even sells well to women' possibly false.

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# Ordinal made

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A sentence like the following appears to be a counterexample to the generalization that the sequence of made + wa is possible only in a DE context.

(60) Zeus-wa Carol-ni-made-wa kateta.Z.-wa C.-Dat-made-wa win.Pot.Pst

*Made* occurring in a UE context and followed by *wa* can be shown not to be a scalar additive FP.

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### The form *made* has several senses:

### (61) scalar additive use

Ed-ni-made katta-no-wa odoroita. E.-Dat-made win.Pst-Pro-wa get.surprised.Pst

### (62) endpoint-marking use

- a. Gakkoo-made aruita.
   school-made walk.Pst
   'I walked to the school.'
- b. Tokyo-made itta.
   T.-made go.Pst
   'I went to Tokyo.'
- c. Gogo ni-ji-made benkyoo-shita. afternoon 2-o'clock-made study.Pst 'I studied until 2 p.m.'
- d. Ashita-made kakaru-daroo. tomorrow-*made* take.Prs-MAux 'It will take until tomorrow.'

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# Ordinal made

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### (63) temporal ordinal use

("I made a plan to do the assignments in the order of math, science, history, and English. ...)

Rika-made yatta tokoro-de kyuukei-shita. science-*made* do.Pst place-Loc rest.Pst 'l took a break when l finished the science.'

The interpretation of ordinal *made* involves a scale based on temporal order, rather than a scale based on noteworthiness.

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# Is ordinal *made* a (scalar or non-scalar) additive FP? It appears not.

Ordinal *made* 

Moshi sengetsu The Prisoner of Azkaban-made if last.month P.A.-made yonde-okeba, kongetsu-chuu-ni zenkan read-do.beforehand.Prov this.month-in-Dat all.volumes yomioeru koto-ga dekita-daroo-ni. finish.reading.Prs matter-Nom do.Pot.Pst-MAux-DP 'If I had read all the Harry Potter novels up to The Prisoner of Azkaban last month, I would be able to finish all the Harry Potter novels this month.'

 $\Rightarrow$  The speaker has read some Harry Potter novel other than "The Prisoner of Azkaban".

# Ordinal made

#### Focus particle clusters

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### (65) (The interlocutors are talking about a movie trilogy.)

- A: "Episode 3"-wa hyooban-ga warui-mitaida-ne. E.-*wa* reputation-Nom bad-Evid.Prs-DP Wan-to tsuu-wa doo-datta-no?
  - 1-and 2-wa how-Cop.Pst-DP
  - 'I hear that "Episode 3" is unpopular. How were the first and second ones?'

I suggest that "X-made $_{\rm ordinal}$ " is roughly equivalent to "the N's up to X" or "all N's up to X", where N denotes a set of entities that form an ordinal scale and contains the referent of X (e.g., "All Harry Potter novels up to *The Order of the Phoenix*").

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### Ordinal *made*

A sentence like (66) is ambiguous between the scalar additive and ordinal uses.

- On the scalar additive reading, it presupposes that Zeus could beat an opponent weaker than Carol. (It is possible for Carol to be Zeus' first opponent.)
- On the ordinal reading, it entails that there was another opponent x such that (i) Zeus could *not* beat x and (ii) x is outranked by Carol on the relevant temporal ordinal scale. (Carol cannot be Zeus' first opponent.)
- (66) Zeus-wa Carol-ni-made-wa katenakatta.Z.-wa C.-Dat-made-wa win.Pot.Neg.Pst

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# Other types of of FP clusters

Guerzoni's (2003) discussion of some FP clusters in European languages, and Nakanishi's (2006) discussion of *dake-demo* 'only-even', are highly resonant with my analysis of *dake-wa* and *made-wa*.

(67) Niemand heeft {ook/zelfs} maar [Maria]<sub>F</sub> begroeten.
 no.one has also/even only M. greeted
 'Nobody even greeted Maria.' (Dutch)

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# (68) [Ichiban kantan-na mondai]<sub>F</sub>-dake-demo toketara, most easy.Attr question-only-even solve.Pot.Cond A-o moraeru. A-Acc receive.Pot.Prs

'If you can solve even the easiest problem, you can get an A.'

(cf.) [Ichiban {muzukashii/#kantan-na} mondai]<sub>F</sub>-demo most difficult.Prs/easy.Attr question-only-even toketara, A-o moraeru. solve.Pot.Cond A-Acc receive.Pot.Prs 'If you can solve even the most difficult problem, you can get an A.'

Guerzoni and Nakanishi argue (i) that the ONLY-item participating in FP clusters entails the prejacent-proposition and presupposes the exclusive meaning, and (ii) the semantic conflict between clustered FPs triggers a repair by means of scope manipulation.

Dake-demo

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# "Ambiguity" of ONLY

Guerzoni and Nakanishi take the view that some ONLY-items (Dutch *maar*, Japanese *dake*) are underspecified between the prejacent-presupposition meaning and the prejacent-entailment meaning (cf. my Parallel Interpretation Rule).

(69) a. Hold on  $\{just/\#only\}$  a minute!

- b. Please, take {just/only} one of my books. (I need the others.)
- (70) a. If Bill smokes {just/#only} three cigarettes, his mother gets upset.
  - If John passes {just/only} one class, his mother gets upset.

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# "Ambiguity" of ONLY

English *just* and Japanese  $dake(-\emptyset)$  do allow the prejacent-entailment interpretation, but only in limited contexts such as in a request and in the antecedent of a conditional.

- a. [Gofun]<sub>F</sub>-dake matte-kure.
   five.minute-dake wait.Ger-Ben.Imp
   'Wait for just five minutes.' (prej-ent)
  - b. [Miruku]<sub>F</sub>-dake irete-kure. milk-dake put.Ger-Ben.Imp
     'Put only milk in it.' (prej-ps)
- a. [Mizu]<sub>F</sub>-dake areba, ikinobirareru-daroo. water-dake exist.Prov survive.Pot.Prs-MAux
   'If we just have water, we will be able to survive.' (prej-ent)
  - b. [John]<sub>F</sub>-dake-o yobeba, Ken-wa okoru-daroo.
     J.-dake-Acc invite.Prov Ken-wa get.angry.Prs-MAux 'If we only invite John, Ken will be angry.' (prej-ps)

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# "Ambiguity" of ONLY

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(73) (There was no food on the lifeboat. But ...) Mizu-dake atta-node, ikinobiru water-dake exist.Pst-because survive.Prs koto-ga dekita. matter-Nom do.Pot.Pst (prej-ps reading only)

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# "Ambiguity" of ONLY

 $Dake(-\emptyset)$  on the prejacent-entailment interpretation does not merely presuppose the exclusive meaning, but futher conveys that the entailed proposition is something that leads to a desirable consequence.

a. ("It is unfortunate that John and Ken cannot come ...")
 Demo, Luke-{ga/dake} kureba, nantoka
 but L.-Nom/dake come.Prov somehow
 naru-daroo.

become.Prs-MAux

'But if Luke comes, then things will be okay.'

 b. ("I managed to convince John and Ken not to come to the party ...")

Demo, Luke- $\{ga/\#dake\}$  kureba, (kekkyoku) but L.-Nom/*dake* come.Prov after.all toraburu-ga okoru-daroo.

trouble-Nom occur.Prs-MAux

'But if Luke comes, we will be in trouble (anyway).'

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# "Ambiguity" of ONLY

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("I managed to convince John and Ken not to come to the party . . . ")

Demo, Luke-{ga/dake-wa} kuru. Dakara, but L.-Nom/*dake-wa* come.Prs so (kekkyoku) paatii-wa mechakucha-ni after.all party-*wa* messy-Adv

naru-daroo.

become.Prs-MAux 'But Luke will come. So, the party will be ruined (anyway).'

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# "Ambiguity" of ONLY

### In sum:

- It is probably necessary to acknowlege the ambiguity of *dake*, to deal with cases like "5-fun-dake matte kudasai".
- Dake<sub>2</sub> (the prej-ent version), however, (i) is allowed only in some non-root environments, and (ii) conveys a CI concerning the desirability of the prejacent-proposition.
- The ambiguity theory thus cannot account for the entailment/presupposition swapping observed with *dake-wa*, where *dake* conforms to neither of the two conditions.

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The Parallel Interpretation Rule provides the straightforward account of some types of FP clusters:

(75) Suppose (i) sentence:  $[\alpha X_F FP_1 \beta]$  entails  $E_1$  and conventionally implicates  $C_1$ , and (ii) sentence:  $[\alpha X_F FP_2 \beta]$  entails  $E_2$  and conventionally implicates  $C_2$ . Then,  $[\alpha [X_F FP_1] FP_2 \beta]$  entails  $E_3$  and conventionally implicates  $C_3$ , where:

 $\begin{array}{ll} (i) & E_3 = E_2 \\ (ii) & C_3 \Leftrightarrow C_2 \land [\neg [C_1 \Leftrightarrow [E_1 \in CG]] \rightarrow C_1] \land [\neg [E_1 = \\ & E_2] \rightarrow [E_1 \in CG]] \end{array}$ 

(76) a. Pan-dake-wa tabeta. (ONLY-WA)

 b. Sono kaigoo-ni-wa chiji-{sae/sura/made}-mo shusseki-shita. (EVEN-ALSO)

# Conclusion

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# Some other types of FP clusters involve additional complications, but the Parallel Interpretation Rule makes it easier to deal with them than the nesting schema.

- a. Kuruma-<mark>made-wa</mark> kawanakatta. (EVEN-WA)
  - b. Konbini-dake-demo aite-ireba, hirugohan-ga taberareru. (ONLY-EVEN)
  - c. Pan-dake-shika tabenakatta. (ONLY-SHIKA)

# Conclusion

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### This handout with the bibliography is uploaded on:

 http://www.gsid.nagoya-u.ac.jp/ oshima/docs/wafl11ho.pdf

Thanks!

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