What native speakers really know about their reflexives and pronouns

Roy Roy

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Task 1: t object ta Task 2: t

Spec DP ta

Task 3: the contrastive Spec DP task

Takeaway

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What native speakers really know about their reflexives and pronouns

Perusing Bangla and Malayalam

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Three language tasks were designed to study the syntactic and pragmatic distribution of the reflexives and pronouns in adult Bangla and Malayalam as a precursor to an acquisition study, based on the following:

2. the Conorieal Binding Theory (Chameley, 1981, 1986).

- the Canonical Binding Theory (Chomsky, 1981, 1986)
- Binding and reflexivity (Reinhart & Reuland, 1993; Reuland, 2015) are licensed at the C-I interface.
- Rule I (Reinhart, 1983; Grodzinsky & Reinhart, 1993; Reinhart, 2006), an
 interface rule of reference resolution, replaces Principle C. It also accounts for
 cases where the antecedent does not c-command the reflexive (eg. The men who
 killed him hated John).
- the syntactic residue of anaphora resolution is an Agree operation between the anaphor and the antecedent (Reuland, 2011).

Takeawa

- Bangla (PERSON, NUMBER, HONORIFICITY, PROXIMITY, REFERENTIALITY)
 - (1) object pronouns must not be bound by the nearest subject.
 - a. the o-set (eg. oke 'himself/herself')
 - b. the fe-set (eg. take 'himself/herself')
 - (2) Spec DP pronouns can be bound by the nearest subject (or 'his/her', tar 'his/her')
- Malayalam (PERSON, NUMBER, GENDER, PROXIMITY)
 - (3) object pronouns must not be bound by the nearest subject (eg. avale/avane 'herself/himself (DO)', avalu/avanu 'herself/himself (IO)').
 - (4) Spec DP pronouns can be bound by the nearest subject (eg. avalude/avante 'her/his')

Describing Bangla and Malayalam reflexives

What native speakers really know about their reflexives and pronouns

Describing the pronouns

reflexives

Bangla (NUMBER)

- (5)object reflexives must be bound by the closest subject (eg. nidge-ke 'self.sg.acc')
- spec DP reflexives must be bound by the closest subject (eg. nidger 'self.sg.gen')
- Malayalam (PERSON, NUMBER)
 - object reflexives must be bound by the closest subject: (7)
 - a. pro-SELF (eg. avane-tanne 'himself')
 - b. SELF-SELF (eg. tanne-tanne 'herself/himself')
 - Spec DP reflexives may be bound by the closest subject (eg. tan-te (8) 'self.GEN')
 - Simplex taan has the potential to be long-distant bound
 - Malayalam

[anjui [tantei/j/k sahodhari-(v)-e adikyunnəthə] Krishnani kandu ennə] unnik Krishnan saw Aniu self's sister-ACC beat PART COMP Unni parannu said

'Unnik said that Krishnani saw Anjui beating selfi/j/k's sister'

- what elements do these languages allow to be bound locally?
- do speakers permit the reflexive and both pronouns in Spec DP to be bound [as in (10)], as literature (Sengupta, 2000; Jayaseelan, 2017a) suggests. If yes, is there high or/and equal preference for both in this syntactic position. What do their choices tell us?
 - (10) Bangla

```
mala<sub>i</sub> nidzer<sub>i</sub>/or<sub>i</sub> boi portʃtʃ<sup>h</sup>e mala self's/her book reading
```

'Mala $_i$ is reading her_i book'

- do speakers allow apparant violations of Principle C?
 - (11) Malayalam (also very very robust in Bangla)

```
anuup<sub>i</sub> anuup-in-te<sub>i</sub> atʃtʃan-te kai pidikkuke aanə
Anoop Anoop-in-GEN father-GEN hand hold.PROG be.PRS
```

'Anoopi is holding Anoop'si father's hand'

• Do speakers show the potential to use Rule I?

The study in question

What native speakers really know about their reflexives and pronouns

• Bangla: 142 participants

• Malayalam: 97 participants

Tasks 1 and 2 were felicity judgement tasks

Task 3 was a choice task

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The three tasks

Task 1: the object task Task 2: the non-

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Task 1: the object task

Based on what you see in the picture below,

judge whether it matches the description

underneath it. If there is a match, mark MATCH.

If there is a mismatch, mark MISMATCH.

What native speakers really know about their reflexives and pronouns

Task 1: the object task

pulishta nijeke mathay marchhe MATCH

(i)

MISMATCH

judge whether it matches the description underneath it. If there is a match, mark MATCH. If there is a mismatch, mark MISMATCH.

Based on what you see in the picture below,

pulishta oke mathay marchhe

MATCH MISMATCH

(ii)

Based on what you see in the picture below, judge whether it matches the description underneath it. If there is a match, mark MATCH, If there is a mismatch, mark MISMATCH,

pulishta take mathay marchhe

MATCH MISMATCH

(iii)

Figure: the policeman is hitting x on th head: (i) the policeman is hitting himself on the head (ii) the policeman is hitting him on the head (iii) the policeman is hitting him on the head

contrastive Spec DP ta (12) the girl is looking at x in the mirror

a. B: meje-ta x-ke $ajena-te dek^htftf^he$

b. M: kuţṭi kaŋŋaadiyil x-ine nokkunnu

(13) the boy is giving a kiss to x

a. B: tf^hele-ta x-ke hami ditftf^he

b. M: kutti x-inu umma kodukkunnu

(14) the policeman is hitting x (on the head)

a. B: pulif-ta x-ke mathay martstshe

b. M: risi polisukaran x-ine adikkunnu

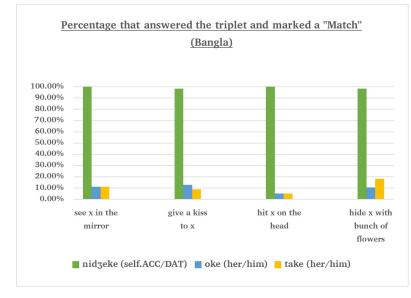
(15) hide x with a bunch of flowers

a. B: meje-ţa nidzeke p^h uler tora dije d^h eke re k^h et f^h e

What native speakers really know about their reflexives and pronouns

Task 1: the object task

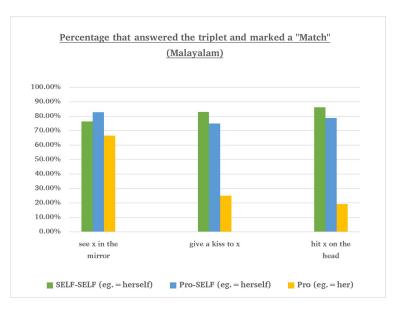




What native speakers really know about their reflexives and pronouns

Task 1: the object task





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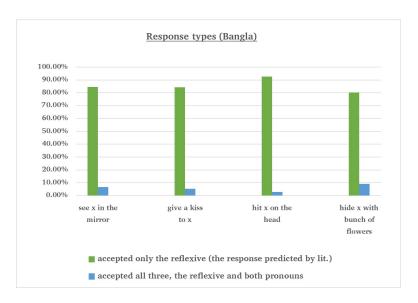
Task 1: the object task Task 2: the non-

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Task 3: the contrastive Spec DP ta

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What native speakers really know about their reflexives and pronouns

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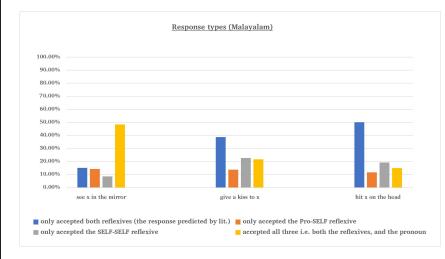
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The three tasks Task 1: the

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Task 2: the
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Task 3: the contrastive Spec DP to





Bangla

- the match percentage was the highest for the reflexive.
- Across predicates the most common response was to accept only the reflexive (the response predicted by the lit).

Malayalam

- The highest match percentage predicate-wise:
 - "see x in the mirror": Pro-SELF
 - "give a kiss to x": SELF-SELF
 - "hit x on the head": SELF-SELF
- In two out of three predicates, the most common response type was to accept both reflexives.
- However, in "look at x in the mirror", the most favoured response type (48.39%) was to accept all three. It seems the "pronoun" has, at least in that context, a "reflexivizing function" (Reinhart & Reuland, 1993)

Task 2: the non-contrastive Spec DP task

What native speakers really know about their reflexives and pronouns

Task 2: the contrastive Spec DP task

eta Shamir



eta Shamirer school bag

(i)

Based on what you now know about the character above, judge if the picture given below matches the description underneath it. If there is a match, mark MATCH, If there



MATCH MISMATCH

(ii)

Figure: (i) This is Shamir....This is Shamir's school bag. (ii) Shamir is packing self's school bag

Spec DP tash
Task 3: the
contrastive
Spec DP tash

(16) Shamir is packing x's bag

- a. B: $\int omir x-er bag got \int^h at \int t \int^h e$
- b. M: samir x-inte bag pæk tseijuke anə

(17) Sheba is hugging x's sister

- a. B: $\int \int dx \, dx \, dx$ bon-ke hug kort $\int \int dx \, dx$
- b. M: si:ba x-inte anijattije kettipidikkunnu

(18) Hrishi is giving x's colour pencil to the girl

- a. B: rifi x-er colour pencil-ta meye-take $ditft^he$
- b. M: risi x-inte kalar pensil peŋkuttikku kodukkunnu

(19) The hen is looking at x's eggs

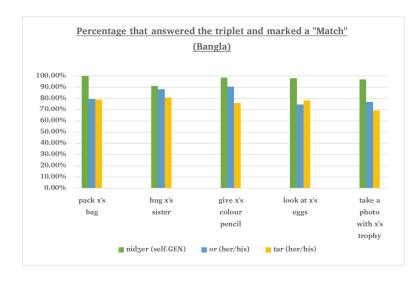
- a. B: murgi-ta x-er dim-gulo-ke dekhtstse
- b. M: koʻji avalude muttakale nokkunnu

(20) Sam is taking a photograph with x's trophy

- a. B: sæm x-er trofi-r songe tshobi tultstshe
- b. M: sæm x-inte trofijumaji foto edukkunnu

What native speakers really know about their reflexives and pronouns

Task 2: the noncontrastive Spec DP task



What native speakers really know about their reflexives and pronouns

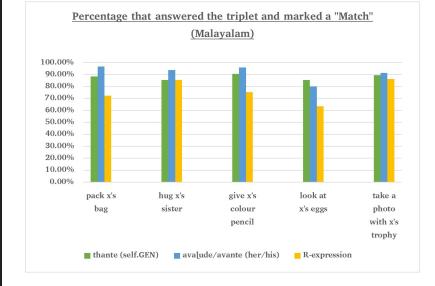
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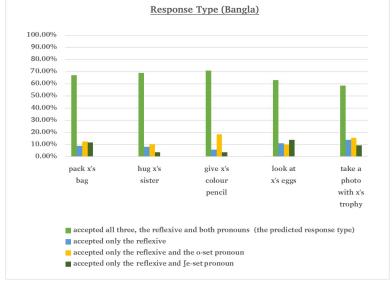
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Task 1: the object task Task 2: the noncontrastive Spec DP task Task 3: the



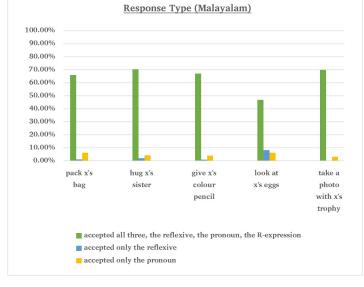
What native speakers really know about their reflexives and pronouns

Task 2: the contrastive Spec DP task



What native speakers really know about their reflexives and pronouns

Task 2: the noncontrastive Spec DP task



Bangla

- the match percentage was the highest for the reflexive.
- the primary response type across all predicates was to accept all three i.e. the reflexive and both pronouns (as predicted by the literature).
- the o-set is reserved for [+HUMAN] antecedents, while the ∫e-set is accepted for all animates
- Upto 13.85% of the participants only accepted the reflexive, indicating their awareness that the pronouns may also yield a deictic reading, thus rejecting it.

Malayalam

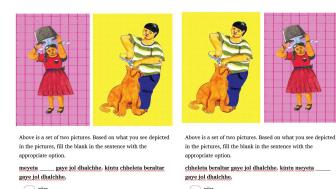
- the match percentage was highest for the pronoun (85.42% to 96.88%), not the reflexive, except in "look at x's eggs" (non-human antecedent).
- the majority response type across predicates was to accept all three i.e. the reflexive and both pronouns (as predicted by the literature).
- why is the pronoun preferred more than the reflexive? probably due to the
 potential long-distance binding properties (Jayaseelan, 1999, 2017b) of the
 simplex taan.

Task 3: the contrastive Spec DP task

(i)

What native speakers really know about their reflexives and pronouns

Task 3: the contrastive Spec DP task



- (i) Blank preceding the Linguistic Context (LC) [The girl]_{DP} is pouring water on 's body. But [the boy]_{DP} is pouring water on [the cat]_{DP} 's body.
- (ii) Blank succeeding the Linguistic Context (LC) [the boy]_{DP} is pouring water on [the $cat]_{DP}$'s body. But [The girl]_{DP} is pouring water on 's body.

(ii)

Describing the pronouns

& reflexive

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Task 1: th
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Task 2: th

contrastive Spec DP tas Task 3: the

contrastive Spec DP task

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- The blank was either to be filled with the reflexive (*nidʒer*) or one of the two pronouns (*or*, *tar*):
 - (21) a. Shathi is combing ___ 's hair, B: $\int at^hi$ ___ -er t $\int ul$ at $\int rat \int t^he$
 - b. **the boy is pulling** ___ 's tongue, B: tʃhele-ta ___ -er dʒib tantʃhe
 - c. the girl is pouring water on __ 's body, B: me- $\{a$ __ -er ga-e d3ol d h alt h e

What native speakers really know about their reflexives and pronouns

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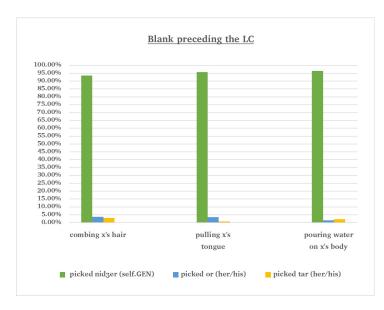
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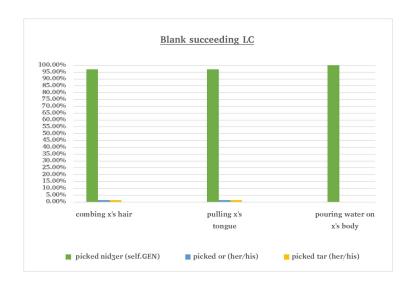
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Takeaway



What native speakers really know about their reflexives and pronouns

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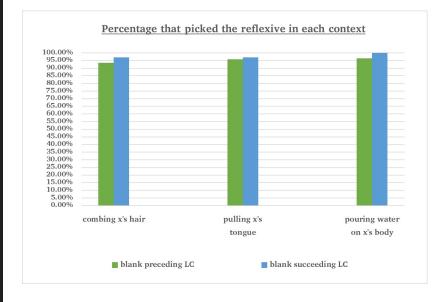
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Task 1: the object task Task 2: the noncontrastive Spec DP tas

Task 3: the contrastive Spec DP task





pronouns

(24)

• A reflexive can only have a bound reading, but a pronoun has three potential readings: (a) a bound reading (b) a free (deictic) reading and (c) a covaluation reading.

- Picking the pronoun when the linguistic context (henceforth, LC) succeeds the blank has two potential outcomes [(22) and (23)], but picking it when the LC precedes the blank has three potential outcomes [(22), (23) and (24)]. Participants, aware of these outcomes, chose the option that resulted in least ambiguity.
- (22)the pronoun gets bound by the closest subject DP (available both when the blank precedes and when it succeeds the LC): contextually felicitous "...[$_{CP}[[DP]$ the child] $_i[...[his_i]$ tongue]]]]..."
- (23)the pronoun gets a free reading (available both when the blank precedes and when it succeeds the LC): contextually infelicitous "...[$_{CP}[[_{DP}$ the child] $_i$ [...[his $_i$ tongue]]]]..."
- the pronoun gets a covaluation reading (available only when the blank succeeds the LC): contextually infelicitous "[$_{CP}$ [[$_{DP}$ the girl]_k [[[$_{DP}$ the dog]_l-s]...]]]...[$_{CP}$ [[$_{DP}$ the child]_i [... [his/her_{k/l} tongue]]]]"

- If adults are locally binding pronouns (like in Malayalam), we cannot immediately judge children doing the same as making an error.
- Animacy is a feature that plays a role in licensing the o-set and the fe-set (Bangla), and taan-set and the avan-set (Malayalam)
- contrastive focus building is a good way to get the child to produce the reflexive in languages like Bangla.
- Adult speakers show awareness of covaluation readings and therefore have the potential to use Rule I.
- A binary distinction between "pronouns" and "anaphors" does not exist (Reinhart & Reuland, 1993; Reuland, 2015). The way forward is to study the acquisition of the (bundles of) morphosyntactic (and semantic?) features such when they generate pronoun and reflexive interpretations.

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