

## Polar Questions vs. Kya-Questions in Hindi/Urdu

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#### Context

- Part of a Research Unit (FOR 2111) *Questions at the Interfaces* at Konstanz
- Looking at non-canonical uses of questions across languages
- We are projects P2 and P4, working on Urdu/Hindi and Romance.
- Today: polar kya in Urdu/Hindi.

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## Introduction: Polar Questions in Urdu/Hindi

- Urdu/Hindi has basic SOV word order.
- Question vs. declarative status is signalled via intonation.

**Declarative:** Intonational phrase boundary is L-L%

(1) fahina=ne norina=ko mara Shahina.F=Erg Norina.F=Acc hit-Perf.M.Sg 'Shahina hit Norina.'

Polar Question: Intonational phrase boundary is L/H-H%

(2) fahina=ne norina=ko mara? Shahina.F=Erg Norina.F=Acc hit-Perf.M.Sg 'Did Shahina hit Norina?'

# Polar kya

- Polar questions can 'optionally' be expressed with *kya*.
  - (2) fahina=ne norina=ko mara? Shahina.F=Erg Norina.F=Acc hit-Perf.M.Sg 'Did Shahina hit Norina?'
  - (3) kya fahina=ne norina=ko mara?

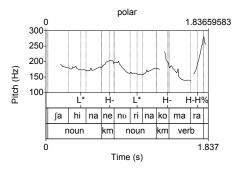
    KYA Shahina.F=Erg Norina.F=Acc hit-Perf.M.Sg
    'Did Shahina hit Norina?'

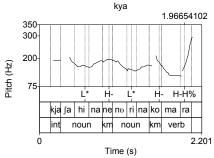
What's the difference between plain PolQs and kya-questions?

# Prosody and kya



- Prosodic investigations show that polar *kya* always has a flat intonation.
  - wh-kya ('what') have a H\* accent.





Play Sound

Play Sound

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### The distribution of kya

#### Today's talk

- 1 kya
  - The distribution of *kya*
  - A first approximation to the meaning difference between PolQs and *kya*-questions
- 2 More data: Speakers' assumptions and focus sensitivity
  - Speaker assumptions and *kya*-questions
  - kya as a focus sensitive operator
- 3 An analysis of polar-kya

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## The distribution of (polar-)kya I

- Grammars and previous literature report polar *kya* as appearing only clause initially in Urdu/Hindi.
  - However, Bhatt and Dayal (2014) point out that it can appear anywhere in the clause.
- (4) (kya) anu=ne (kya) uma=ko (kya) kitab KYA A.F=Erg KYA U.F=Dat KYA book.F.Sg.Nom (%kya) d-i (kya)? KYA give-Perf.F.Sg KYA 'Did Anu give a/the book to Uma?

The immediately preverbal position is dispreferred for polar *kya*:

The preverbal position is the default position for *wh-kya*.

# The distribution of (polar-)kya II



- Bhatt&Dayal establish that polar *kya* is NOT a question marker.
  - It is optional in matrix clauses.
  - kya + L-L% = \*
  - Generally disallowed in embedded clauses (complements of "rogative" predicates are an exception).

A first approximation to the meaning difference between PolQs and kya-questions

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### The meaning of *kya*-questions

- Descriptively, it appears to partition a clause into given vs. new (see Bhatt and Dayal 2014).
  - Material to the left of polar *kya* is taken as given and not available for being questioned (Bhatt and Dayal 2014).
- (5) A: **dnu=ne kya** uma=ko tofa
  Anu.F=Erg KYA Uma.F=Dat present.M.Sg.Nom
  di-ya?
  give-Perf.M.Sg
  'Did Anu give a/the present to Uma?'

```
B:#nahi, asım=ne di-ya
no Asim.M=Erg give-Perf.M.Sg
'No, Asim did.'
```

## Additional Evidence — Plunged into Confusion

- We set out to adduce more evidence for this very intuitive analysis via experimental evidence from:
  - prosodic analysis
  - corpora (Bollywood Scripts, WhatsApp Chats)
- But the data confused the picture rather than supported it.
  - The given vs. new partition does not always hold.
  - Polar *kya* is overwhelmingly (but not exclusively) associated with some kind of special pragmatic meaning.

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# Pragmatic dimensions of polar kya



### Surprise/incredulity...

(6) **kya** ye sac hai?

KYA this true be.Pres.3Sg

'Could this be true?'

Socha Na Tha

(7) acc<sup>h</sup>-i nahi lag-i **kya**? good-F.Sg. not attach-Perf.F.Sg KYA 'You didn't like her?'

WhatsApp

Questions with *kya* are often used when the speaker wants to convey **surprise/incredulity** that something is the case.

#### Sarcasm

(8) Context: A is telling B how to behave in a situation. B says (with sarcasm):

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B: (kya) tum (?kya) meri ammã ho (kya)? KYA you KYA my mother.F.Sg be.Pres kya 'Are you my mother?'

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## Surprise I + kya V

(9) a. tom **kya** jan-ti nghĩ ho you.Fam.Nom KYA know-Impf.F.Sg not be.Pres.2.Sg  $b^{h}ai=ko?$  brother.M.Sg=Acc 'You don't even recognize your own brother?'

Ankhon Dekhi

b. tum bhai=ko kya jan-ti nahi you.Fam.Nom brother.M.Sg=Acc kya know-Impf.F.Sg not ho ?
be.Pres.2.Sg
'You don't even recognize your own brother?'

## Surprise II

- (10) A: When John came to visit, he brought a toy for Amra.
  - B: jon=ne amra=ko kya khilona John=Erg Amra=Dat KYA toy.M.Sg.Nom di-ya ? (magar) wo 17=ki hai give-Perf.M.Sg (but) she 17 is 'John gave a toy to Amra?! She is 17!'

#### non-serious invitations



# Working Towards Becoming Unconfused

In the following, we adduce new data and

2 propose a new analysis of polar kya.

without and with kya

context of utterance.

(11) A doesn't feel like offering coffee to their visitor and wishes s/he declines the offer. If the speaker is not afraid of this coming across, s/he wouldn't utter the kya-question:

A: (kya) ap coffee lẽ-ge? KYA you. Hon coffee. F. Sg take-Fut 'Will you have coffee?'

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1 differentiate between the pragmatic import of polar questions

The analysis sees polar kya as a focus sensitive operator which

operates to constrain the set of possible answers viable in the

## Polar Questions: with and without kya

### Wanting to ask for something specific

(12) Me: I know that John gave something to Amra . . . Eng. ✓... Did John give a toy to Amra?

Plain √... jon=ne amra=ko k<sup>h</sup>ılona di-va? John=Erg Amra=Dat toy.M.Sg.Nom give-Perf.M.Sg 'Did John give a toy to Amra?'

kya √... jon=ne amra=ko kya k<sup>h</sup>ilona John=Erg Amra=Dat kya toy.M.Sg.Nom give-Perf.M.Sg 'Did John give a toy to Amra?'

kya #...jon=ne kya amra=ko k<sup>h</sup>ılona di-va? John=Erg kya Amra=Dat toy.M.Sg.Nom give-Perf.M.Sg 'Did John give a toy to Amra?'

[Assuming 'neutral' prosody]

More data:

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Speakers' assumptions and focus sensitivity

## Polar Questions: with and without kya



- (13) Context: *I know that John gave a toy to <u>someone</u>* . . . Eng. ✓ . . . Did John give a toy to Amra?
  - Plain √... jon=ne amra=ko k<sup>h</sup>ılona di-ya? John=Erg Amra=Dat toy.M.Sg.Nom give-Perf.M.Sg 'Did John give a toy to Amra?'
  - kya #... jon=ne amra=ko **kya** k<sup>h</sup>ılona di-ya?

    John=Erg Amra=Dat kya toy.M.Sg.Nom give-Perf.M.Sg
    'Did John give a toy to Amra?'
  - kya √... jon=ne **kya** amra=ko k<sup>h</sup>ılona di-ya? John=Erg KYA Amra=Dat toy.M.Sg.Nom give-Perf.M.Sg 'Did John give a toy to Amra?'

The contrast between (12) and (13) shows that kya-Qs are not just like plain polar questions:

- kya-Qs impose restrictions on what the question is about.
  - It seems that we ask about the material immediately right to *kya*.

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## Speaker's assumptions — English Baseline

### Confirmation from contrast in interpretations

Context: A group of teachers is putting together the costumes for the kids' end of the year play. There is a list of things that each kid needs and it's not clear who is going to be able to bring what for each kid or if they are going to be able to find everything.

(14) A: Did John bring a hat for Amra?B: #Why are you asking about a hat and not about Amra?B':#Why are you asking about Amra and not about a hat?

# Speaker's assumptions — Urdu Plain Polar

Context: A group of teachers is putting together the costumes for the kids' end of the year play. There is a list of things that each kid needs and it's not clear who is going to be able to bring what for each kid or if they are going to be able to find everything.

- (15) A: jon amra=ke liye topi la-ya?

  John.Nom Amra=for hat.M.Sg.Nom bring-Perf.M.Sg
  'Did John bring a hat for Amra?'
  - B: #tom topi=ke bare=mē kyū puc rah-i you.Fam.Nom hat.M.Sg=about=in why ask Prog-F.Sg ho, amra=ke bare=mē kyū nahī?
    be.Pres.2.Sg Amra=about=in why not 'Why are you asking about a hat and not about Amra?'
  - B':#tom amra=ke bare=mẽ kyũ puc rah-i you.Fam.Nom Amra=about=in why ask Prog-F.Sg ho, topi=ke bare=mẽ kyũ nahĩ? be.Pres.2.Sg hat.M.Sg=about=in why not 'Why are you asking about Amra and not about a hat?'

[Assuming 'neutral' prosody]



### Speaker's assumptions — Urdu Polar kya

Context: A group of teachers is putting together the costumes for the kids' end of the year play. There is a list of things that each kid needs and it's not clear who is going to be able to bring what for each kid or if they are going to be able to find everything.

- (16) A: jon amra=ke liye **kya ṭopi** la-ya?

  John.Nom Amra=for KYA hat.M.Sg.Nom bring-Perf.M.Sg
  'Did John bring a hat for Amra?'
  - B: √tum topi=ke bare=mē kyũ puc rah-i ho,
    you.Fam.Nom hat.M.Sg=about=in why ask Prog-F.Sg be.Pres.2.Sg
    amra=ke bare=mē kyũ nahĩ?
    Amra=about=in why not
    'Why are you asking about a hat and not about Amra?'
  - B': #tom amra=ke bare=mē kyū puc rah-i ho, you.Fam.Nom Amra=about=in why ask Prog-F.Sg be.Pres.2.Sg topi=ke bare=mē kyū nahi? hat.M.Sg=about=in why not 'Why are you asking about Amra and not about a hat?'

## Interim Summary:

- kya-questions are not plain polar questions
  - *kya*-questions have a more constrained distribution than plain-info-seeking polar questions
  - they constrain 'what the question is about'.
- *kya*-questions convey some assumptions regarding the answers that plain-info-seeking polar questions do not convey.

### Speaker's assumptions — Urdu Polar kya

Context: A group of teachers is putting together the costumes for the kids' end of the year play. There is a list of things that each kid needs and it's not clear who is going to be able to bring what for each kid or if they are going to be able to find everything.

```
(17) A: jon kya amra=ke liye topi la-ya?
John.Nom kya Amra=for hat.M.Sg.Nom bring-Perf.M.Sg
'Did John bring a hat for Amra?'
```

```
B: #tum topi=ke bare=mē kyū puc rah-i ho, you.Fam.Nom hat.M.Sg=about=in why ask Prog-F.Sg be.Pres.2.Sg amra=ke bare=mē kyū nahí?
Amra=about=in why not
'Why are you asking about a hat and not about Amra?'
```

```
B': √tom amra=ke bare=mẽ kyũ puc rah-i ho,
you.Fam.Nom Amra=about=in why ask Prog-F.Sg be.Pres.2.Sg
topi=ke bare=mẽ kyũ nahĩ?
hat.M.Sg=about=in why not
'Why are you asking about Amra and not about a hat?'
```

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### Association with Focus

We see polar kya as a focus sensitive operator.

- *kya*-questions are interpreted by default as asking for alternatives to the closest constituent in its scope.
- This scope can be determined:
  - either syntactically via word order
  - or prosodically
- Recall this data, showing syntactic scope:
- (5) A. anu=ne kya uma=ko tofa
  Anu.F=Erg kya Uma.F=Dat present.M.Sg.Nom
  di-ya?
  give-Perf.M.Sg
  'Did Anu give a/the present to Uma?'
  - B. #nahi, asım=ne di-ya no Asim.M=Erg give-Perf.M.Sg 'No, Asim did.'





■ When the constituent to the left of polar kya is stressed, it can be guestioned.

- We propose that polar kya associates with material to its right by default via syntactic scope.
- But that this can be overridden via prosodic focus marking.
- $\rightarrow$  Polar kya is focus-sensitive and associates with focused material.

An analysis of polar-kya

## Polar kya as a Focus Sensitive Operator

#### Distribution of kya and interpretations:

- Syntactic position: the default is to interpret these utterances as asking about the constituent in its immediate scope.
- Prosody: prosodic focus marking overrides syntactic encoding - polar kya associates with the prosodically focused element.
- $\rightarrow$  Polar kya is focus-sensitive and associates with focused material.

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## An analysis of polar-kya

Polar questions (based on Biezma and Rawlins 2012)

a. 
$$\llbracket \alpha \rrbracket^c \subseteq \mathsf{QUD}(\mathsf{M}_{?\alpha})$$

b. 
$$| [\![ \alpha ]\!]^c \cup \mathsf{QUD}(\mathsf{M}_{?\alpha}) | > 1$$

### Polar *kya*-questions

(20) 
$$\begin{bmatrix} \begin{bmatrix} Q \end{bmatrix} & kya & m_F \end{bmatrix} \end{bmatrix}^c = \begin{bmatrix} \begin{bmatrix} m \end{bmatrix} \end{bmatrix}^c$$
 defined only if

a. 
$$\llbracket [\_m \_\_] \rrbracket^c \subseteq \mathsf{QUD}(\mathsf{M}_{\mathit{kya}})$$

b. 
$$| \llbracket \llbracket \_m \_ \rrbracket \rrbracket^c \cup \mathsf{QUD}(\mathsf{M}_{kya}) | > 1$$
  
c.  $\mathsf{QUD}(\mathsf{M}_{kya}) \subseteq \llbracket \llbracket \_m_{\mathsf{F}} \_ \rrbracket \rrbracket^f$ 

c. 
$$\mathsf{QUD}(\mathsf{M}_{kya}) \subseteq \llbracket \llbracket \_m_{\mathbf{F}} \_\_ \rrbracket \rrbracket$$

- Polar-kya is a focus sensitive question operator.
- It constrains the alternatives that the speaker is entertaining.

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# An example



(21) John gave kya [a toy]<sub>F</sub> to Amra? [John gave kya [a toy]<sub>F</sub> to Amra?]<sup>c</sup>= [John gave a toy to Amra]<sup>c</sup>= {John gave a toy to Amra}

defined only if

- a. {John gave a toy to Amra}  $\subseteq QUD(M_{kya})$
- b.  $|\{\mathsf{John}\ \mathsf{gave}\ \mathsf{a}\ \mathsf{toy}\ \mathsf{to}\ \mathsf{Amra}\} \cup \mathsf{QUD}(\mathsf{M}_{\mathit{kya}})| > 1$

c.  $\mathsf{QUD}(\mathsf{M}_{kya}) \subseteq \begin{cases} \mathsf{John} \ \mathsf{gave} \ \mathsf{a} \ \mathsf{toy} \ \mathsf{to} \ \mathsf{Amra}; \\ \mathsf{John} \ \mathsf{gave} \ \mathsf{a} \ \mathsf{book} \ \mathsf{to} \ \mathsf{Amra}; \\ \mathsf{John} \ \mathsf{gave} \ \mathsf{a} \ \mathsf{game} \ \mathsf{to} \ \mathsf{Amra}; \\ \ldots \\ \simeq \mathsf{What} \ \mathsf{did} \ \mathsf{John} \ \mathsf{give} \ \mathsf{to} \ \mathsf{Amra}? \end{cases}$ 

Further Predictions — The Answer "Nothing"

- The 'topic' / QUD has to be regarding what John gave to Amra in (22).
  - (22) jon=ne amra=ko **kya k**<sup>h</sup>ilona di-ya?

    John=Erg Amra=Dat kya toy.M.Sg.Nom give-Perf.M.Sg
    'Did John give a toy to Amra?'
- The QUD conventionally enforced with a polar *kya*-quesion entails that John gave something to Amra in (22).

Given the constraints (conventionally) imposed by polar *kya*-questions on the QUD, we rule out the possibility of having 'John didn't give anything to Amra' as an answer to (22).

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## Testing the Prediction

Context: Maybe John gave a toy to Amra, but I don't think John gave anything to Amra, because he is such a scrooge.

Me: I guess John didn't bring anything to Amra this time either...

- a. √jon=ne amra=ko k<sup>h</sup>ilona di-ya? John=Erg Amra=Dat toy.M.Sg.Nom give-Perf.M.Sg 'Did John give a toy to Amra?'
- b. #jon=ne amra=ko **kya k**<sup>h</sup>ilona di-ya?

  John=Erg Amra=Dat KYA toy.M.Sg.Nom give-Perf.M.Sg
  'Did John give a toy to Amra?'

A regular-polar question can be uttered when the speaker thinks that John did not give anything to Amra is a possible answer:

- Regular polar-questions allow some flexibility on what the other answers in the QUD are (see also Abusch 2009 for possible answers to wh-questions).
- Polar *kya* questions do not.

# Surprise I (and felicitous S O kya V)

(10) A: When John came to visit, he brought a toy for Amra.

B: jon=ne amra=ko kya khilona di-ya
John=Erg Amra=Dat kya toy.M.Sg.Nom give-Perf.M.Sg
(magar) wo 17=ki hai
(but) she 17 is
'John gave a toy to Amra?! She is 17!'

In a scenario in which the speaker has no reasons to not accept A's claim, the speaker can still use a *kya*-question to indicate that part of the information is harder to accept given their state of knowledge about the world by questioning only the starting part.

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### non-serious invitations



(11) A doesn't feel like offering coffee to their visitor and wishes s/he declines the offer. If the speaker is not afraid of this coming across, s/he wouldn't utter the *kya*-question:

A: (kya) ap (kya) coffee lễ-ge? KYA you.Hon KYA coffee.F.Sg take-Fut 'Will you have coffee?'

The kya-question excludes nothing.

## Surprise, incredulity...

(6) kya ye sac hai?

KYA this true be.Pres.3Sg

'Could this be true?'

Socha Na Tha

(7) acch-i nahi lag-i **kya**? good-F.Sg. not attach-Perf.F.Sg KYA 'You didn't like her?'

WhatsApp

kya can associate with the entire proposition.

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### Sarcasm

- (8) Context: A is telling B how to behave in a situation. B says (with sarcasm):
  - B: (kya) tum (?kya) meri ammã ho (kya)? KYA you KYA my mother.F.Sg be.Pres kya 'Are you my mother?'

kya can associate with the entire proposition.

## Discussion and Summary

- Our Proposal:
  - Polar *kya* is a focus sensitive operator.
  - It adds conventional constraints on the QUD as to the alternatives the speaker is entertaining.
- Related Work
  - Bhatt and Dayal (2014) invoke given vs. new in their analysis. and see the polar *kya* as a particle interacting with topicalization.
  - Syed and Dash (2017) compares similar phenomena (kya-particles) across Hindi, Bangla and Oṛiya and also see polar *kya* related to focus.
    - Both approaches treat polar *kya* on a par with plain polar questions not aware of the extra constraints signaled about the speaker's assumptions.
    - Neither proposal factors in the interaction with prosodic marking.

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## Acknowledgements



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### Nothing

(23) John=ne Amra=ko kuch nhe di.ja John=Erg. Amra=Acc something not give.Perf.M. 'John didn't give anything to Amra.'

# The distribution of polar kya (Bhatt and Dayal 2017)

### Not possible with wh-questions

(24)\*kya anu=ne uma=ko kya diyaa? KYA Anu=Erg Uma=Acc what give.Pfv Intended: 'What did Anu give to Uma?'

(25)\*kya kis=ne uma=ko kitaab dii? KYA who=Erg Uma=Dat book.F give.Pfv.F Intended: 'Who gave Uma a/the book?'



### Declarative responsives cannot embed polar-kya:1

(26)\*Anu jaan-tii hai [ki kya tum cai Anu.F know.Hab.F be.Pres.Sg that KYA you tea piyoge drink.Fut.2MPl

Intended: 'Anu knows whether you will drink tea.'

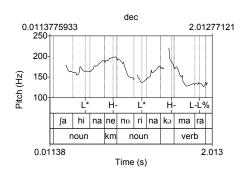
(27) a. ti:car=ne Anu=se puuch-aa [ki kya vo caai teacher=Erg Anu-from ask-Pfv that KYA s/he tea piyegii] drink.Fut.3FSg

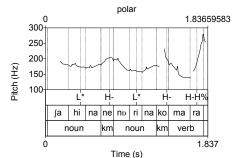
'The teacher asked Anu whether she would drink tea.'

b. anu jaan-naa caah-tii hai [ki kya tum Anu.F know-Inf want.Hab.F be.Prs.Sg that KYA you cai piyoge]
tea drink.Fut.2MPl
'Anu wants to know whether you will drink tea.'

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# Declarative vs. Polar Question Intonation









## Alternative questions and kya

- kya p OR kya q (difficult)
- kya p OR q (natural)
- p OR *kya* q
- p OR q (most natural)

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### Default Position for Wh-Constituent

- Féry et al. (2016) conducted a comparative study of Hindi and Indian English.
- They asked questions like:
  - *In front of the well, who is pushing the car?* (Questioning the Subject)
  - *In front of the well, what is the man pushing?* (Questioning the Object)
- They found the following word orders in the responses.

	SOV	OSV
Subject Questioned (n=28)	6	22
Object Questioned (n=26)	26	_

- Further corroborated by a web-based acceptability judgement test (Jabeen 2017).
- ⇒ Default information focus position is immediately preverbal.

<sup>&</sup>lt;sup>1</sup>Responsive predicates are predicates that can embed either declarative or interrogative complements, e.g. *know* in English.

# Function of polar kya



### We designed a questionnaire

- acceptability judgments
- testing various position of polar *kya* in the clause (kya) NP (kya) NP (kya) V (kya)?
- With various types of SOV answers with contrasting
  - Subject
  - Object
  - Verb
  - Subject + object
  - Subject + object + verb

### Watershed Questionnaire

# **Questionnaire Results**

✓ = most acceptable

x = least acceptable

Contrast	Initial	Medial	Preverbal	Final
Subject	1	1	x.	1
Object	1	1	1	1
Verb	x	1	x	x
Sub + Obj	x	x	x	x
Sub + Obj +V	x	x	x	/

#### Results are very mixed:

- kya in initial position: subject and object individually open to questioning
- *kya* in medial position: all the constituents may individually be questioned.
- Preverbal position: not really possible. Reserved for wh-questions
- Final: the whole proposition may be questioned.

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