Past-as-Past in Japanese Counterfactuals

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Outline

Introduction

- Introduction
 - English: basic observations
 - Japanese: some examples
- Fake Past
- Time and modality in Japanese conditionals

Introduction English: basic observations

Introduction

conditionals about the future

(1) If Mary comes tomorrow, she will join the meeting. **WOII-PRESENT** come-present

(2)If Mary came tomorrow, she would join the meeting. WOLL-PAST come-past

(3)If Mary had come tomorrow, she would have joined. woll-past+perfect come-past+perfect

Introduction English: basic observations

conditionals about the future

(1)If Mary comes tomorrow, she will join the meeting.

>> predictive indicative

WOII-PRESENT come-present

(2)If Mary came tomorrow, she would join the meeting. WOLL-PAST come-PAST

⇒ simple past subjunctive (SP)

(3)If Mary had come tomorrow, she would have joined.

come-past+perfect WOII-PAST+PERFECT

>> past perfect subjunctive (PP)

▶ Past / Past Perfect in (2-3) despite future reference

conditionals about the past

(4) If Mary came yesterday, she joined the meeting.

- (5) #If M came yesterday, she would join the meeting.
- (6) If M had come yesterday, she would have joined.

conditionals about the past

- (4) If Mary came yesterday, she joined the meeting. come-past join-PAST > non-predictive indicative
- (6) If M had come yesterday, she would have joined. WOII-PAST+PERF come-past+perf > past perfect subjunctive (PP)

- > (4): Past only in indicatives
 - (6): subjunctives only with Past Perfect

Introduction Fake Past Time and modality Conclusions References

Introduction English: basic observations

indicative

- (7) a. If Mary comes tomorrow, she will join.
 - b. If Mary came yesterday, she joined / will have joined.

Simple Past subjunctive (SP)

(8) If Mary came tomorrow, she would join.

Past Perfect subjunctive (PP)

- (9) a. If Mary had come tomorrow, she would have joined.
 - b. If Mary had come yesterday, she would have joined.

- Fake Past / Fake Perfect (latridou, 2000) common across languages for counterfactuals or irrealis
- SP vs. PP (Ippolito, 2003, 2013) related to the status of the antecedent or its presuppositions
- ➤ How is "fake" Past / Perfect morphology interpreted?

conditionals about the future

- (10) Mary-ga asita ku-reba, kaigi-ni de-ru darō.

 Mary-NOM tomorrow come-COND meeting-LOC join-nonpast MODAL
 - a. 'If Mary comes tomorrow, she will join the meeting.'
 - b. 'If Mary came tomorrow, she would join.'
- (11) Mary-ga asita ku-reba, kaigi-ni de-ta darō.

 Mary-NOM tomorrow come-cond meeting-Loc join-past MODAL

 'If Mary had came tomorrow, she would have joined.'

Introduction Japanese: some examples

conditionals about the future

- (10)Mary-ga asita ku-reba, kaigi-ni de-ru darō. Mary-NOM tomorrow come-COND meeting-LOC join-nonpast MODAL
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- (11)Mary-ga asita ku-reba, kaigi-ni de-ta darō. Mary-NOM tomorrow come-cond meeting-Loc join-past MODAL 'If Mary had came tomorrow, she would have joined.'
 - >> tense in consequent: {indic, SP subj} vs. PP subj

Japanese	English
NONPAST	indicative SP subjunctive
PAST	PP subjunctive

Introduction Japanese: some examples

conditionals about the past

- (12) M-ga kinō ki-tei-reba, kaigi-ni de-ta darō.

 M-NOM yesterday come-TEI-COND meeting-LOC join-PAST MODAL
 - a. 'If Mary came yesterday, she joined the meeting.'
 - b. 'If Mary had come yesterday, she would have joined.'
- (13) M-ga kinō ku-reba, kaigi-ni de-ta darō.

 M-NOM yesterday come-cond meeting-Loc join-PAST MODAL.

 'If Mary had come yesterday, she would have joined.'

Introduction Japanese: some examples

conditionals about the past

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 'If Mary had come yesterday, she would have joined.'

• "Real Past" in (12)

⇒ indicative or SP subjunctive

• "Fake Past" in (13)

▶ PP subjunctive

Outline

Introduction

- Fake Past
 - Distinctions
 - Approaches

difference between SP and PP

- [Mary is not likely to come to the office tomorrow.] (14)
 - If M came tomorrow, she would join the meeting.
 - b. #If M had come, she would have joined the mtg.
- (15)[Mary is dead.]
 - a. #If M came tomorrow, she would join the meeting.
 - If M had come, she would have joined the mtg.

difference between SP and PP

- (14)[Mary is not likely to come to the office tomorrow.]
 - If M came tomorrow, she would join the meeting.
 - b. #If M had come, she would have joined the mtg.
- (15) [Mary is dead.]
 - a. #If M came tomorrow, she would join the meeting.
 - If M had come, she would have joined the mtg.
 - presuppositions of the antecedent (Ippolito, 2006, 2013) satisfied in (14): violated in (15)
 - epistemic status of antecedent worlds (Schulz, 2014) possible (though unlikely) in (14); impossible in (15)

Fake Past Distinctions

difference between SP and PP

- (14) [Mary is not likely to come to the office tomorrow.]
 - a. If M came tomorrow, she would join the meeting.
 - b. #If M had come, she would have joined the mtg.
- (15) [Mary is dead.]
 - a. #If M came tomorrow, she would join the meeting.
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 - presuppositions of the antecedent (Ippolito, 2006, 2013) satisfied in (14); violated in (15)
 - epistemic status of antecedent worlds (Schulz, 2014) possible (though unlikely) in (14); impossible in (15)
 - > either way, antecedent-worlds must be made accessible

Past-as-Modal approach

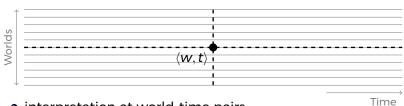
- non-temporal interpretation of Past
- abstract notion of remoteness transferred from the temporal domain to the domain of possible worlds

Palmer (1986); Fleischman (1989); latridou (2000); Schulz (2014); a.o.

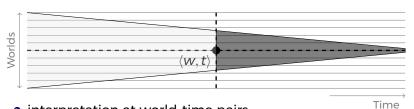
Past-as-Past approach

- temporal interpretation of Past
- non-actual states of affairs made accessible via backshift in a branching time model.

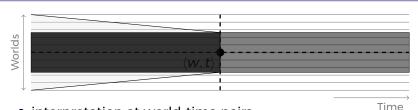
Dudman (1983, 1984); Condoravdi (2002); Ippolito (2006, 2013); Kaufmann (2005): Romero (2014): a.o.



• interpretation at world-time pairs

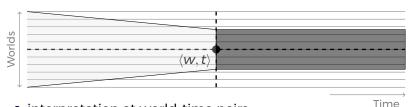


- interpretation at world-time pairs
- history of w proceeds by shedding alternatives



- interpretation at world-time pairs
- history of w proceeds by shedding alternatives
- alternatives at $\langle w, t \rangle$:
 - same up to t
 - diverse after t

- one possible past
- many possible futures

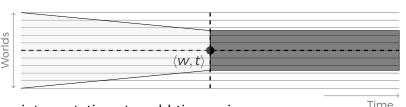


- interpretation at world-time pairs
- history of w proceeds by shedding alternatives
- alternatives at $\langle w, t \rangle$:
 - same up to t
 - diverse after t

- ⇒ one possible past
- → many possible futures
- 'if A, WOLL C' is true at $\langle w, t \rangle$ iff at all relevant* $\langle w', t' \rangle$ in the dark rectangle** at which A is true, C is true.

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Fake Past Approaches

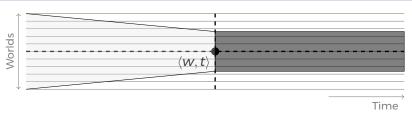


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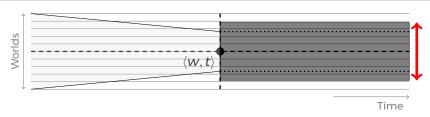
- → one possible past
- many possible futures
- 'if A, WOLL C' is true at $\langle w, t \rangle$ iff at all relevant* $\langle w', t' \rangle$ in the dark rectangle** at which A is true, C is true.

challenges:

- ensuring that A-worlds are reachable
- getting the temporal reference right



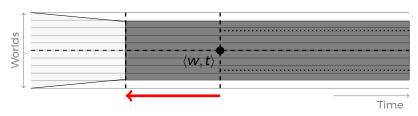
ways to include A-worlds



ways to include A-worlds

• expand accessible worlds

[Past-as-Modal]



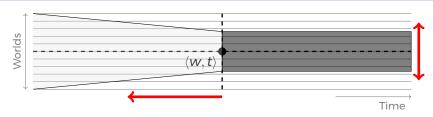
ways to include A-worlds

- expand accessible worlds
- shift back in time

[Past-as-Modal] [Past-as-Past]
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Fake Past Approaches



ways to include A-worlds

- expand accessible worlds
- shift back in time

[Past-as-Modal]

[Past-as-Past]

- which of these happens?
 - English: possibly different for SP vs. PP
- what role does temporal morphology play?
 - Japanese: what does -ta do?

Introduction

English

• SP is modal Schulz (2014)

both are temporal: SP one step, PP two steps

Ippolito (2013)

References

Japanese

• fake -tα is modal Ogihara (2014)

Outline

Introduction

- Fake Past
- Time and modality in Japanese conditionals
 - Ogihara (2014) about future counterfactuals
 - Our proposal
 - Predictions

Time and modality in Japanese conditionals Ogihara (2014) about future counterfactuals

Past-as-Modal in counterfactuals about the future

- -ta $_{[+\text{excl.context time}]}$ \rightarrow indicative about the past (i)
- (ii) -ta $_{[+excl.context\ world]} o PP$ subj; underspecified for time

future reference forces (ii):

(16) Mary-ga asita ki-tara, kaigi-ni de-ta Mary-NOM tomorrow come-cond meeting-Loc join-PAST MODAL 'If Mary had come tomorrow, she would have joined.' Fake Past Time and modality

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Time and modality in Japanese conditionals Ogihara (2014) about future counterfactuals

Past-as-Modal in counterfactuals about the future

- (i) $-t\alpha_{[+excl.context\ time]} \rightarrow indicative about the past$
- (ii) $-ta_{[+excl.context\ world]} \rightarrow PP$ subj; underspecified for time

future reference forces (ii):

(16) Mary-ga asita ki-tara, kaigi-ni de-ta daroo.

Mary-nom tomorrow come-cond meeting-loc join-past modal

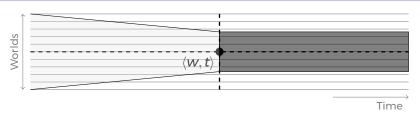
'If Mary had come tomorrow, she would have joined.'

open issues:

- counterfactuals without -ta (glossed as SP, but still.)
- no obvious extension to conditionals about the past
- problems with temporal reference

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Time and modality in Japanese conditionals Our proposal



gist of our proposal

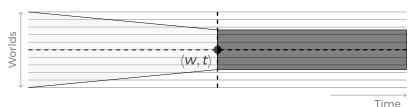
unified analysis of conditionals

true at $\langle w, t \rangle$ iff for all points in the dark rectangle at which antecedent is true, consequent is also true.

(similar to English - Kaufmann, 2005)

- variation in the size and location of the rectangle
 - determined in part by temporal/aspectual morphology
 - context dependent no marking of SP/FLV readings
- two scopes for -ta in consequent
 - inner -ta: under conditional; temporal
 - outer -ta: over conditional; backshift

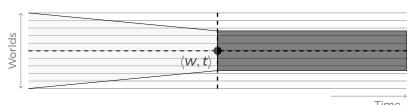
Time and modality in Japanese conditionals Our proposal



inner tense: no backshift

 $[[RAD_A](ASP_A)]COND][[RAD_C](ASP_C)]TENSE$ (17)

> true at $\langle w, t \rangle$ iff at all points in the dark rectangle at which [[RAD_A](ASP_A)] is true, [[[Radc](Aspc)] Tense] is also true



inner tense: no backshift

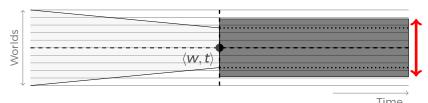
(17) $[[[RAD_A](ASP_A)]COND][[[RAD_C](ASP_C)]TENSE]$

true at $\langle w, t \rangle$ iff at all points in the dark rectangle at which [[RAD_A](ASP_A)] is true, [[Rad_C](ASP_C)] Tense] is also true

- -tei- in antecedent required for past reference
- TENSE has temporal interpretation

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inner tense: no backshift

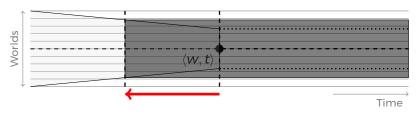
```
(17) [[[RAD_A](ASP_A)]COND][[[RAD_C](ASP_C)]TENSE
```

true at $\langle w, t \rangle$ iff at all points in the dark rectangle at which [[RAD_A] (ASP_A)] is true, [[[Rad_C] (ASP_C)] Tense] is also true

- -tei- in antecedent required for past reference
- TENSE has temporal interpretation
- CF possible; same temporal interpretation

(SP)

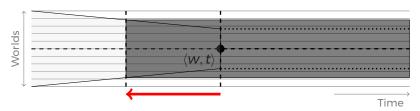
Time and modality in Japanese conditionals Our proposal



outer -ta: backshift

(18)
$$\left[\left[\left[\left[RAD_A \right] (ASP_A) \right] COND \right] \left[\left[RAD_C \right] (ASP_C) \right] \right] ta$$

true at $\langle w, t \rangle$ iff at all points in the dark rectangle at which [[RAD_A] (ASP_A)] is true, [[Rad_C] (Asp_C)] is also true



outer -ta: backshift

Introduction

(18)
$$\left[\left[\left[\left[RAD_A \right] (ASP_A) \right] COND \right] \left[\left[RAD_C \right] (ASP_C) \right] \right] t \alpha$$

true at $\langle w, t \rangle$ iff at all points in the dark rectangle at which [[RAD_A] (ASP_A)] is true, [[RAd_C] (ASP_C)] is also true

- -tei- not required for past reference
- -ta has temporal interpretation

- (19) Mosi Oswald-ga Kennedy-wo korosa-naker-eba, ... MOSI Oswald-NOM Kennedy-ACC kill-NEG-COND
 - tigau hito-ga koros-u darō. other person-NOM kill-NPST MODAL 'If O doesn't kill K, someone else will.'
 - ⇒ indicative; was felicitous (and false) until 11/21/1963
 - tigau hito-ga korosi-ta darō. other person-NOM kill-PAST MODAL 'If O hadn't killed K. someone else would have.'
 - >> PP subjunctive; is felicitous (and false) now

- no Perfect in antecedent
 - > no reference to times before S' (19a): no backshift - S' not before S (19b): backshift - S' may precede S

- (20)Mosi Oswald-ga Kennedy-wo korosi-tei-naker-eba, ... MOSI Oswald-NOM Kennedy-ACC kill-TEI-NEG-COND
 - tigau hito-ga koros-u darō. a. other person-nom kill-NPST MODAL 'If O didn't kill K. someone else will.'
 - >> felicitous between shots and news of K's death
 - b. tigau hito-ga korosi-ta darō. other person-NOM kill-PAST MODAL 'If O didn't kill K. someone else did.'
 - > non-predictive indicative; felicitous (and true) now

- Perfect in antecedent
 - reference to times before S' possible (20a): Nonpast in consequent - K must be alive (20b): Past in consequent: K may be dead

`timeless" counterfactuals

(no past time at which the antecedent was possible)

- (21)Mosi kyū-ga gūsū dat-tara, ni-de warikire-ru. even COP-COND 2-INSTR be divisible-NPST 'If 9 were even, it would be divisible by 2.'
- (22) ??Mosi kyū-ga gūsū dat-tara, ni-de warikire-ta. even COP-COND 2-INSTR be divisible-PAST MOSI 9-NOM ??'If 9 had been even, it would have been divisible by 2."

- (21) preferred; no -ta
- (22) forces a temporal reading e.g., 'if "9" had been assigned to an even number ...'
- similar for English

status of the antecedent

- (23)[Mary is not likely to come to the office tomorrow.]
 - a. Mary-ga kitara, kaigi-ni de-ru darō. Mary-NOM come-/ meeting-LOC join-NPST MODAL 'If Mary came, she would join the meeting.'
 - b. #Mary-ga kitara, kaigi-ni de-ta darō. Mary-NOM come-/ meeting-LOC join-PAST MODAL #'If Mary had come, she would have joined.'
- (24)[Mary is dead.]
 - a. #Mary-ga kitara, kaigi-ni de-ru darō. Mary-NOM come-/ meeting-LOC join-NPST MODAL #'If Mary came, she would join the meeting.'
 - Mary-ga kitara, kaigi-ni de-ta darō. h Mary-NOM come-/ meeting-LOC join-PAST MODAL 'If Mary had come, she would have joined.'

cancellability of counterfactuality

Introduction

[Mary is not likely to come to the office tomorrow.]

Mary-ga ki-tara, kaigi-ni de-ru daroo. (25)Mary-NOM come-COND meeting-LOC join-NPST MODAL 'If Mary came tomorrow, she would join the meeting.'

> Hyottositara ku-ru kamosirenai kedo. Perhaps come-NPST might though 'Perhaps she might come, though.'

cancellability of counterfactuality

[Mary is not likely to come to the office tomorrow.]

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[Mary is dead.]

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Mary-ga ki-tara, kaigi-ni de-ta daroo. (26) Mary-NOM come-cond meeting-Loc join-PAST MODAL 'If Mary had came tomorrow, she would have joined.'

#Hyottositara ku-ru kamosirenai kedo. Perhaps come-NPST might though '#Perhaps she might come, though.'



Outline

- Fake Past
- Time and modality in Japanese conditionals
- Conclusions

Past is past in Japanese counterfactuals.

- Temporal reference + World-accessibility
- Inner -ta/ Outer -ta
- Past reference / Backshift
- Aspect marker in Antecedent
- New data

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Introduction

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