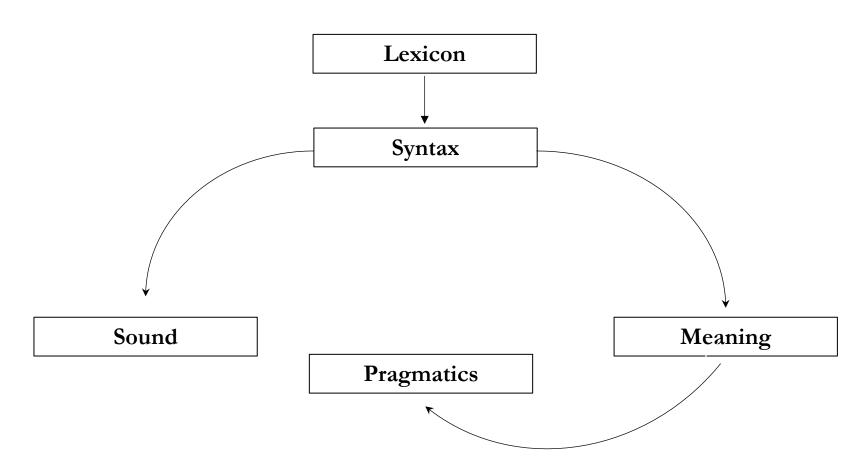
Articles, Telicity, and Lexical Transfer

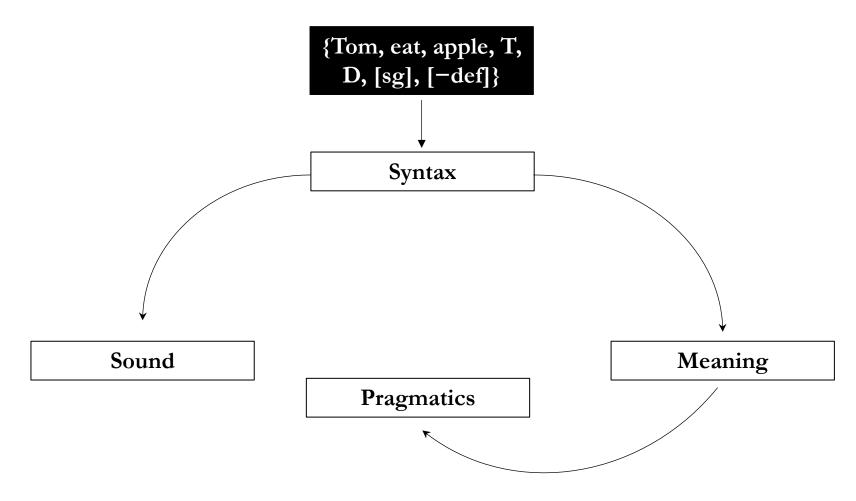
Shigenori Wakabayashi Takayuki Kimura (Chuo University)

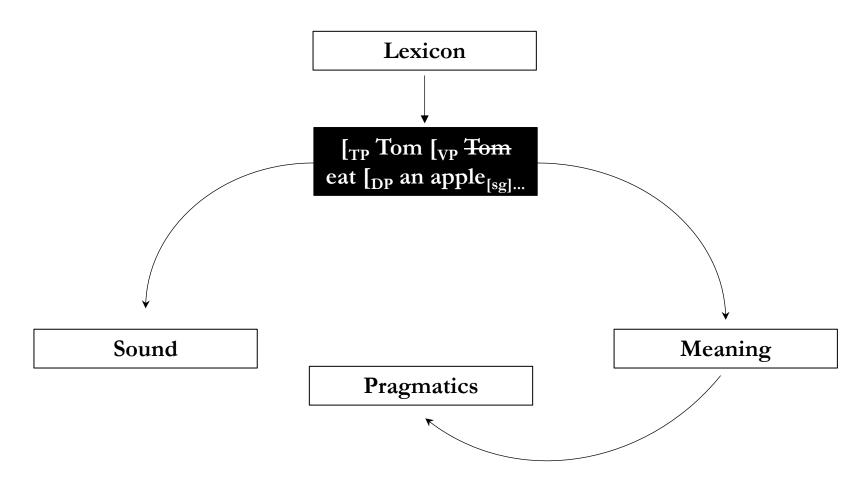
J-SLA Autumn Seminar 2018

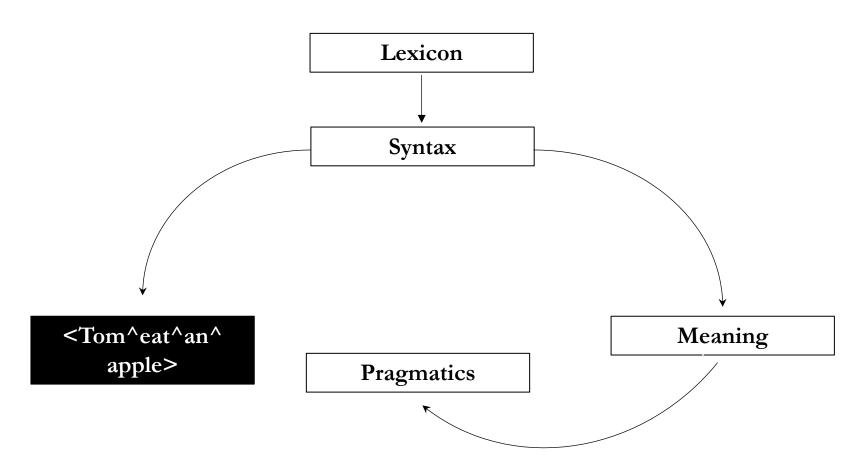
Contents

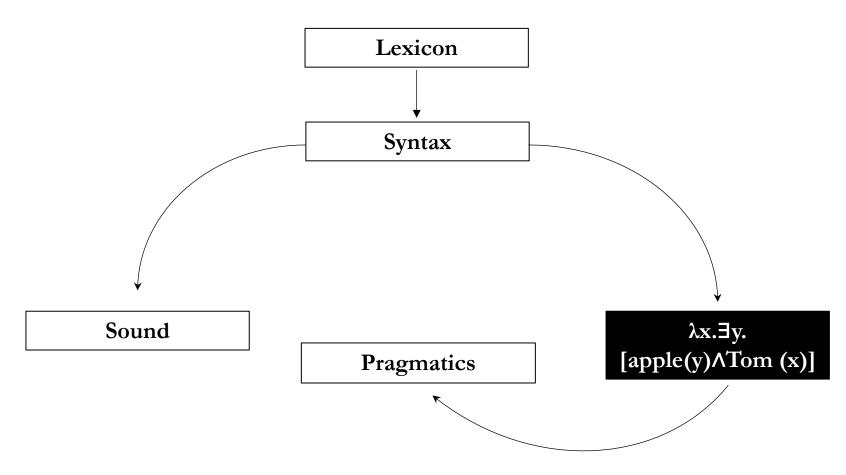
- Model of Grammar
- Telicity
 - Composition of Telicity
 - Telicity at the Syntax-Semantics Interface
 - Telicity in Japanese
- Previous Studies
 - Kaku (2009)
 - Kimura (2014)
- Explanation: Wakabayashi & Kimura (2018)
- Remaining Problems and Future Research

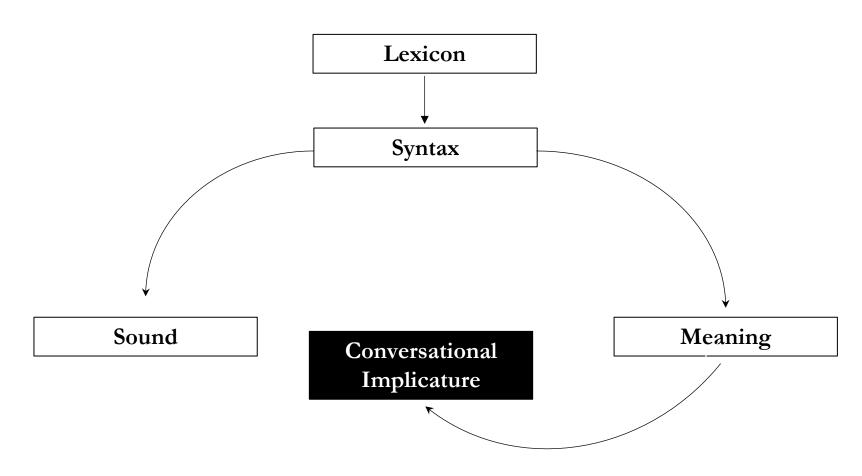












Telicity

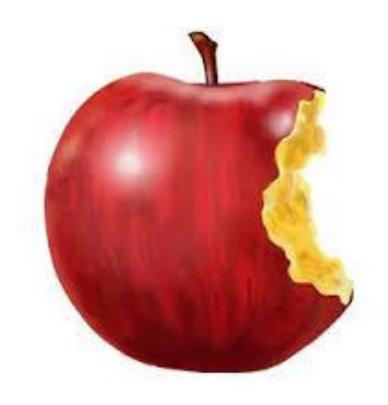
What is Telicity?

- Telicity is an end-point of an event.
- (A)telicity of transitive VPs is determined by the quantity of the object DP (Verkuyl's generalization (Verkuyl, 1993, among others).

(A) telicity

Tom ate an apple. not appropriate!



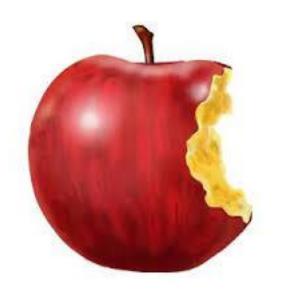


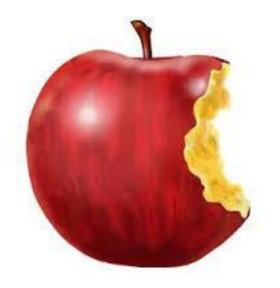
(A) telicity

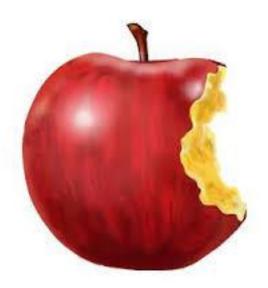
Tom ate an apple.



not appropriate!







Composition of Telicity

Semantic Composition

- Krifka (1998)
 - Telicity of VP is determined by the [+/-quantised] property of DP
 - DP [+quantised] \rightarrow VP [+telic] DP [-quantised] \rightarrow VP [-telic]
 - Quantisation is calculated as follows: [+quantised] iff $\alpha \bigoplus \alpha \neq \alpha$ (e.g. two apples \bigoplus two apples \neq two apples) [-quantised] iff $\alpha \bigoplus \alpha = \alpha$ (e.g. apples \bigoplus apples=apples)

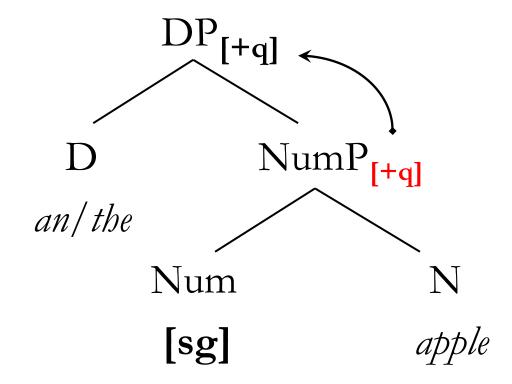
Semantic Composition

- [+quantised] ([+q]) DP
 - singular (e.g., an apple, the apple)
 - definite plural (i.e., the apples, these apples)
- [-quantised] ([-q]) DP
 - bare plural (i.e., apples)
 - indefinite plural (e.g., many apples)

Telicity at the Syntax-Semantics Interface (Soh & Kuo, 2005)

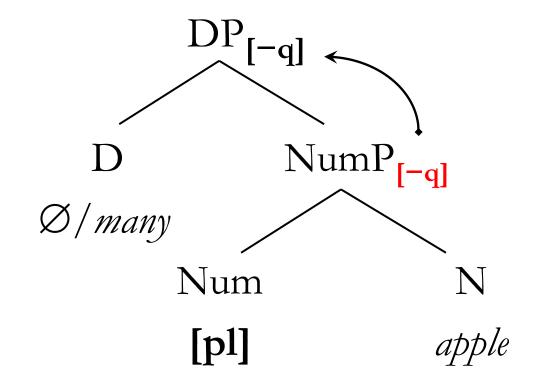
Telicity at Syntax-Semantics Interface

(1) singular



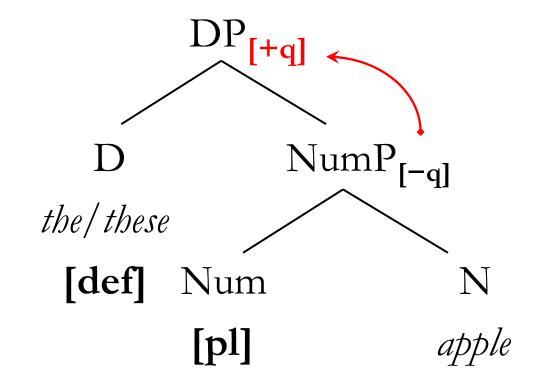
Telicity at Syntax-Semantics Interface

(2) indefinite/bare plurals



Telicity at Syntax-Semantics Interface

(3) definite plurals



• Japanese permits bare nominals (e.g., ringo (apple)).

(4) Taro-ga ringo-o tabeta.

-Nom apple-ACC ate

'Taro ate an/the apple(s).'

telic/atelic

• In Japanese, Num, quantifiers and demonstratives are optionally merged (Wakabayashi, 1997; Déprez, 2005).

```
(5) Taro-ga [kono/korerano [Num ringo-o]] tabeta. telic -Nom this/these apple-ACC ate 'Taro ate this/these apple/s.'
```

• In Japanese, Num, quantifiers and demonstratives are optionally merged (Wakabayashi, 1997; Déprez, 2005).

(6) Taro-ga [takusanno [Num ringo-o]] tabeta. atelic
-Nom many apple-ACC ate

'Taro ate many apples.'

Previous Studies: Kaku (2009)

Participants

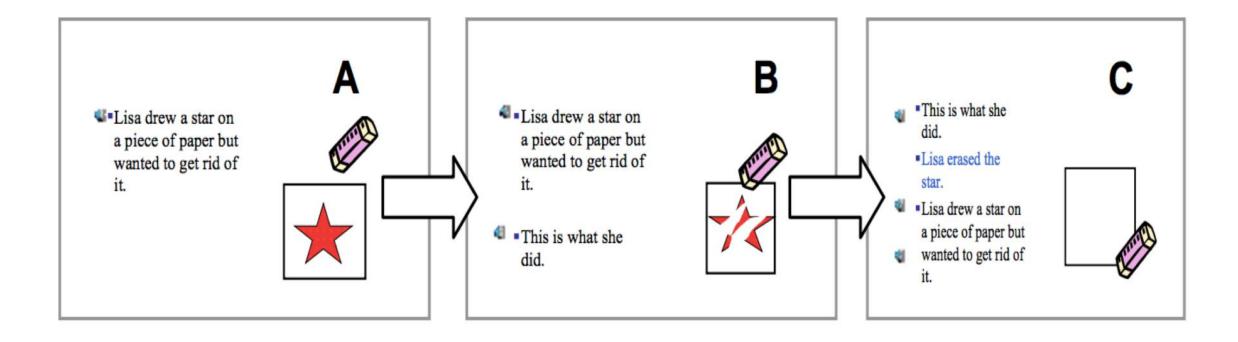
- 196 Japanese speaking learners of English
 - 60 2nd year junior high school students
 - 96 intermediate learners
 - 40 advanced learners
- 20 native speakers of English

Task and Materials

- Truth-value judgment task
 - Yes/No/I don't know
 - Four conditions: singular/plural × Yes/No
- Materials (only singular version)

paint the door, build the house, erase the star, draw the picture, eat the orange, fill the glass, assemble the chair, untie the bow, empty the bottle, remove the cork, circle the star, shred the document, melt the candle, disassemble the table, unwrap the present, type the name

Task and Materials



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Task and Materials

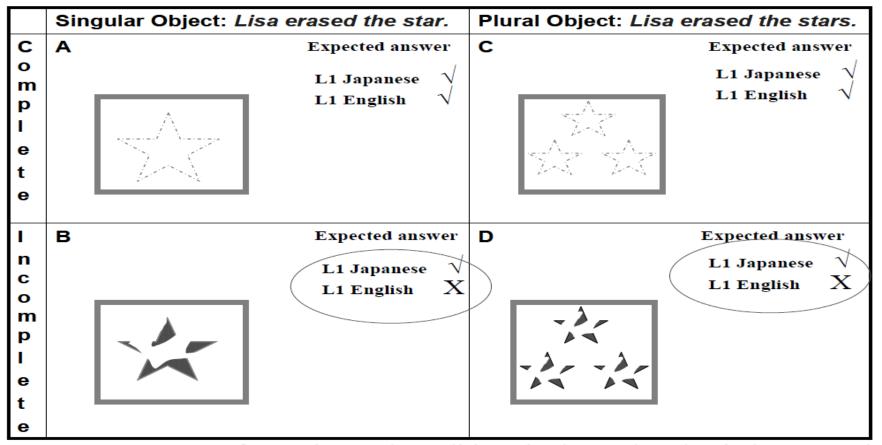
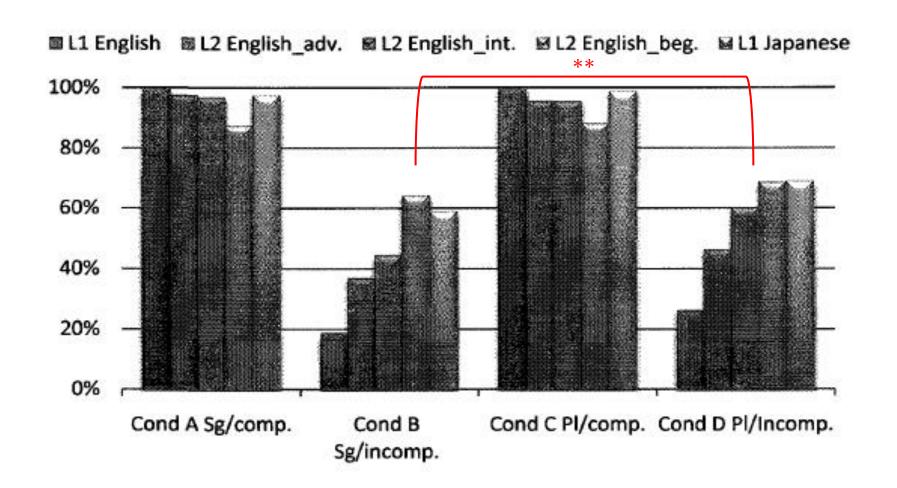


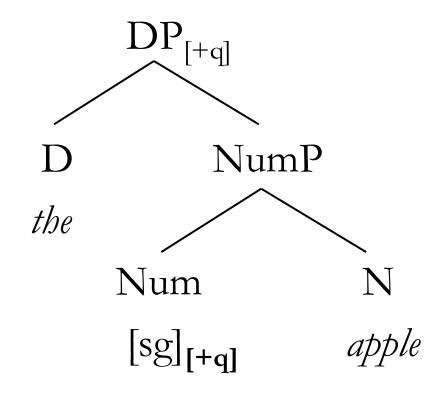
Table 1. Summary of experimental conditions in the truth-value judgment task.

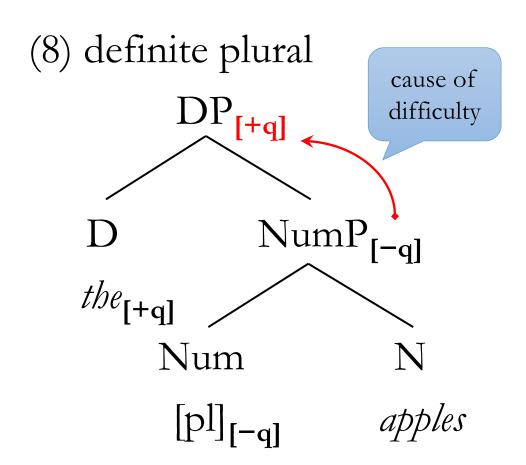
Results



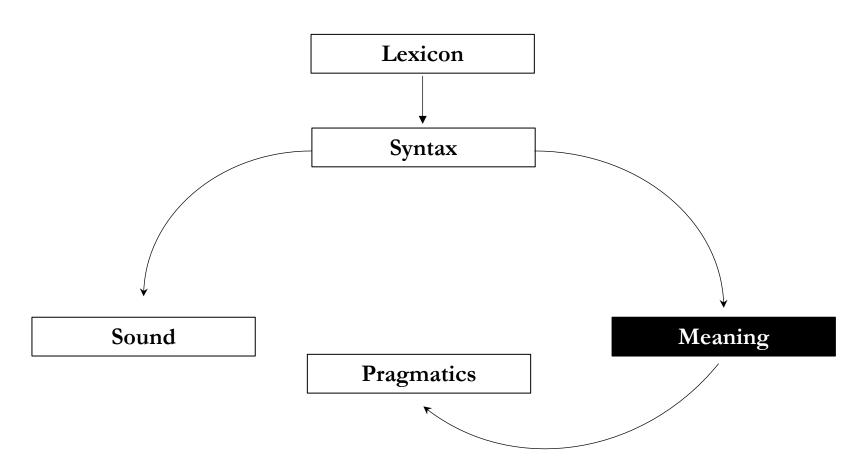
Kaku (2009)

(7) definite singular



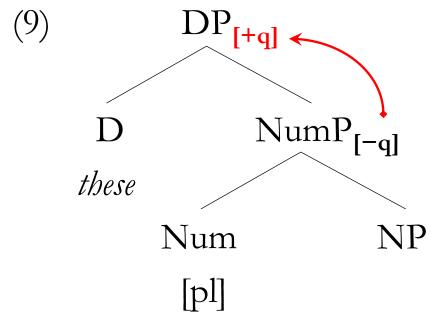


Where do Problems Lie?



A Prediction Based on Kaku (2009)

- Japanese has plural demonstratives, korerano (these).
- these NPs change the quantisation value.
 - → these NPs should be difficult for JLEs, just like the NPs.



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Previous Studies: Kimura (2014)

Kimura (2014)

- 8 Native speakers of English
- 25 Japanese university students learning
 - 9 beginners
 - 8 Low Intermediate
 - 8 High Intermediate
- Acceptability Judgment Task
 - -2 (completely unnatural) ...+2 (completely natural)

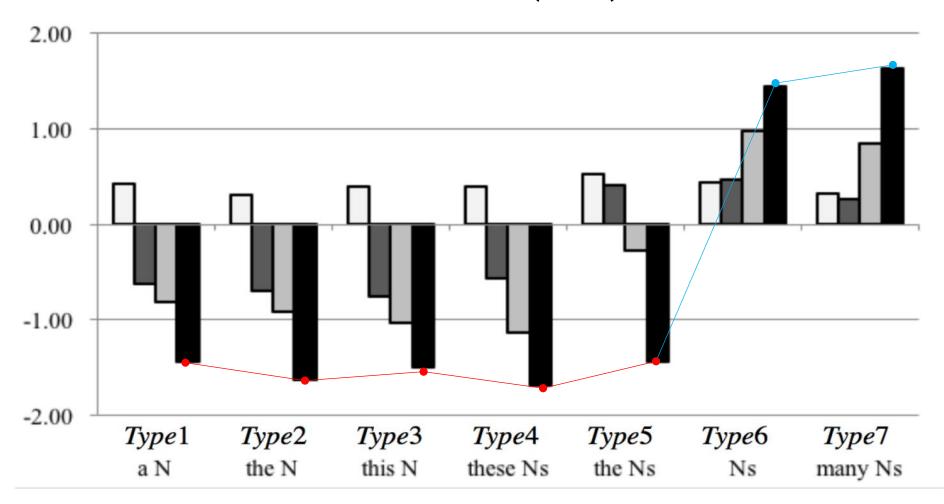
Types of Test Sentences

The second clause cancels the event and is only compatible with an atelic VP.

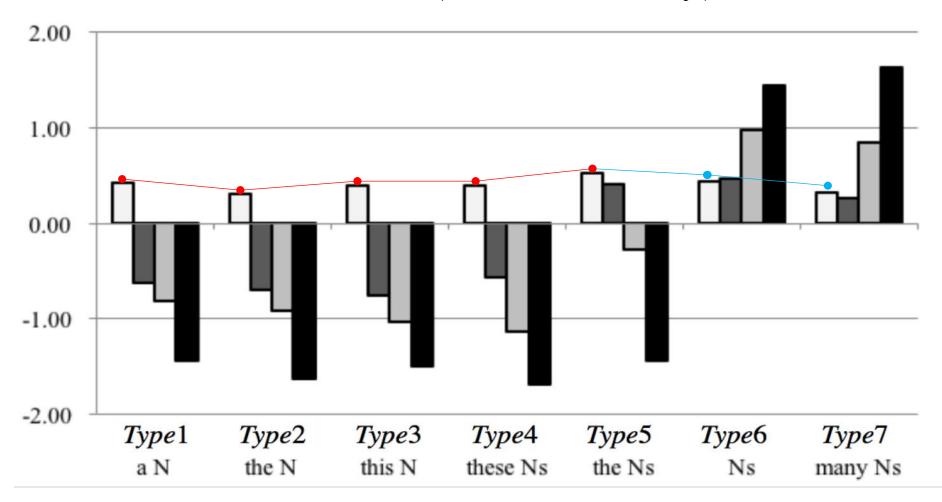
```
#Tom ate an apple, but he didn't
Type 1: a NP ([sg][-def]):
                                 finish eating it.
Type 2: the NP ([sg] [+def]): #Tom ate the apple, but ...
Type 3: this NP ([sg] [+def]): #Tom ate this apple, but...
Type 4: these NPs ([pl][+def]): #Tom ate these apples, but...
Type 5: the NPs ([pl] [+def]): #Tom ate the apples, but...
Type 6: \emptyset NPs ([pl] [-def]): Tom ate apples, but...
Type 7: many NPs ([pl] [-def]): Tom ate many apples, but...
```

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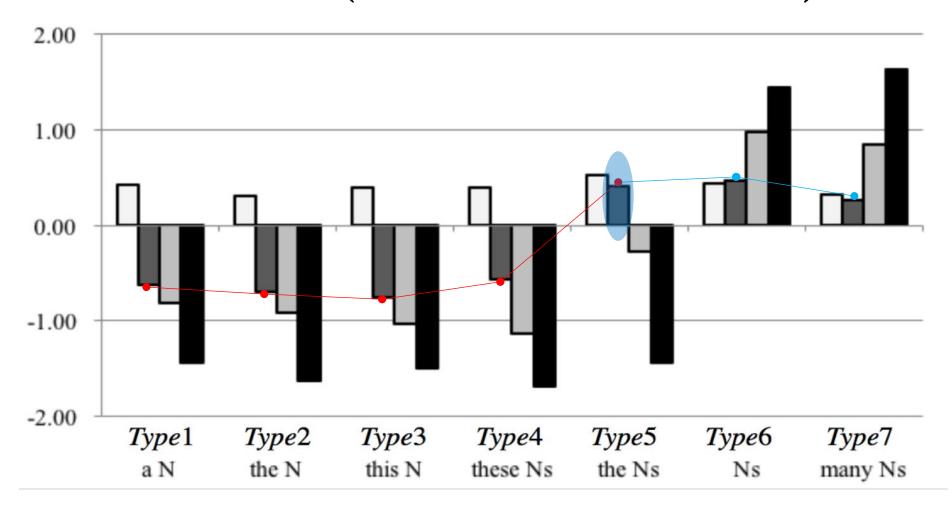
Results (NS)



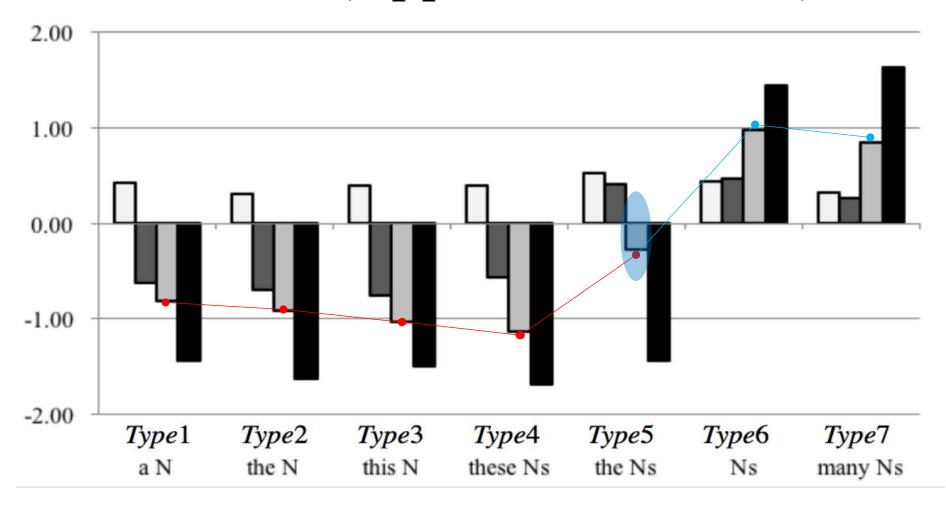
Results (Elementary)



Results (Lower Intermediate)



Results (Upper Intermediate)



Summary of Results

- NS
 - Responded as expected by the theory
- Elementary
 - Made no distinction between types
 - Responses to this NP, these NPs and many NPs were not good
- Upper & Lower Intermediate
 - Distinguished between singular and plural NPs
 - Correct except the Ns (responses to the NPs were similar to Ns)
 - these NPs was much easier than the NPs

Kimura's (2014) Observation

• L1 transfer was NOT observed at the early stage, contrary to the Full Transfer Hypothesis of Schwartz & Sprouse (1994, 1996).

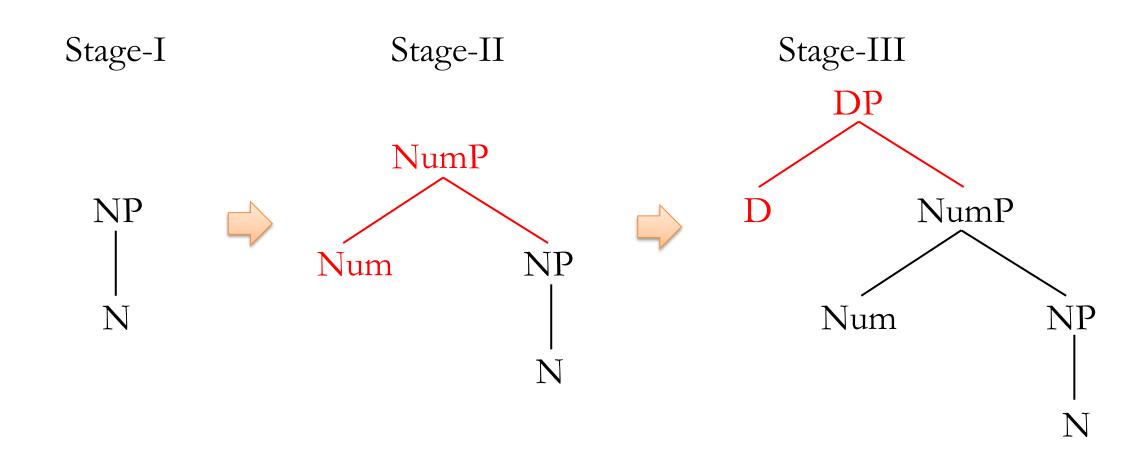
• L1 transfer emerges at subsequent stages in accordance with the Delayed Transfer Hypothesis (Wakabayashi, 1997, 2002; Suda & Wakabayashi, 2007).

Explanation: Wakabayashi & Kimura (2018)

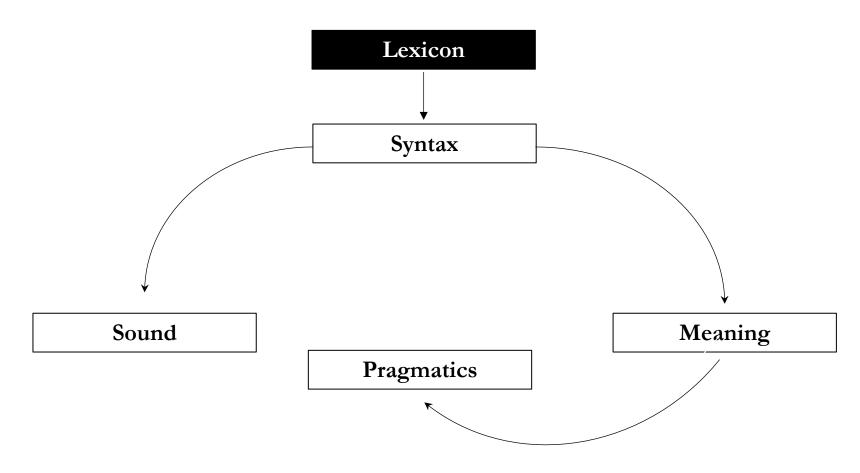
Proposal

• Kimura's (2014) results can be explained by gradual structure-building (Vainikka & Young-Scholten, 1994, 1996; Wakabayashi, 1997, 2002).

Wakabayashi & Kimura (2018)



Where do Problems Lie?



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Remaining Problems and Future Research

Why are Beginning Learners insensitive to Functional Elements?

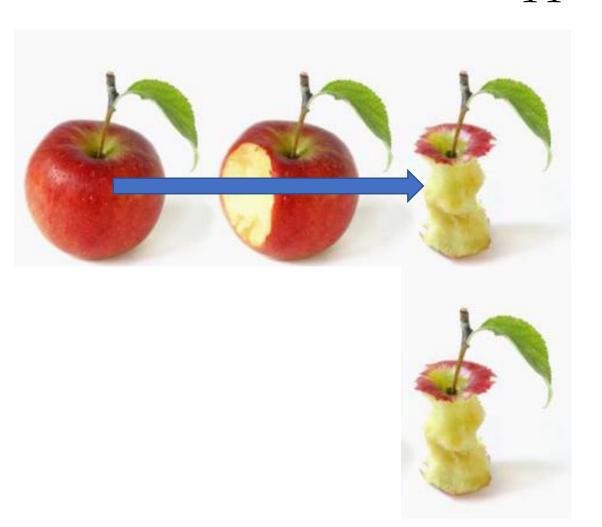
• Kaku (2009): Complexity of semantic computation

• Wakabayashi & Kimura (2018): Absence of <u>functional</u> <u>categories</u> in the L2 lexicon

L2ers at Early Stages Really do not Project Functional Categories, NumP and DP?

- If D does not exist in interlanguage, L2 learners may ignore D items (cf. Shallow Structure Hypothesis, Clahsen and Felser, 2006).
 - Then, L2 learners should make no distinction between *This is a pen* and *That is a pen*. Is this plausible?
- L2 learners may treat *this/that/these/those* as adjectives when they are attributive. L2 learners should not be aware of the differences between Adj and D? Is this plausible?
 - Morphology: Demonstratives have different forms for [+/- singular].
 - Syntax: Demonstratives always appear at the edge of a noun phrase.
 - Semantics: Demonstratives have no descriptive content.

"Tom ate an apple."



change (event)

Tom did the action of eating an apple.

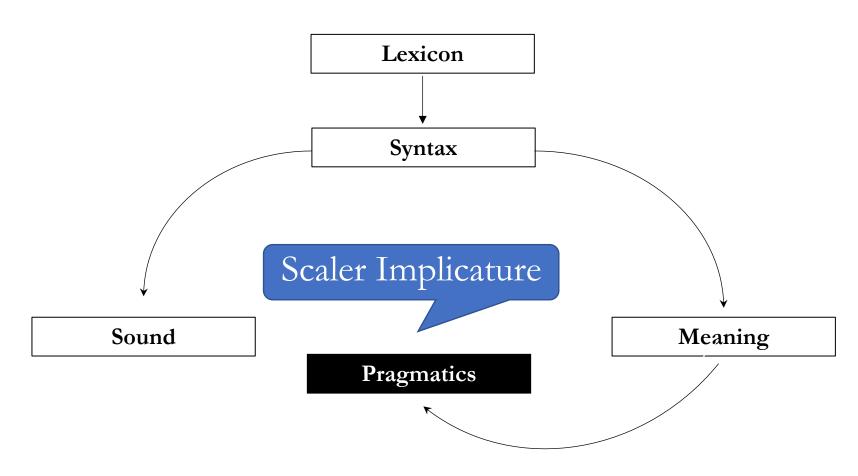
result (state)

So, the apple has been eaten up.

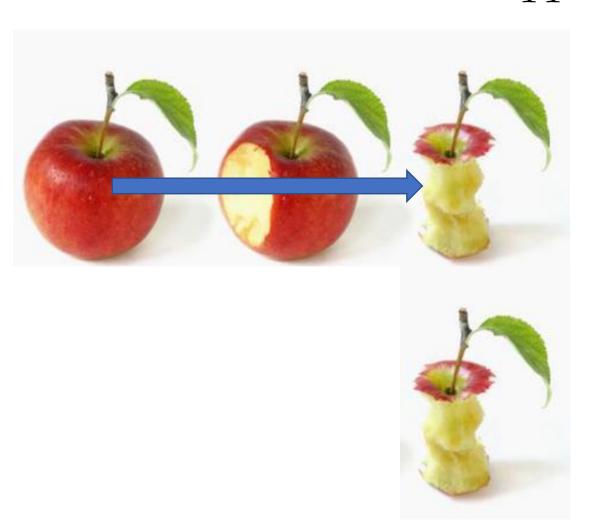
Telicity as Maximalization and Scaler Implicature

- Telicity is calculated by interaction between a covert operator, *Max*, and scaler implicature in pragmatics (Fillip, 2008).
- Max picks out the unique largest (upper bound) event.
- DPs with [+q] (e.g., ate an apple/two apples) provide a scale and an upper bound.
- DPs with [-q] (e.g., ate apples, drink water) fail to provide them.

Telicity as Maximalization and Scaler Implicature



"Tom ate an apple."



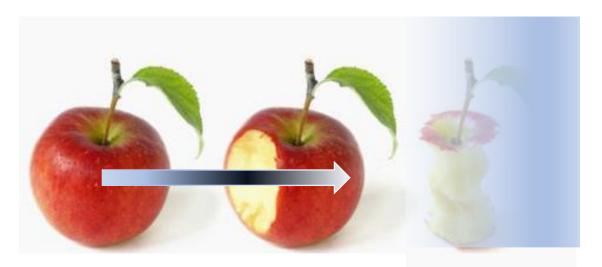
change (event)

Tom did the action of eating an apple.

result (state)

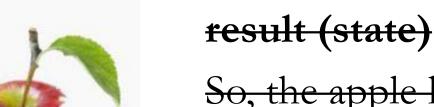
So, the apple has been eaten up.

"Tom ate an apple." in Early Interlanguage



change (event)

Tom did the action of eating an apple.



been eaten up.

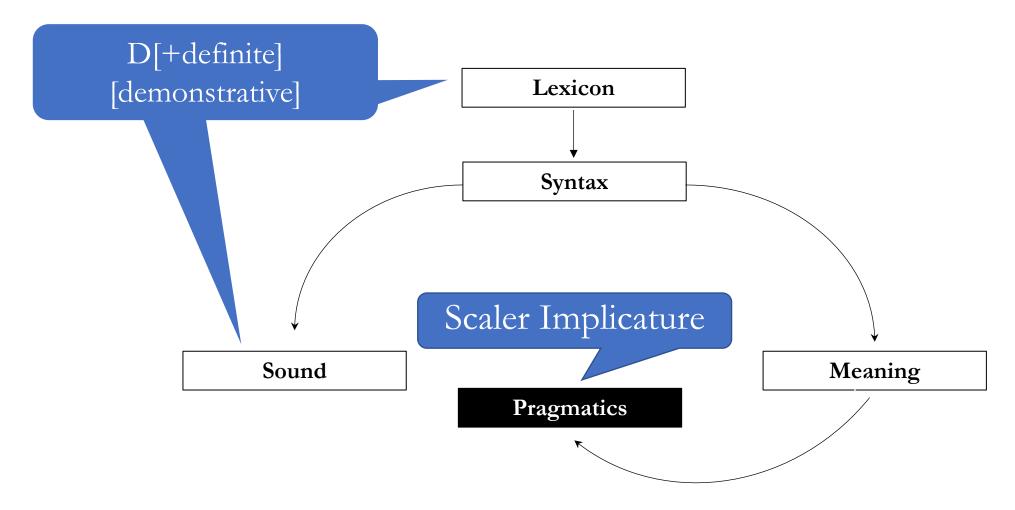
Telicity in Early Grammar

• The failure to compute telicity by beginners might be attributed to the difficulty in pragmatics.

Telicity in an Intermediate Learner's Grammar

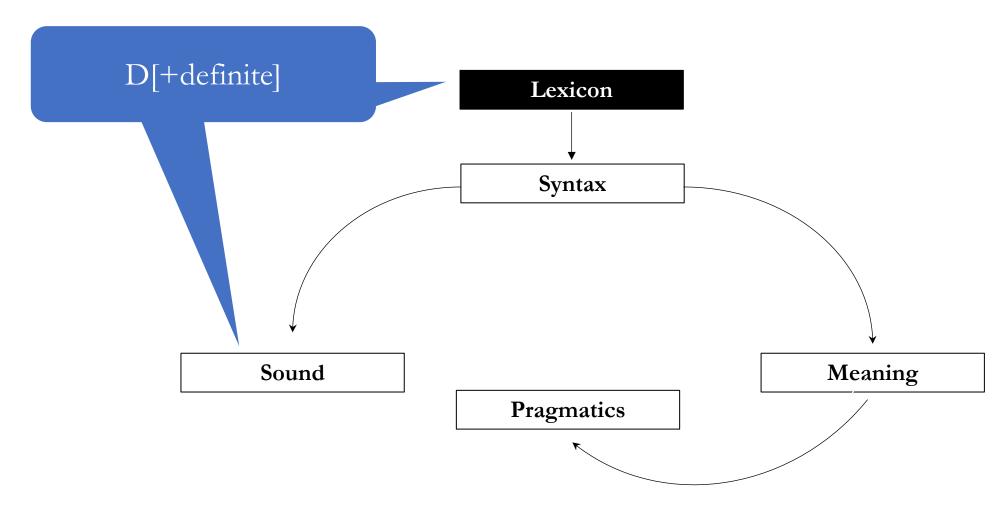
- Learners compute telicity expressed by this/that/these/those N.
- However, they fail to compute telicity expressed by the N.

This and These Are Included in Computation



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The is Not Included in Computation



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Conclusion

- Initial: Semantics OK/ Pragmatics (implicature) NG
- Intermediate: Semantics OK / Pragmatics (implicature) OK but Lexical Items are only those transferred from a learner's L1.
- Advanced?
 - →Prediction [Definite] is
 - A) acquirable : Interpretable
 - B) not acquirable : POS + pragmatic knowledge used in L1
 - Also, pragmatic knowledge in Filip (2008)

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