Indexicals: Direct Reference or Presupposition?

Rob's Festshop

Emar
www.ru.nl/phil/tfl/~emar

May 23, 2006

Outline

1. From Frege/Russell to Kripke/Kaplan
   - Proper names and indexicals
   - Wide scope
   - The KK argument
2. Neo-Descriptivism
   - Referential terms as vdSandtian presuppositions
   - Non-rigid proper names and indexicals
   - Applying KK
3. Combining rigidity and presupposition
   - Rigidity and DRT?
   - LDRT2
   - Presupposition in LDRT2

Outline

1. From Frege/Russell to Kripke/Kaplan
   - Proper names and indexicals
   - Wide scope
   - The KK argument
2. Neo-Descriptivism
   - Referential terms as vdSandtian presuppositions
   - Non-rigid proper names and indexicals
   - Applying KK
3. Combining rigidity and presupposition
   - Rigidity and DRT?
   - LDRT2
   - Presupposition in LDRT2

Descriptivism vs. Referentialism

- Frege/Russell: meaning = description
  - $[\![\mathrm{Rob}]\!] \approx$ the person called Rob
  - $[\![\mathrm{I}]\!] \approx$ the current speaker
- Kripke/Kaplan: meaning = reference
  - $[\![\mathrm{Rob}]\!] \approx$
  - $[\![\mathrm{I}]\!] \approx$

Descriptivism vs. Referentialism

- Frege/Russell: meaning = description
  - $[\![\text{Rob}]\!] \approx$ the person called Rob
  - $[\![\text{I}]\!] \approx$ the current speaker
- Kripke/Kaplan: meaning = reference
  - $[\![\text{Rob}]\!] \approx$
  - $[\![\text{I}]\!]^c \approx$

Descriptivism vs. Referentialism

- Frege/Russell: meaning = description
  - $[\![\text{Rob}]\!] \approx$ the person called Rob
  - $[\![\text{I}]\!] \approx$ the current speaker
- Kripke/Kaplan: meaning = reference
  - $[\![\text{Rob}]\!] \approx$
  - $[\![\text{I}]\!]^c \approx$

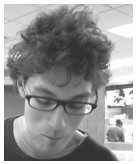
Descriptivism vs. Referentialism

- Frege/Russell: meaning = description
  - $[\![\mathrm{Rob}]\!] \approx$ the person called Rob
  - $[\![\mathrm{I}]\!] \approx$ the current speaker
- Kripke/Kaplan: meaning = reference
  - $[\![\mathrm{Rob}]\!] \approx$
  - $[\![\mathrm{I}]\!]^c \approx$

Descriptivism vs. Referentialism

- Frege/Russell: meaning = description
  - $[\![\mathrm{Rob}]\!] \approx$ the person called Rob
  - $[\![\mathrm{I}]\!] \approx$ the current speaker
- Kripke/Kaplan: meaning = reference
  - $[\![\mathrm{Rob}]\!] \approx$
  - $[\![\mathrm{I}]\!]^c \approx$ the speaker of $c \approx$

Descriptivism vs. Referentialism

- Frege/Russell: meaning = description
  - $[\![\mathrm{Rob}]\!] \approx$ the person called Rob
  - $[\![\mathrm{I}]\!] \approx$ the current speaker
- Kripke/Kaplan: meaning = reference
  - $[\![\mathrm{Rob}]\!] \approx$
  - $[\![\mathrm{I}]\!]^c \approx$ the speaker of $c \approx$ 

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] =$

$=$

- Referentialist: $[\![(1)]\!]^c =$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$

$=$

- Referentialist: $[\![(1)]\!]^c =$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$
  $= \Diamond$[silent(the speaker)]
- Referentialist: $[\![(1)]\!]^c =$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$
  $= \Diamond$~~[silent(the speaker)]~~
- Referentialist: $[\![(1)]\!]^c =$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$
  $= \Diamond[\text{silent(the speaker)}] \rightsquigarrow [\lambda x.\Diamond[\text{silent}(x)]](\text{the speaker})$
- Referentialist: $[\![(1)]\!]^c =$
  $= \Diamond\text{silent}()$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$
  $= \Diamond[\text{silent(the speaker)}] \rightsquigarrow [\lambda x.\Diamond[\text{silent}(x)]](\text{the speaker})$
- Referentialist: $[\![(1)]\!]^c =$

  $= \Diamond\text{silent}()$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$
  $= \Diamond$~~[silent(the speaker)]~~ $\rightsquigarrow [\lambda x.\Diamond[\text{silent}(x)]](\text{the speaker})$
- Referentialist: $[\![(1)]\!]^c = [\![\text{might}]\!]^c([\![\text{silent}]\!]^c([\![\text{I}]\!]^c)) =$
  $= \Diamond\text{silent}()$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$
  $= \Diamond\text{[silent(the speaker)]} \rightsquigarrow [\lambda x.\Diamond[\text{silent}(x)]](\text{the speaker})$
- Referentialist: $[\![(1)]\!]^c = [\![\text{might}]\!]^c([\![\text{silent}]\!]^c([\![\text{I}]\!]^c)) =$
  $= \Diamond\text{silent}(\text{the speaker of } c)$

Wide scope

(1) I might have remained silent

- Descriptivist: $[\![(1)]\!] = [\![\text{might}]\!]([\![\text{silent}]\!]([\![\text{I}]\!])) =$
  $= \Diamond\text{[silent(the speaker)]} \rightsquigarrow [\lambda x.\Diamond\text{[silent}(x)\text{]}](\text{the speaker})$
- Referentialist: $[\![(1)]\!]^c = [\![\text{might}]\!]^c([\![\text{silent}]\!]^c([\![\text{I}]\!]^c)) =$
  $= \Diamond\text{silent}($ $)$

The KK argument

(2) I am speaking

(3) The speaker is speaking

- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c =$

The KK argument

(2) I am speaking

(3) The speaker is speaking

- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c =$
  - $[\![(2)]\!]^{c,w} =$

The KK argument

(2) I am speaking

(3) The speaker is speaking

- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c =$
  - $[\![(3)]\!]^c =$

The KK argument

(2) I am speaking

(3) The speaker is speaking

- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c = [\![\text{speak}]\!]^c([\![\text{I}]\!]^c)$
  - $[\![(3)]\!]^c =$

The KK argument

(2) I am speaking

(3) The speaker is speaking

- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c = \mathsf{speak}(\mathsf{speaker}(c))$
  - $[\![(3)]\!]^c =$

The KK argument

(2) I am speaking

(3) The speaker is speaking

- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c = \text{speak}($ $)$
  - $[\![(3)]\!]^c =$

The KK argument

(2) I am speaking

(3) The speaker is speaking

- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c = \text{speak}($ $)$
  - $[\![(3)]\!]^c = [\![\text{speak}]\!]^c([\![\text{the speaker}]\!]^c)$

The KK argument

(2) I am speaking

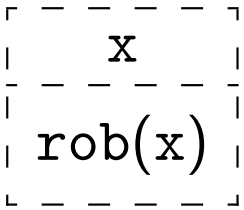
(3) The speaker is speaking

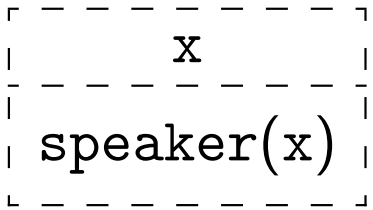
- Descriptivist: $[\![(2)]\!] = [\![(3)]\!] = W$
- Referentialist:
  - $[\![(2)]\!]^c = \text{speak}($ $)$
  - $[\![(3)]\!]^c = \text{speak}(\text{the speaker}) = W$

Outline

1. From Frege/Russell to Kripke/Kaplan
   - Proper names and indexicals
   - Wide scope
   - The KK argument
2. Neo-Descriptivism
   - Referential terms as vdSandtian presuppositions
   - Non-rigid proper names and indexicals
   - Applying KK
3. Combining rigidity and presupposition
   - Rigidity and DRT?
   - LDRT2
   - Presupposition in LDRT2

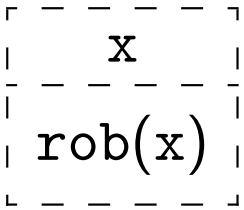
Definites as presuppositions as anaphors

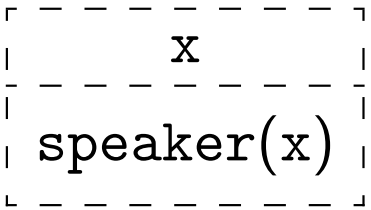
- Geurts'97: $\mathrm{Rob} \rightsquigarrow$ 

- Hunter&Asher'05: $\mathrm{I} \rightsquigarrow$ 

  - wide scope follows from general, pragmatic presupposition projection
  - unified account of all definites (pronouns, def.descr, names. . .)
  - new, testable predictions!

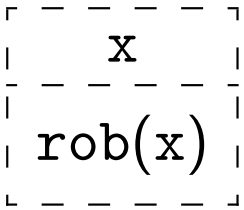
Definites as presuppositions as anaphors

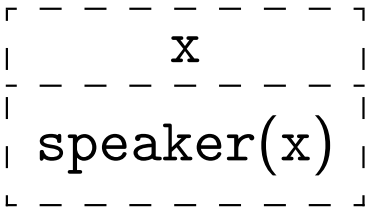
- Geurts'97: $\mathrm{Rob} \rightsquigarrow$ 

- Hunter&Asher'05: $\mathrm{I} \rightsquigarrow$ 

  - wide scope follows from general, pragmatic presupposition projection
  - unified account of all definites (pronouns, def.descr, names. . .)
  - new, testable predictions!

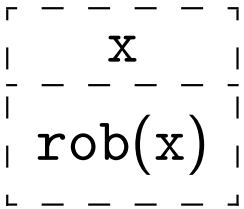
Definites as presuppositions as anaphors

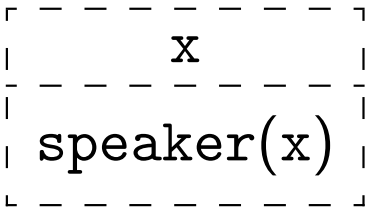
- Geurts'97: $\mathrm{Rob} \rightsquigarrow$ 

- Hunter&Asher'05: $\mathrm{I} \rightsquigarrow$ 

  - wide scope follows from general, pragmatic presupposition projection
  - unified account of all definites (pronouns, def.descr, names. . .)
  - new, testable predictions!

Definites as presuppositions as anaphors

- Geurts'97: $\mathrm{Rob} \rightsquigarrow$ 

- Hunter&Asher'05: $\mathrm{I} \rightsquigarrow$ 

  - wide scope follows from general, pragmatic presupposition projection
  - unified account of all definites (pronouns, def.descr, names. . .)
  - new, testable predictions!

Non-rigid proper names

(4) If a child is christened Bambi, and if Disney Inc. hear about it, they will sue Bambi's parents (Geurts'97)

- non-global binding

(5) If presidents were elected by alphabetical order, Aaron Aardvark might have been president (Bach'87)

- non-global accommodation

Non-rigid proper names

(4) If a child is christened Bambi, and if Disney Inc. hear about it, they will sue Bambi's parents (Geurts'97)

- non-global binding

(5) If presidents were elected by alphabetical order, Aaron Aardvark might have been president (Bach'87)

- non-global accommodation

Bound indexicals?

- Heim: feature deletion/binding under morphological agreement
- Neo-Descriptivist alternative: presupposition binding?

Bound indexicals?

(6) Only I did my homework

- Heim: feature deletion/binding under morphological agreement
  - (Only I)[$\lambda x.x$ did x's homework]
- Neo-Descriptivist alternative: presupposition binding?

Bound indexicals?

(6) Only I did my homework ($\models$ Janneke didn't do hers)

- Heim: feature deletion/binding under morphological agreement
  - (Only I)[$\lambda x.x$ did x's homework]
- Neo-Descriptivist alternative: presupposition binding?

Bound indexicals?

(6) Only I did my homework

- Heim: feature deletion/binding under morphological agreement
  - (Only I)[$\lambda x.x$ did x's homework]
- Neo-Descriptivist alternative: presupposition binding?

Bound indexicals?

(6) Only I did my homework

- Heim: feature deletion/binding under morphological agreement
  - (Only I)[$\lambda x.x$ did x's homework]
- Neo-Descriptivist alternative: presupposition binding?

Monstrously shifted indexicals

(7) Rob_i thinks that I_i am a linguist (Amharic)

- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:

Monstrously shifted indexicals

(7) Rob_i thinks that I_i am a linguist (Amharic)

- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - ${}^{m}\textsc{belief}_{\text{r}}\lambda c.\text{linguist}(\text{center}(c))$ Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:

Monstrously shifted indexicals

(7) Rob_i thinks that I_i am a linguist (Amharic)

- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - $[\![^m \text{BELIEF}_r \lambda c.\text{linguist}(\text{center}(c))]\!]_w = 1$ iff Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:

Monstrously shifted indexicals

(7) Rob_i thinks that I_i am a linguist (Amharic)

- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - $[\![^m \text{BELIEF}_\text{r} \lambda c.\text{linguist}(\text{center}(c))]\!]_w = 1$ iff Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:

Monstrously shifted indexicals

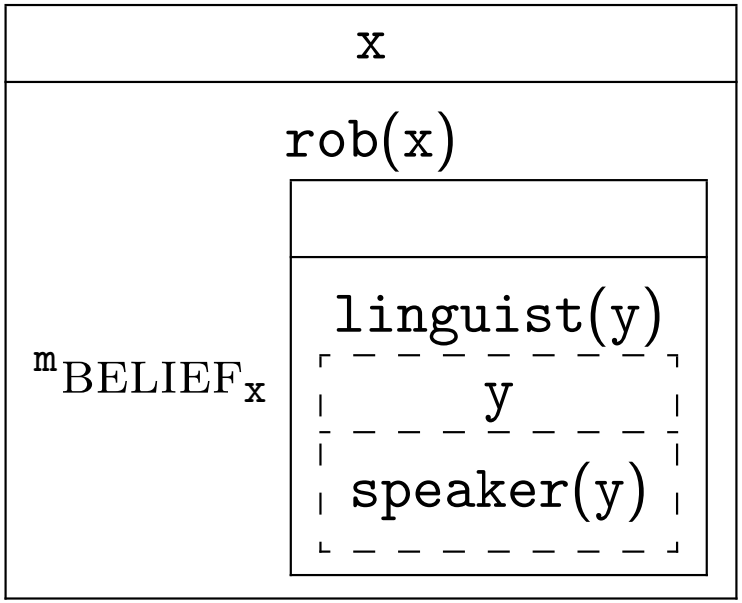
(7) Rob_i thinks that I_i am a linguist (Amharic)

- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - $[\![^m \text{BELIEF}_r \lambda c.\text{linguist}(\text{center}(c))]\!]_w = 1$ iff Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:

Monstrously shifted indexicals

(7) Rob_i thinks that I_i am a linguist (Amharic)

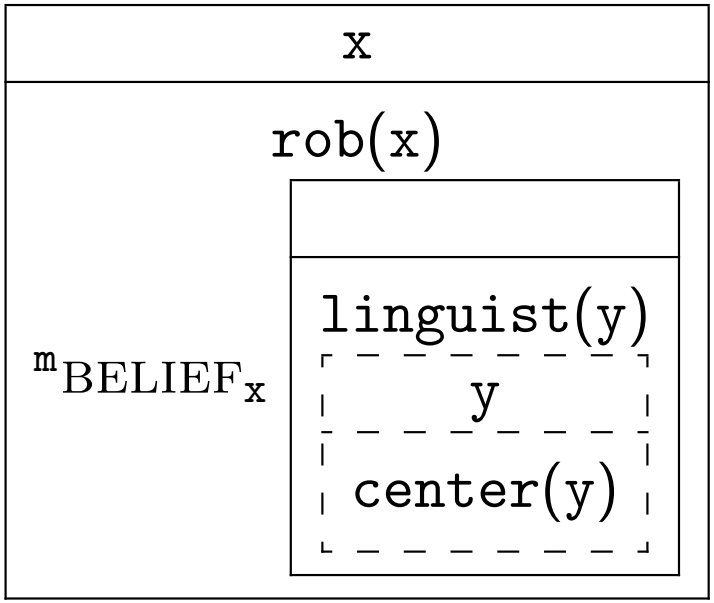
- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - $[\![^{m}\text{BELIEF}_{r}\lambda c.\text{linguist}(\text{center}(c))]\!]_{w} = 1$ iff Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:



Monstrously shifted indexicals

(7) Rob_i thinks that I_i am a linguist (Amharic)

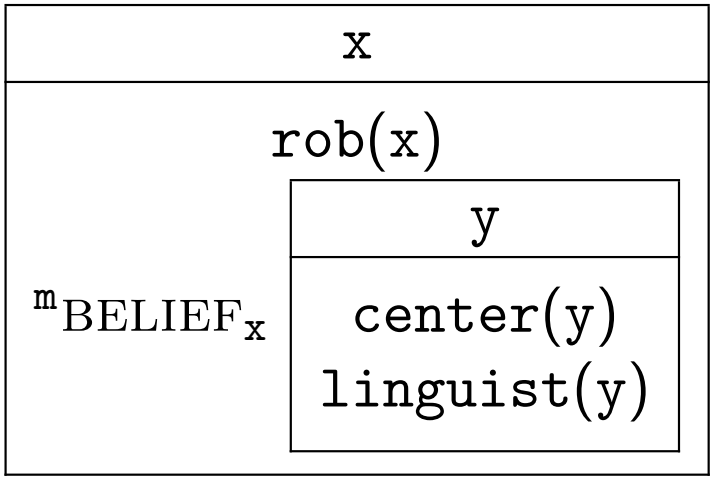
- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - $[\![^{m}\text{BELIEF}_{r}\lambda c.\text{linguist}(\text{center}(c))]\!]_{w} = 1$ iff Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:



Monstrously shifted indexicals

(7) Rob_i thinks that I_i am a linguist (Amharic)

- instead of referring directly, Amharic I can be bound by an attitude context
- Schlenker, von Stechow,. . . :
  - $[\![^{m}\text{BELIEF}_{r}\lambda c.\text{linguist}(\text{center}(c))]\!]_{w} = 1$ iff Rob believes to inhabit a context whose center is a linguist
- Neo-Descriptivist:

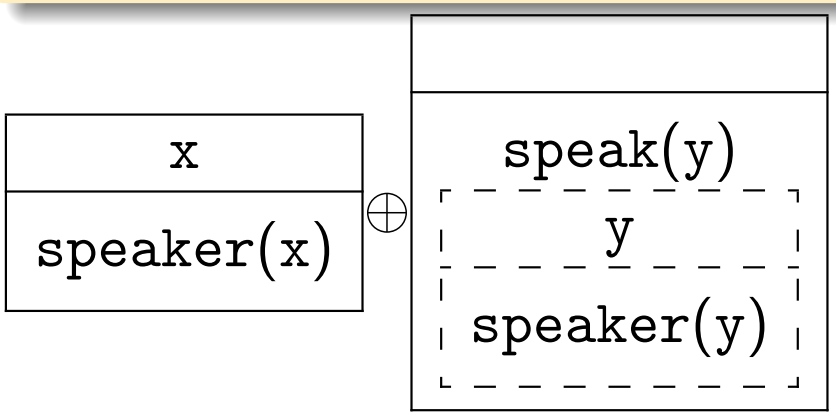


Zeevat applies the KK test

(2) I am speaking

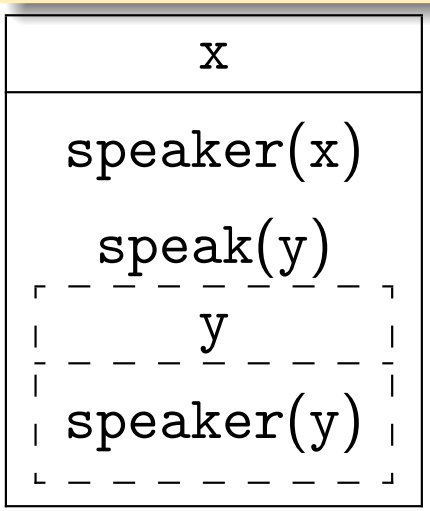
Zeevat applies the KK test

(2) I am speaking



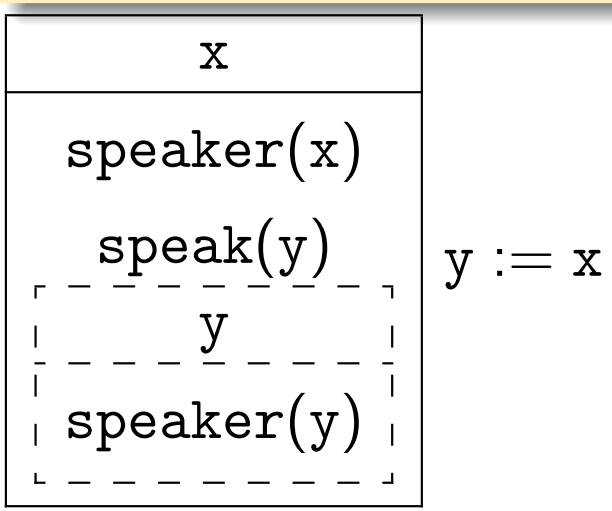
Zeevat applies the KK test

(2) I am speaking



Zeevat applies the KK test

(2) I am speaking



Zeevat applies the KK test

(2) I am speaking

x
speaker(x)
speak(x)

Zeevat applies the KK test

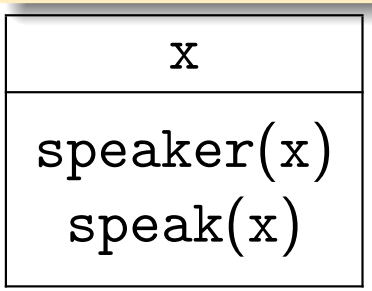
(2) I am speaking

x
speaker(x) speak(x)

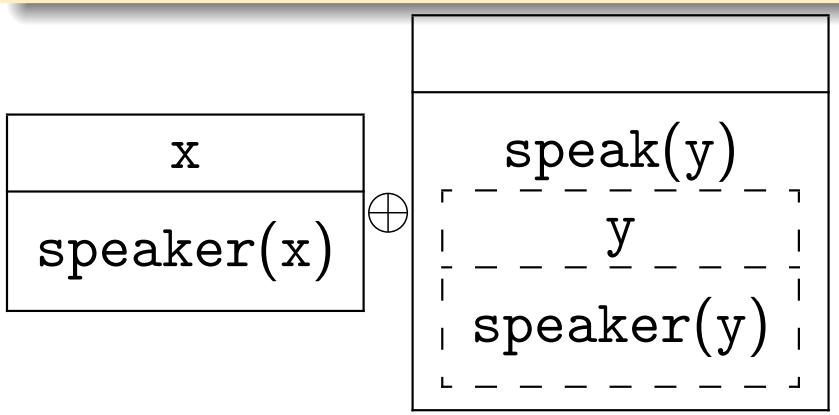
(3) The speaker is speaking

Zeevat applies the KK test

(2) I am speaking



(3) The speaker is speaking



Zeevat applies the KK test

(2) I am speaking

x
speaker(x) speak(x)

(3) The speaker is speaking

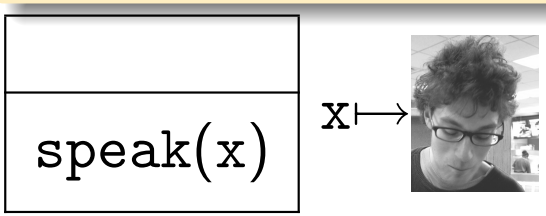
x
speaker(x) speak(x)

Outline

1. From Frege/Russell to Kripke/Kaplan
   - Proper names and indexicals
   - Wide scope
   - The KK argument
2. Neo-Descriptivism
   - Referential terms as vdSandtian presuppositions
   - Non-rigid proper names and indexicals
   - Applying KK
3. Combining rigidity and presupposition
   - Rigidity and DRT?
   - LDRT2
   - Presupposition in LDRT2

Kamp's external anchors

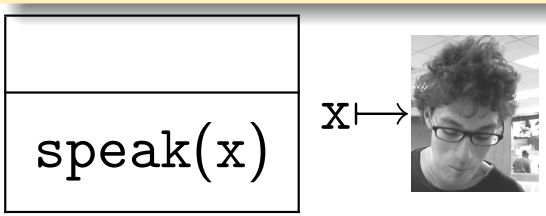
(2) I am speaking



- anchors restrict possible embeddings: rigidity guaranteed
- objections:
  - where is the 'linguistic meaning' of I ($\approx$ the speaker of the context)?
  - what is the theoretical status of anchors? (meta-language)

Kamp's external anchors

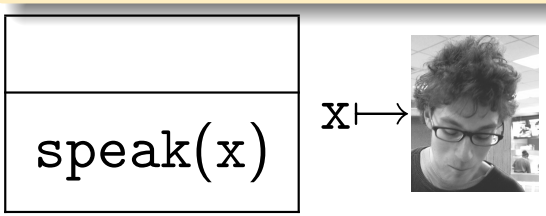
(2) I am speaking



- anchors restrict possible embeddings: rigidity guaranteed
- objections:
  - where is the 'linguistic meaning' of I (≈ the speaker of the context)?
  - what is the theoretical status of anchors? (meta-language)

Kamp's external anchors

(2) I am speaking



- anchors restrict possible embeddings: rigidity guaranteed
- objections:
  - where is the 'linguistic meaning' of I ($\approx$ the speaker of the context)?
  - what is the theoretical status of anchors? (meta-language)

Layers

- represent different types of information at separate layers, connected by discourse referents.
  - Kripke/Kaplan-layer: indexicals, names,...
  - Frege-layer: "what is said", asserted content

(2) I am speaking

x
speaker(x)
speak(x)

(3) The speaker is speaking

x
speaker(x)
speak(x)

Layers

- represent different types of information at separate layers, connected by discourse referents.
  - Kripke/Kaplan-layer: indexicals, names,...
  - Frege-layer: "what is said", asserted content

(2) I am speaking

x
speaker(x)
speak(x)

(3) The speaker is speaking

x
speaker(x)
speak(x)

Layers

- represent different types of information at separate layers, connected by discourse referents.
  - Kripke/Kaplan-layer: indexicals, names,...
  - Frege-layer: "what is said", asserted content

(2) I am speaking

x
speaker(x) speak(x)

(3) The speaker is speaking

x
speaker(x) speak(x)

Layers

- represent different types of information at separate layers, connected by discourse referents.
  - Kripke/Kaplan-layer: indexicals, names,...
  - Frege-layer: "what is said", asserted content

(2) I am speaking

x
speaker(x) speak(x)

(3) The speaker is speaking

x
speaker(x) speak(x)

Layered semantics: the basic ingredients

- all semantic notions relativized to a layer
  - iff there is an embedding g s.t.:
    - g extends f
    - g maps φ's discourse referents into the domain
    - φ's DRS conditions are verified in world w, w.r.t. g

Layered semantics: the basic ingredients

- all semantic notions relativized to a layer
  - $[\![\varphi]\!]^f_w = 1$ iff there is an embedding g s.t.:
    - g extends f
    - g maps φ's discourse referents into the domain
    - φ's blue DRS conditions are verified in world w, w.r.t. g

Layered semantics: the basic ingredients

- all semantic notions relativized to a layer
  - $[\![\varphi]\!]^f_w = 1$ iff there is an embedding g s.t.:
    - g extends f
    - g maps φ's discourse referents into the domain
    - φ's red DRS conditions are verified in world w, w.r.t. g

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, $f :=$ its minimal truthful embedding
  - evaluate blue layer in world of c parameterized by f: $[\![\varphi]\!]^f_{c_w}$

(2) I am speaking

x
speaker(x)
speak(x)

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c = ??$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x)
speak(x)

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x)
speak(x)

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x)
speak(x)

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x) speak(x)

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x)
speak(x)

- f :x↦the speaker of c
- $[\![(2)]\!]^c = \{w \mid [\![(2)]\!]^f_w = 1\} = W$

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x)
speak(x)

- f :x↦the speaker of c
- $[\![(2)]\!]^c = \{w \mid [\![(2)]\!]^f_w = 1\} \neq W$

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x)
speak(x)

- f :x↦the speaker of c
- $[\![(2)]\!]^c = \{w \mid [\![(2)]\!]^f_w = 1\} \neq W$

Adding a 2nd dimension

- Kaplanian 2D models: $\mathcal{M} = \langle C, W, D, I \rangle$
- 'what is said' by φ in $c = [\![\varphi]\!]^c =$
  - evaluate red layer in c: $[\![\varphi]\!]^{\emptyset}_c$
  - if true, f := its minimal truthful embedding
  - evaluate blue layer in w with f as anchor: $[\![\varphi]\!]^f_w$
  - $[\![\varphi]\!]^c := \{w \mid [\![\varphi]\!]^f_w = 1\}$

(2) I am speaking

x
speaker(x) speak(x)

- f :x↦the speaker of c
- $[\![(2)]\!]^c = \{w \mid [\![(2)]\!]^f_w = 1\} \neq W$

Layered PrelDRS construction

- Zimmermann's Hypothesis L: "lexical items are always deictic or absolute"
  - compositionally generated PrelDRS bipartitioned into Fregean and Kripke/Kaplan layers

(2) I am speaking

(3) The speaker is speaking

Layered PreIDRS construction

- Zimmermann's Hypothesis L: "lexical items are always deictic or absolute"
  - compositionally generated PreIDRS bipartitioned into Fregean and Kripke/Kaplan layers

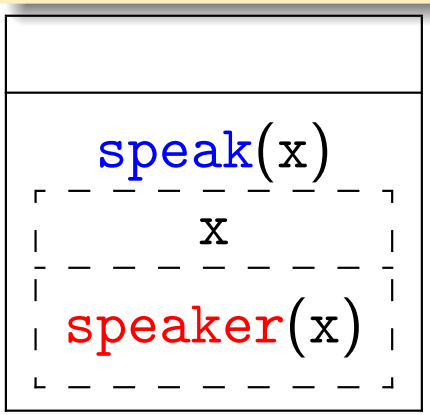
(2) I am speaking

(3) The speaker is speaking

Layered PreIDRS construction

- Zimmermann's Hypothesis L: "lexical items are always deictic or absolute"
  - compositionally generated PreIDRS bipartitioned into Fregean and Kripke/Kaplan layers

(2) I am speaking

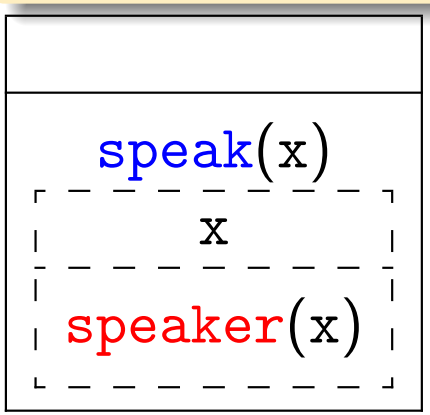


(3) The speaker is speaking

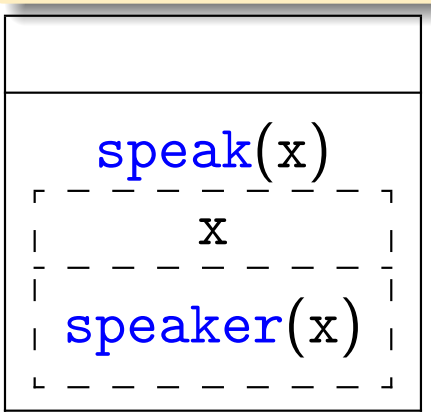
Layered PreIDRS construction

- Zimmermann's Hypothesis L: "lexical items are always deictic or absolute"
  - compositionally generated PreIDRS bipartitioned into Fregean and Kripke/Kaplan layers

(2) I am speaking



(3) The speaker is speaking



Layered Resolution

- Layer Faithfulness: resolve presuppositions in their own layer
- predictions:
  - Kaplanian wide scope over operators ✓
  - KK test ✓

Layered Resolution

- Layer Faithfulness: resolve presuppositions in their own layer
- predictions:
  - Kaplanian wide scope over operators ✓
  - KK test ✓
  - Geurtsian non-rigid names: violate Layer Faithfulness?
  - bound/shifted indexicals?

Layered Resolution

- Layer Faithfulness: resolve presuppositions in their own layer
- predictions:
  - Kaplanian wide scope over operators ✓
  - KK test ✓
  - Geurtsian non-rigid names: violate Layer Faithfulness?
  - bound/shifted indexicals?

Layered Resolution

- Layer Faithfulness: resolve presuppositions in their own layer
- predictions:
  - Kaplanian wide scope over operators ✓
  - KK test ✓
  - Geurtsian non-rigid names: violate Layer Faithfulness?
  - bound/shifted indexicals?

Layered Resolution

- Layer Faithfulness: resolve presuppositions in their own layer
- predictions:
  - Kaplanian wide scope over operators ✓
  - KK test ✓
  - Geurtsian non-rigid names: violate Layer Faithfulness?
  - bound/shifted indexicals?

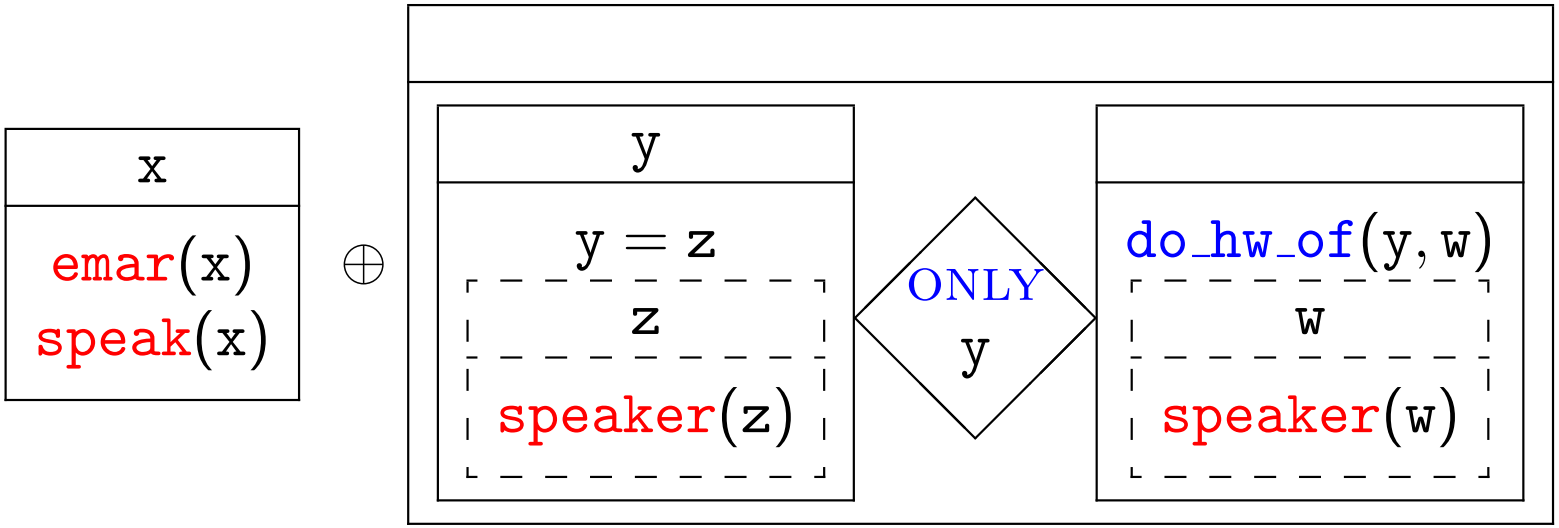
Layered Resolution

- Layer Faithfulness: resolve presuppositions in their own layer
- predictions:
  - Kaplanian wide scope over operators ✓
  - KK test ✓
  - Geurtsian non-rigid names: violate Layer Faithfulness?
  - bound/shifted indexicals?

Only I did my homework

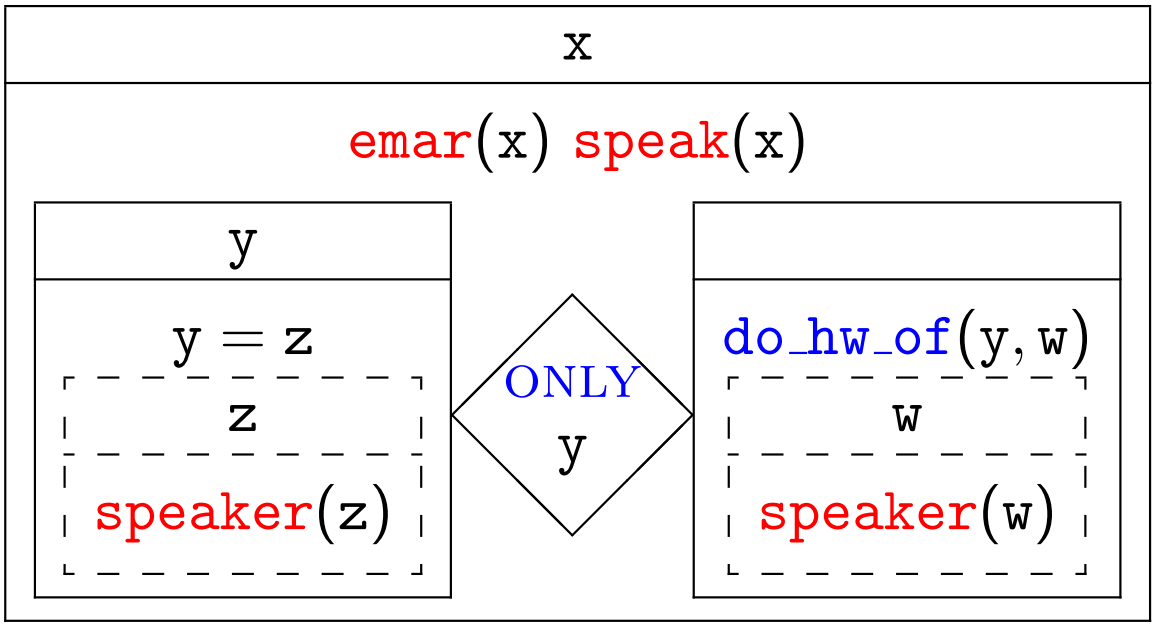
x
emar(x)
speak(x)

Only I did my homework

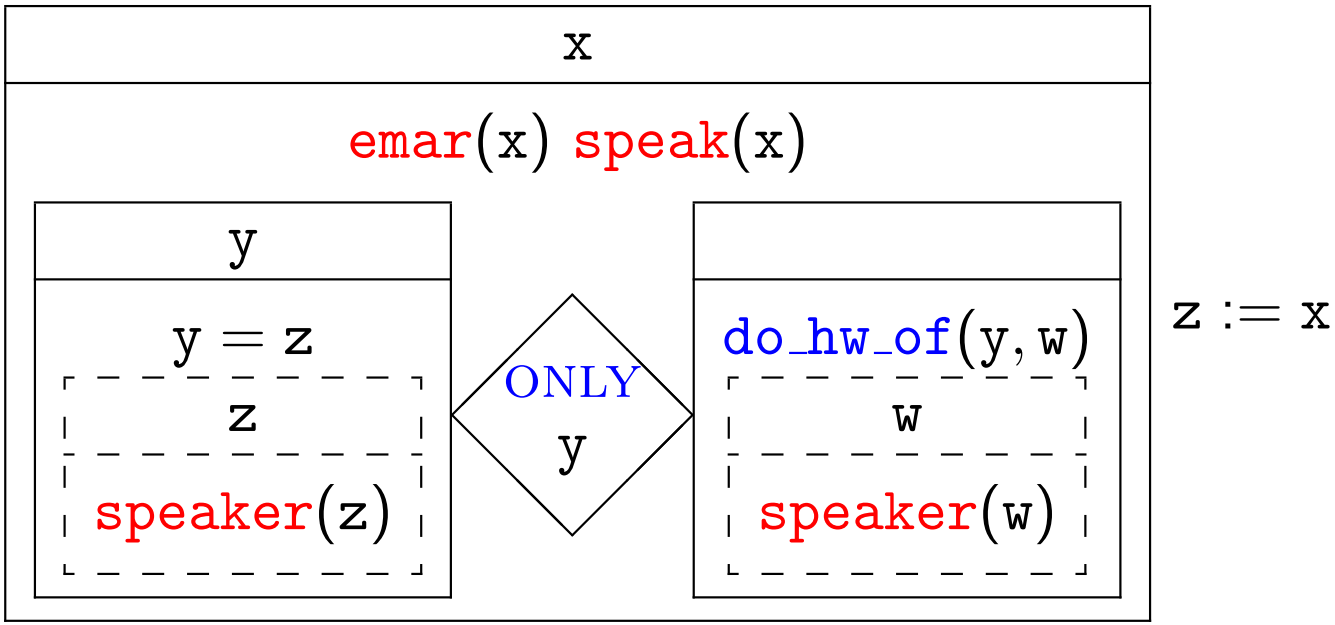


(≈ only those *y*s that are equal to *z* did *w*'s homework)

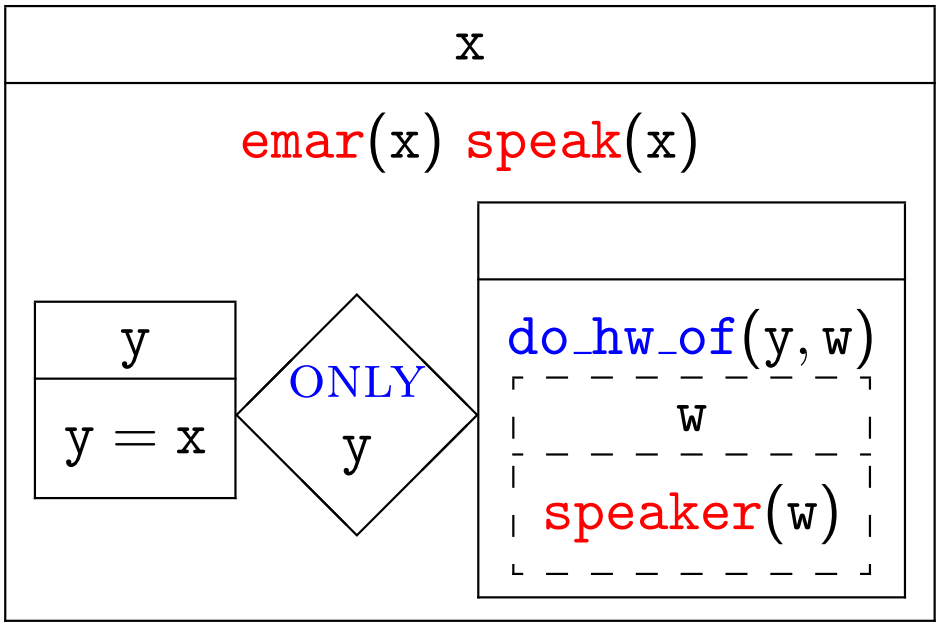
Only I did my homework



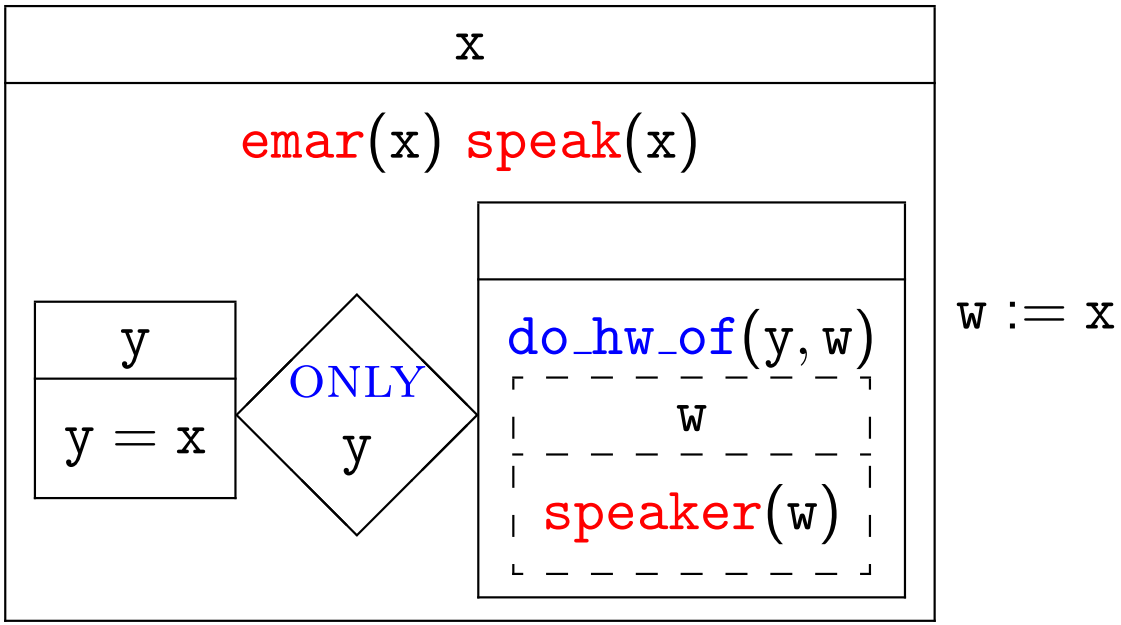
Only I did my homework



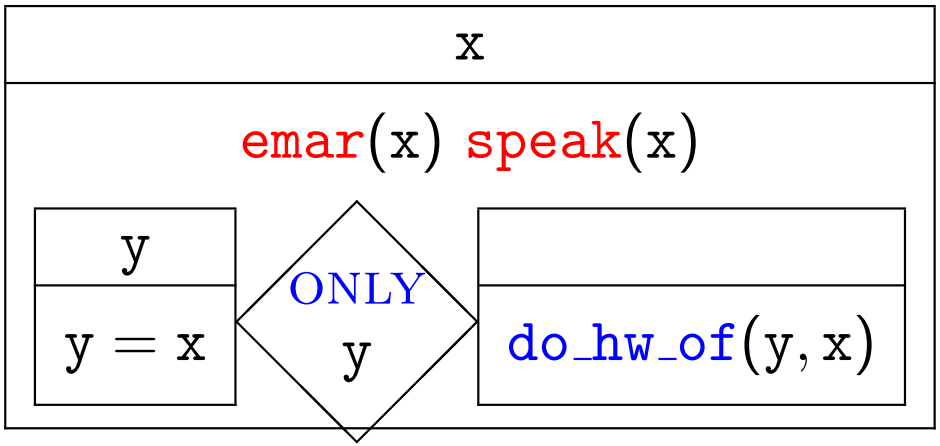
Only I did my homework



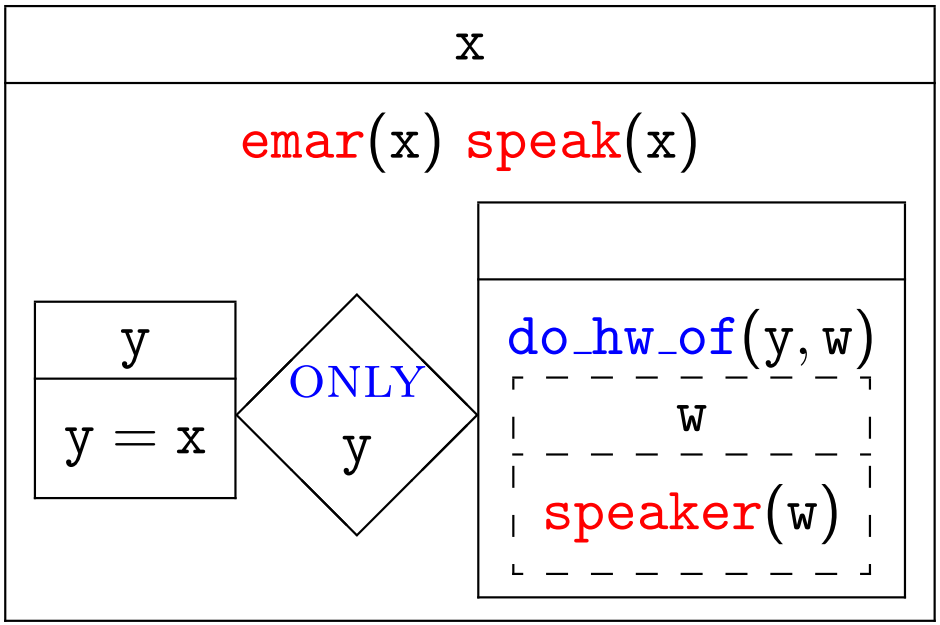
Only I did my homework



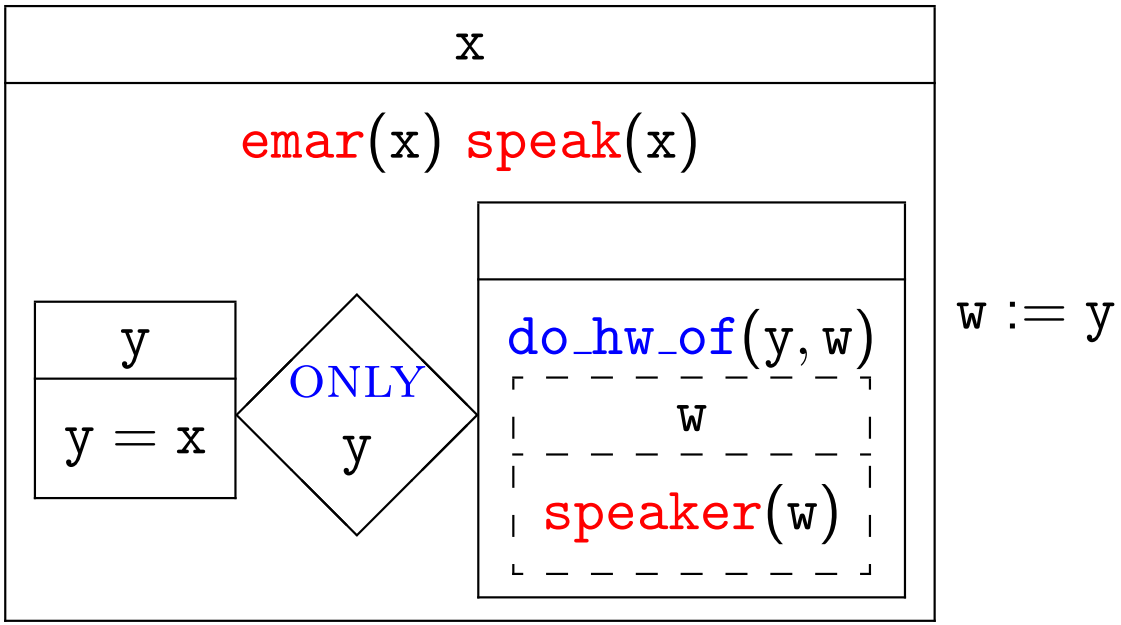
Only I did my homework



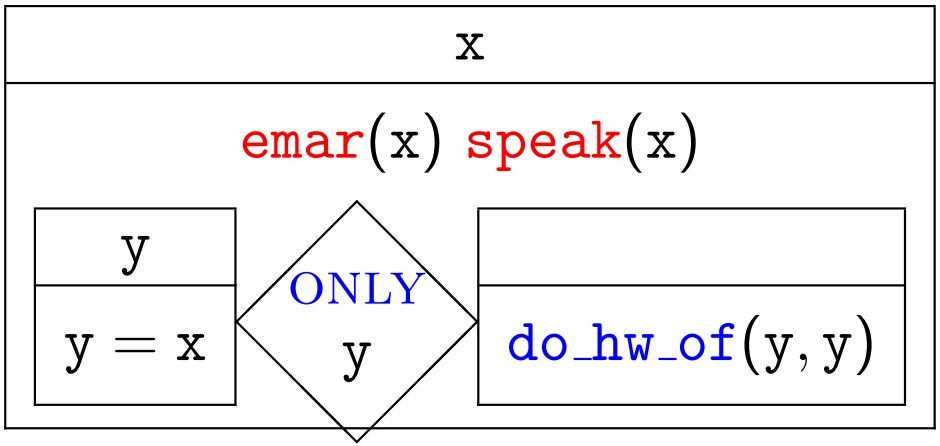
Only I did my homework



Only I did my homework



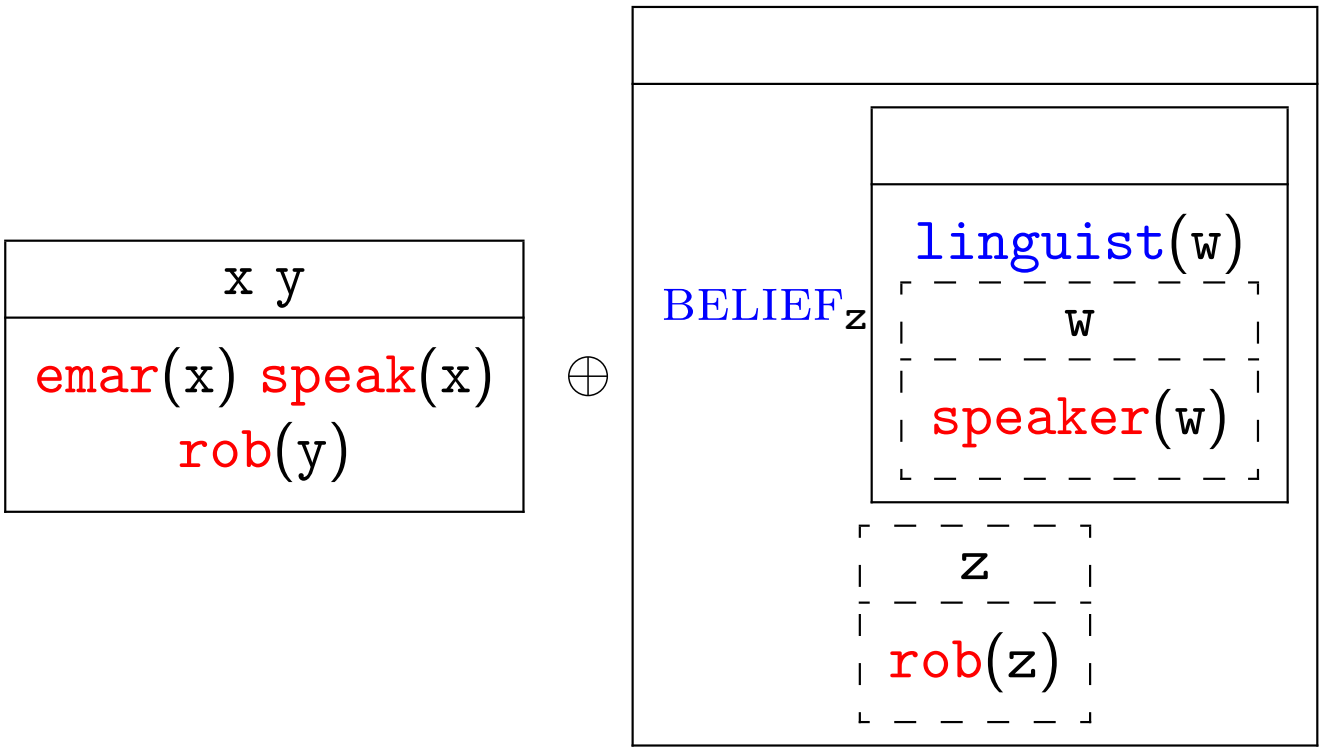
Only I did my homework



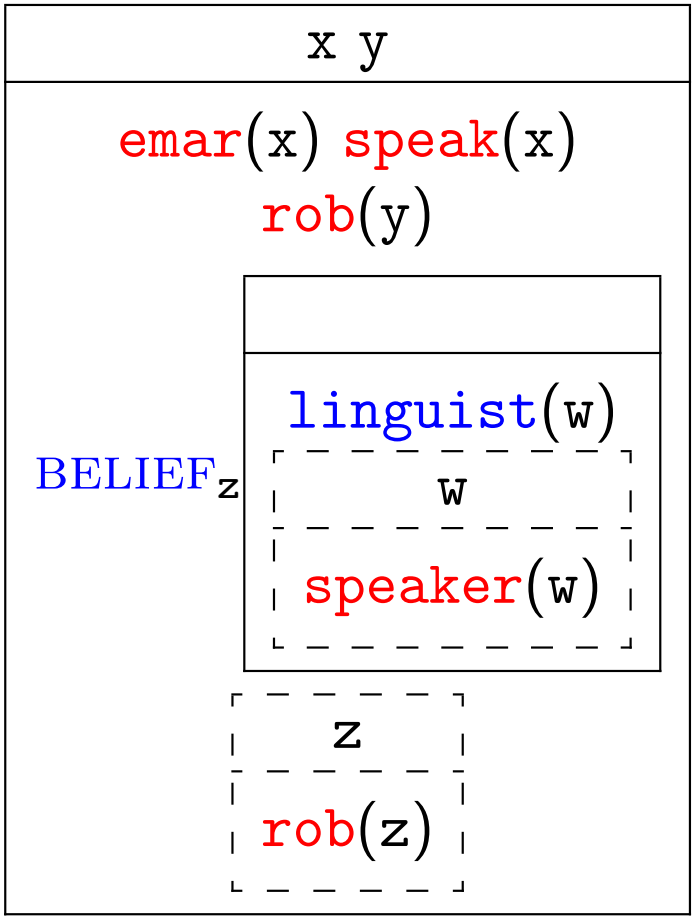
Rob$_i$ thinks that I$_i$ am a linguist

x y
emar(x) speak(x) rob(y)

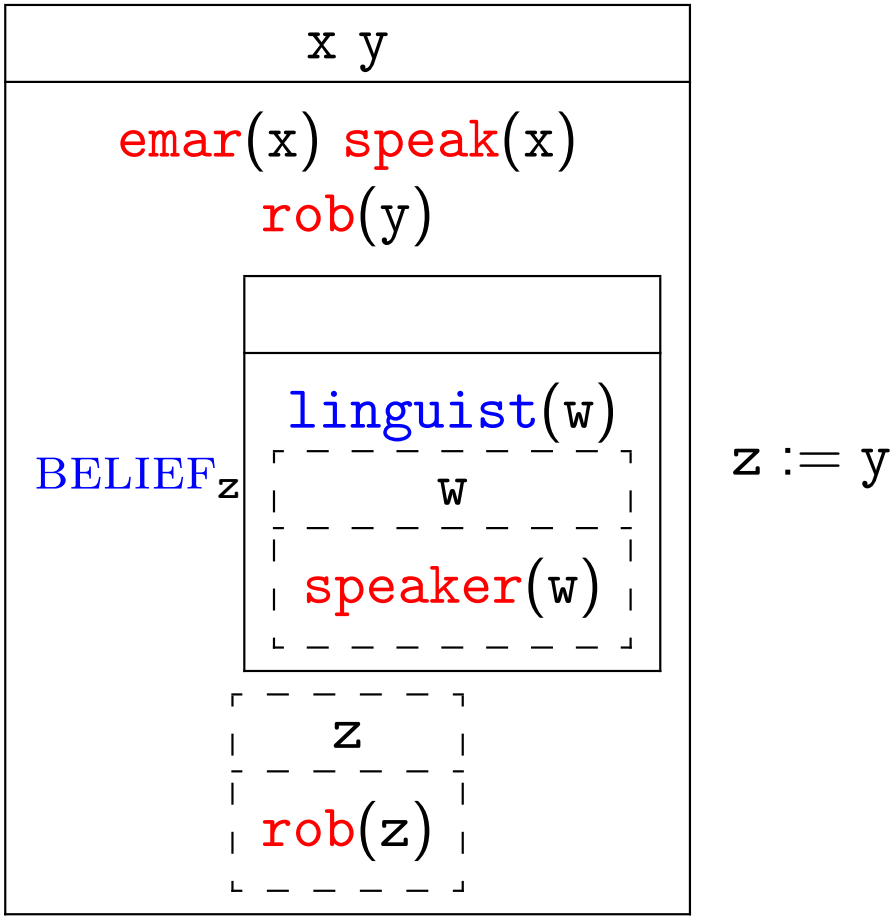
Rob$_i$ thinks that I$_i$ am a linguist



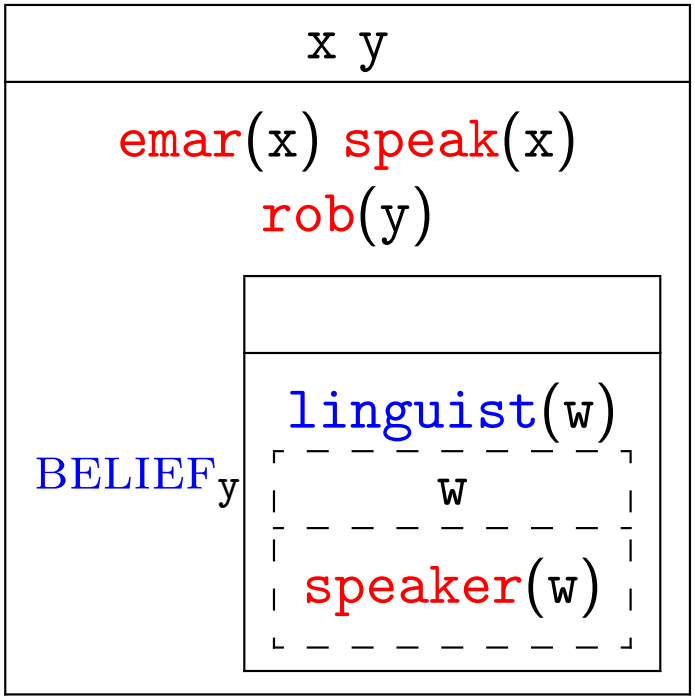
Rob$_j$ thinks that I$_j$ am a linguist



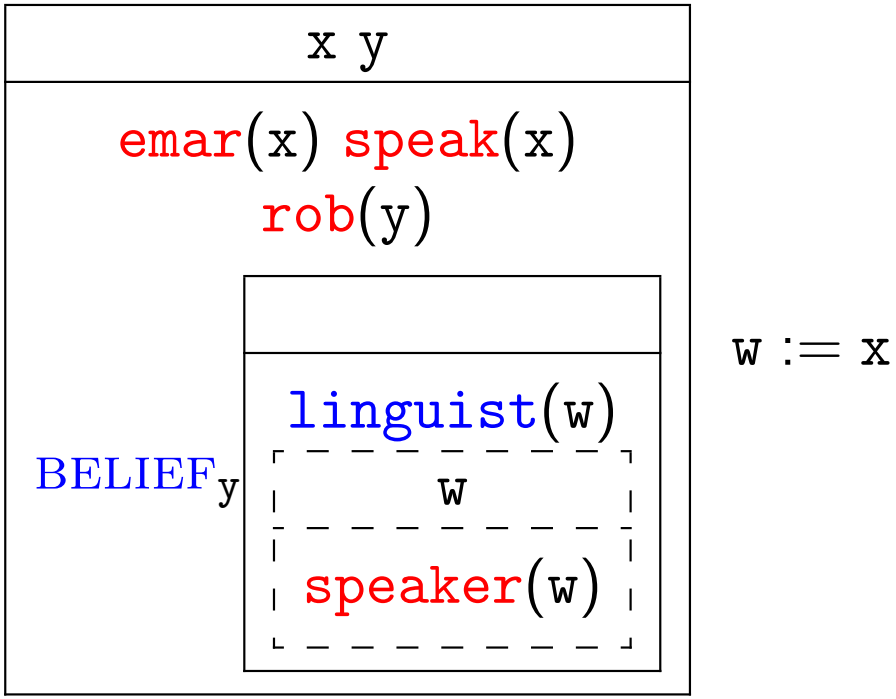
Rob_i thinks that I_i am a linguist



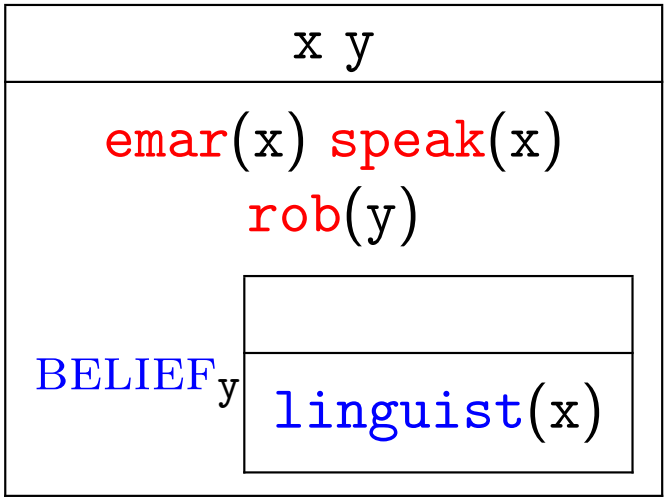
Rob$_i$ thinks that I$_i$ am a linguist



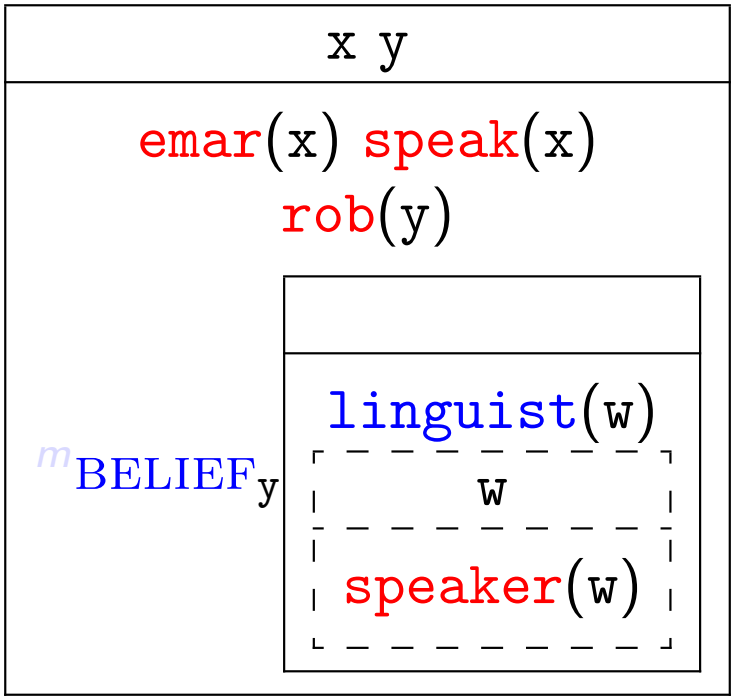
Rob$_i$ thinks that I$_i$ am a linguist



Rob$_i$ thinks that I$_i$ am a linguist



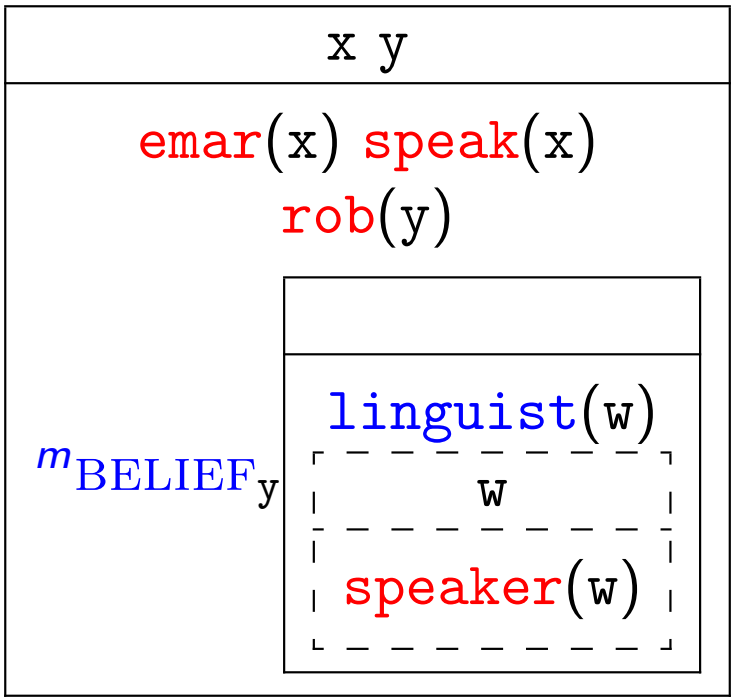
Rob$_i$ thinks that I$_i$ am a linguist



iff $\mathcal{B}el(f(\mathrm{y}), w) \subseteq \backslash\backslash\varphi\backslash\backslash$

iff every belief alternative $c \in [\![\varphi]\!]^c$

Rob$_i$ thinks that I$_i$ am a linguist

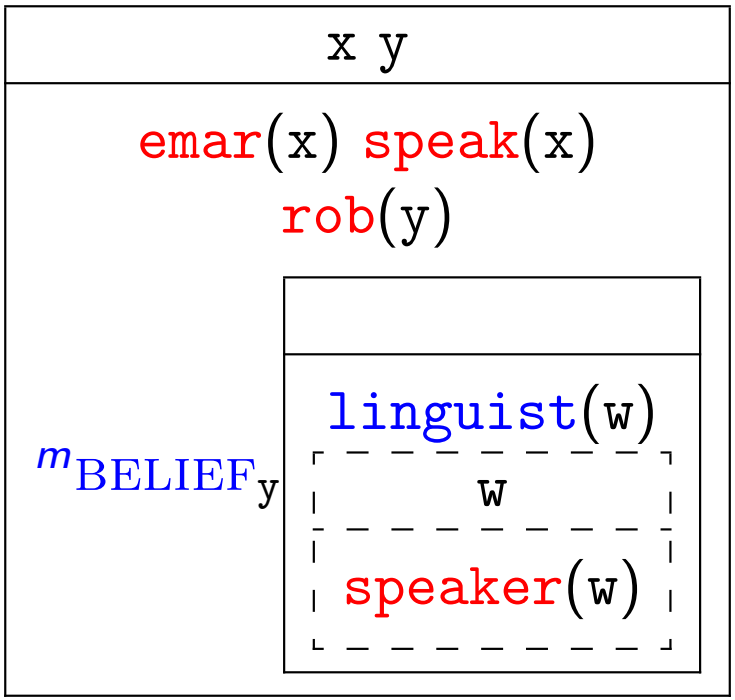


$$[\![^m\text{BELIEF}_y\varphi]\!]^f_w = 1$$

iff $\mathcal{B}el(f(y), w) \subseteq \backslash\backslash\varphi\backslash\backslash$

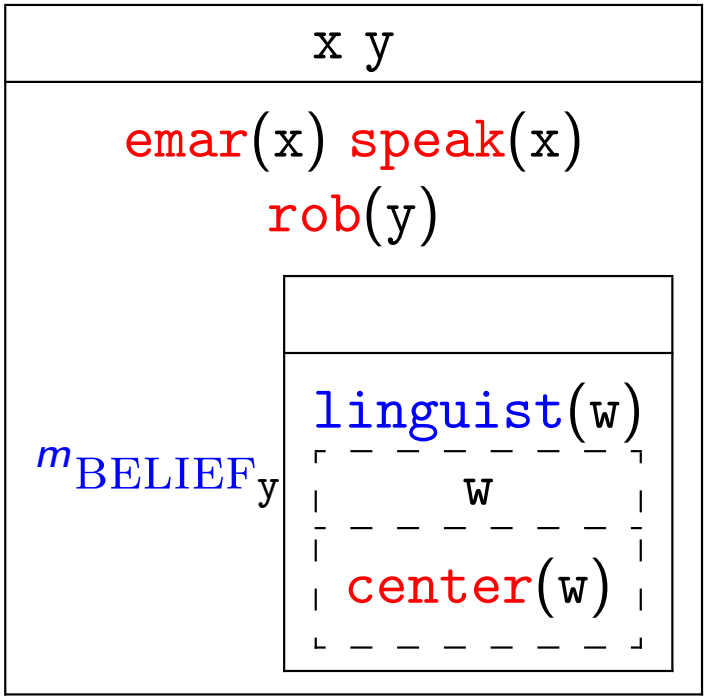
iff every belief alternative $c \in [\![\varphi]\!]^c$

Rob$_i$ thinks that I$_i$ am a linguist

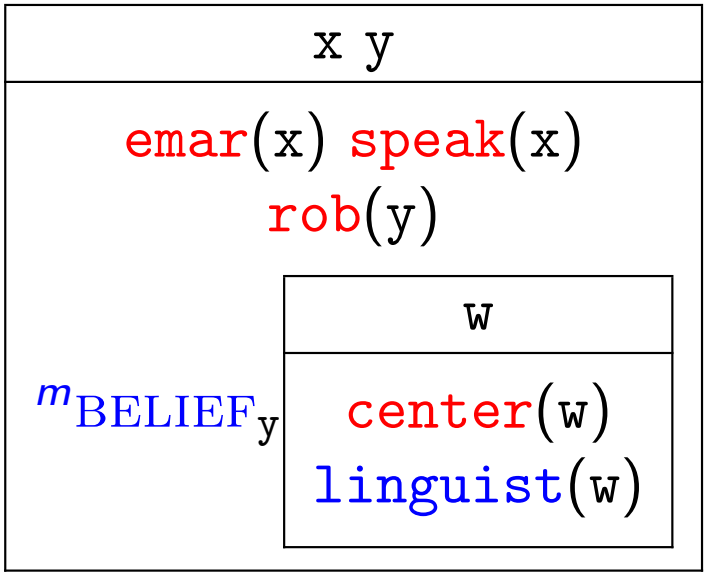


$$[\![^m\text{BELIEF}_y\varphi]\!]^f_w = 1$$
iff $\mathcal{B}el(f(y), w) \subseteq \backslash\backslash\varphi\backslash\backslash$
iff every belief alternative $c \in [\![\varphi]\!]^c$

Rob$_i$ thinks that I$_i$ am a linguist



Rob_i thinks that I_i am a linguist



(≈ Rob believes to inhabit a context whose center is a linguist)

Conlusions

Best of Neo-Descriptivism and Referentialism

- descriptivism:
  - unified account of definites as presuppositions
    - no wide scope stipulation
    - compositional PrelDRS
  - 2LDRT instead of anchors
  - account for (rare) bound readings
    - *only* as generalized quantifier
    - attitudes as monsters
- referentialism:
  - 2D semantics to pass KK
  - Hypothesis L

Open question: how to account for the more flexible proper name resolution? tweak Layer Faithfulness or Hypothesis L?

Conlusions

Best of Neo-Descriptivism and Referentialism

- descriptivism:
  - unified account of definites as presuppositions
    - no wide scope stipulation
    - compositional PrelDRS
  - 2LDRT instead of anchors
  - account for (rare) bound readings
    - *only* as generalized quantifier
    - attitudes as monsters
- referentialism:
  - 2D semantics to pass KK
  - Hypothesis L

Open question: how to account for the more flexible proper name resolution? tweak Layer Faithfulness or Hypothesis L?

Conlusions

Best of Neo-Descriptivism and Referentialism

- descriptivism:
  - unified account of definites as presuppositions
    - no wide scope stipulation
    - compositional PrelDRS
  - 2LDRT instead of anchors
  - account for (rare) bound readings
    - *only* as generalized quantifier
    - attitudes as monsters
- referentialism:
  - 2D semantics to pass KK
  - Hypothesis L

Open question: how to account for the more flexible proper name resolution? tweak Layer Faithfulness or Hypothesis L?