

Specificational subjects are individual concepts

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Predicational vs. specificational copular sentences

Copular sentences with postcopular NP:

- (1) Tim is a/the lawyer. [Predicational]
- (2) The lawyer is Tim. [Specificational]

Predicational sentences

(1) [NP1 Tim] is [NP2 a/the lawyer]

Consensus:

- Like copular sentences with postcopular AP/PP
- NP2 is a property of things of the type NP1 names/quantifies over:
Tim is referential (type e); *a/the lawyer* denotes a property $\langle e, t \rangle$

Specificational sentences

(2) [NP1 The lawyer] is [NP2 Tim]

- NP2 is a name (referential, not predicational)
- NP1 is a definite description. Analyses:

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 - **Predicate Inversion**: inverted predicational sentence
NP1 denotes a property $\langle e, t \rangle$
(Heggie 1988, Moro 1997, Mikkelsen 2005)

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- NP2 is a name (referential, not predicational)
- NP1 is a definite description. Analyses:
 - **Predicate Inversion**: inverted predicational sentence
NP1 denotes a property $\langle e, t \rangle$
(Heggie 1988, Moro 1997, Mikkelsen 2005)
 - **Individual Concept**: NP1 denotes an individual concept $\langle s, e \rangle$
(Romero 2005)

Individual Concept is the right analysis

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- VP coordination

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- VP coordination
- quantificational specificational subjects
- truth-conditional non-equivalence of specificational and predicational sentences

Outline

- 1 **Specification subjects**
 - as inverted predicates
 - as individual concepts
- 2 **Coordination**
- 3 **Quantificational specification subjects**
- 4 **Truth-conditional non-equivalence**

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Predicate Inversion Analysis

Specificational & predicational sentences have the same underlying structure

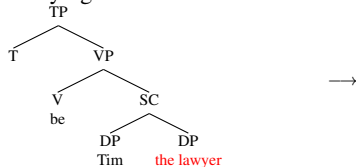
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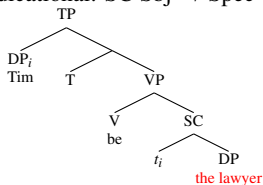
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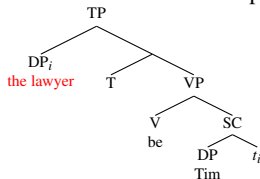
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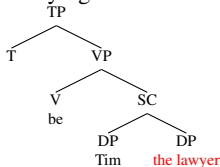
Predicational: SC Sbj \rightarrow Spec-TP



Specificational: SC Pred \rightarrow Spec-TP



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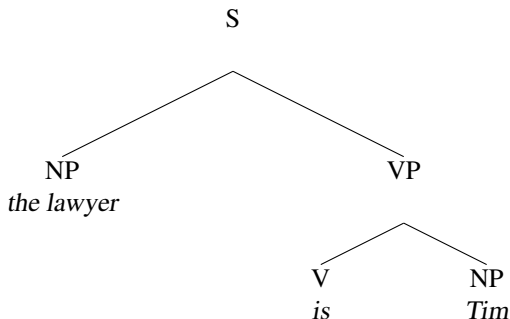


Individual Concept Analysis

(Romero 2005)

Subject denotes an IC; postcopular NP is its value in world of evaluation

(2) The lawyer is Tim.

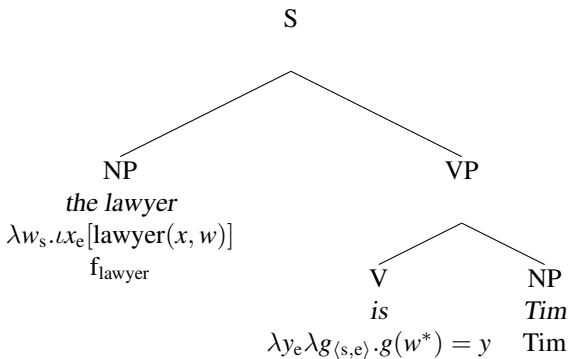


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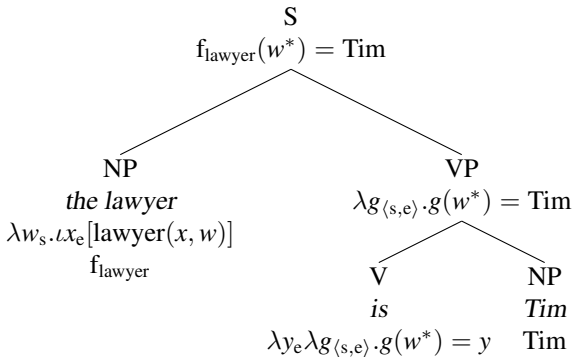


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VP coordination

The argument

- Specificational VPs can be coordinated with VPs that select IC subjects
- ⇒ Specificational subjects are individual concepts

Assumptions

- ① Coordination applies to constituents of the same semantic type (Partee and Rooth 1983)

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- ② Some VPs select an individual concept as a subject (type $\langle se, t \rangle$):
 - (3) The temperature **is rising**.
 - (4) The price of milk **changes from state to state**.

Specificational VPs select IC subjects

Specificational sentence:

(5) The temperature is 30.

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The subject of a specificational sentence denotes an individual concept.

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Similar argument from:

(7) The price of milk is 3.99 (but changes from state to state).

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Mikkelsen's argument from quantification

Predicate Inversion predicts:

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Mikkelsen's evidence:

- CONTEXT: A movie stars Liv Ullman and Ingrid Bergman, and they are the only actresses in the movie.

(8) #Every actress in this movie is Liv Ullman or Ingrid Bergman.

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Related to similar facts in predicational counterpart:

- (9) a. # Liv Ullman or Ingrid Bergman are every actress in that movie.
 b. # Liv Ullman is every actress in that movie.

More generally, **specificational subjects have the same properties as predicates in predicational sentences**

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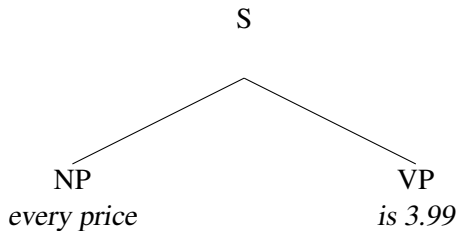
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Not quantification over individuals:

- 4 out of 6 of the price concepts are 3.99
- Only 1 out of 3 of the numbers are 3.99

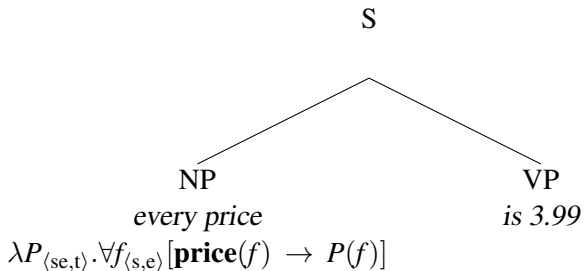
Specificational subjects as quantifiers over concepts

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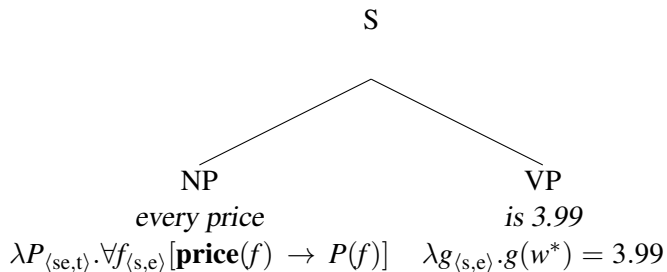


NP: quantifier over price concepts

price: set of price concepts ($\langle se, t \rangle$ constant)

Specificational subjects as quantifiers over concepts

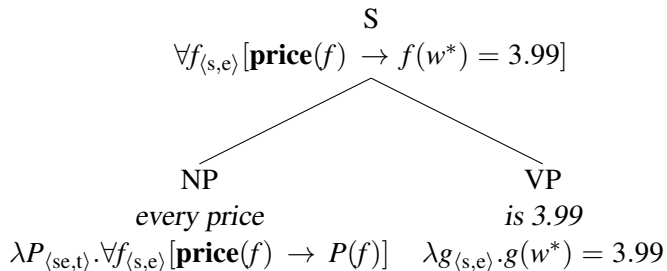
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VP: $\langle se, t \rangle$

Specificational subjects as quantifiers over concepts

(10) Every price is 3.99.



All price concepts are 3.99

Can Predicate Inversion account for this?

Maybe Mikkelsen is wrong about the predictions of Predicate Inversion

- After all, predicates can be quantificational:

(12) Mary is everything Sue is. [Predicational]

everything Sue is quantifies over properties

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⇒ Maybe specificational subject QPs are inverted quantified predicates:

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For every property P such that for some y , $P = \lambda x.x$ is the price of y , $P(3.99)$.

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So the question is:

Can specificational subject QPs be analyzed as quantified predicates?

Specificational subject QPs are not quantified predicates

2 arguments:

- Quantified predicates cannot be specificational subjects:

(12) Mary is everything Sue is. [Predicational]

(13) *Everything Sue is is Mary. [Specificational]

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Conclusion

Specificational subject QPs quantify over concepts, not predicates

What's wrong with (8)?

From Mikkelsen's argument:

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Proposal

actress in this movie is easy to construe as set of individuals, not concepts

⇒ Oddness disappears by making the NP construable as a set of concepts

Actress concepts, case 1

Context with a salient set of actress-concepts (roles); a movie with:

| | | | |
|---------------------|---------|-----------|--------|
| Queen of the Night: | Hepburn | Pamina: | Ullman |
| Papagena: | Ullman | Papageno: | Bogart |
| Tamino: | Bergman | Sarastro: | Ullman |

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- (15) Every actress in this movie except the one who plays Queen of the Night is either Liv Ullman or Ingrid Bergman.

Actress concepts, case 2

- (16) Every lead actress in a 50s Scandinavian movie is Liv Ullman or Ingrid Bergman.

Actress concepts, case 2

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• $\llbracket \text{lead actress in a 50s Scandinavian movie} \rrbracket =$

$$\left\{ \begin{array}{l} \lambda w. \text{the lead actress in } x \\ \lambda w. \text{the lead actress in } y \\ \lambda w. \text{the lead actress in } z \\ \dots \end{array} \right\} = \text{LA}$$

\Rightarrow For every concept f in LA, $f(w^*) = \text{Ullman}$ or $f(w^*) = \text{Bergman}$

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Truth-conditional non-equivalence

General prediction:

- **Predicate Inversion**: specificational & predicational sentences are truth-conditionally **equivalent** (modulo movement)
- **Individual Concept**: not equivalent

Truth-conditional non-equivalence

General prediction:

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Argument for Individual Concept

Sentences with **not, only** show they're not equivalent

Non-equivalence: negation

(17) One of the prices is not 3.99.

[Specificational: $\text{one} > \neg$]

(18) 3.99 is not one of the prices.

[Predicational: $\neg > \text{one}$]

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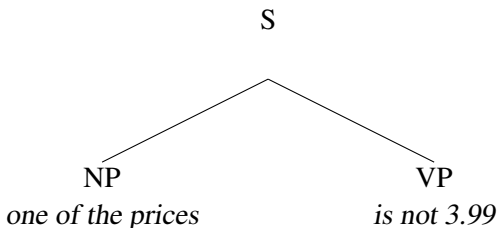
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Individual Concept predicts non-equivalence; Predicate Inversion doesn't

Individual Concept derives right meaning

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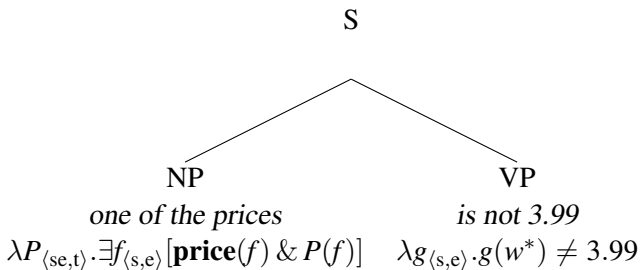
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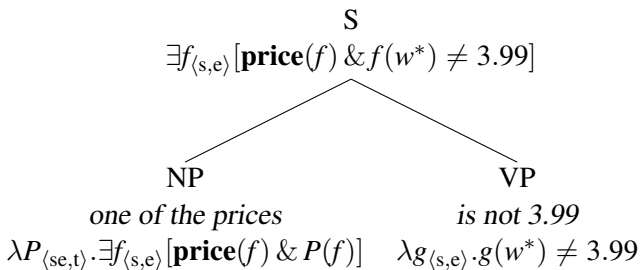
VP: $\langle se, t \rangle$, negation
$$\llbracket is \ not \ 3.99 \rrbracket = \llbracket not \ be \ 3.99 \rrbracket = \llbracket not \rrbracket (\llbracket be \ 3.99 \rrbracket) =$$

$$\llbracket not \rrbracket (\lambda g_{\langle s, e \rangle} \cdot g(w^*) = 3.99) = \lambda g_{\langle s, e \rangle} \cdot g(w^*) \neq 3.99$$

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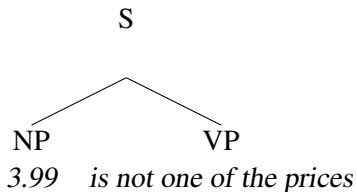


True if there's a price that's not 3.99

Not equivalent to predicational counterpart

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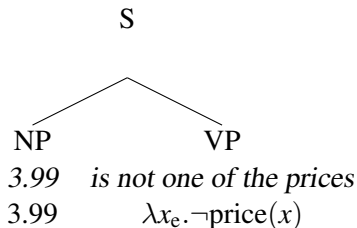
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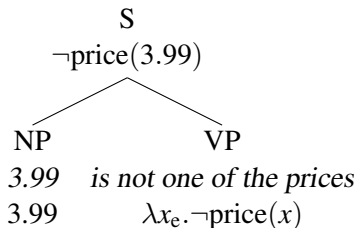
VP: $\langle e, t \rangle$, negation

NP: e

Not equivalent to predicational counterpart

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[Predicational]



True if no price is 3.99. Not true in context above

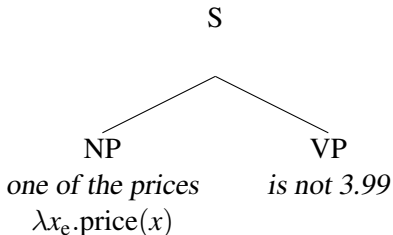
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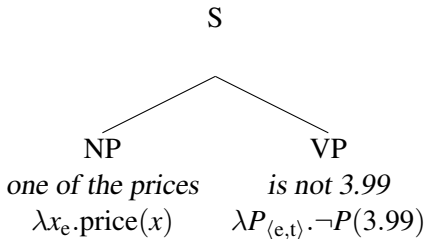


NP: $\langle e, t \rangle$ (inverted predicate; it can't be quantifier over individuals/predicates)

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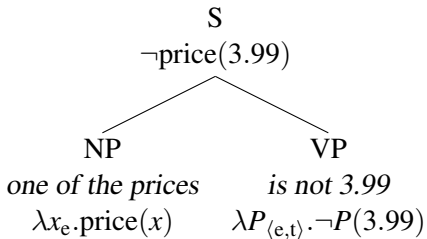
3.99: type *e*; lifted to $\langle et, t \rangle$ by *be*: $\llbracket be\ 3.99 \rrbracket = \lambda P_{\langle e,t \rangle}.P(3.99)$

is not 3.99: negation applied to *be 3.99*

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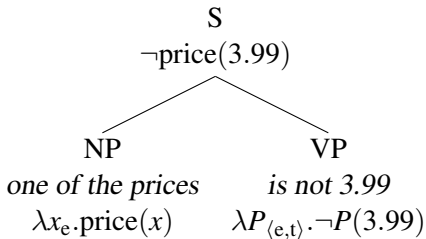


Wrong meaning; same as predicational sentence

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Wrong meaning; same as predicational sentence

But how dependent is this on an explicit semantics for Predicate Inversion?

Regardless, Predicate Inversion derives the wrong meaning

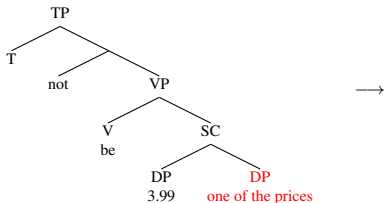
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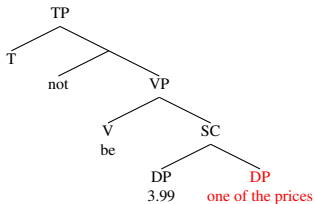


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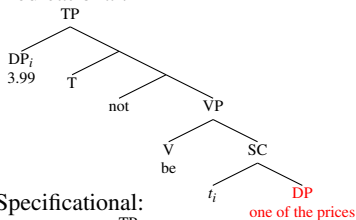
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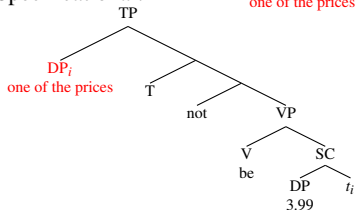


→

Predicational:



Specificational:



- Both have the same denotation as underlying structure, where negation outscopes *one of the prices*

Non-equivalence: *only*

(19) One of the prices is only 3.99.

[Specificational: *scalar only*]

(20) Only 3.99 is one of the prices.

[Predicational: *non-scalar*]

Non-equivalence: *only*

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Scalar reading of (19) is true iff:

There is a price p (out of the salient set of prices) such that:

- p is 3.99, and
- no number higher than 3.99 is p
- (and \$3.99 is low on the scale)

But (20) doesn't have a scalar reading

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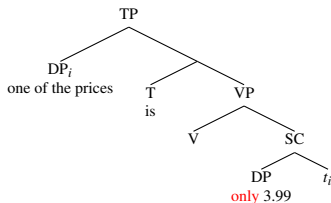
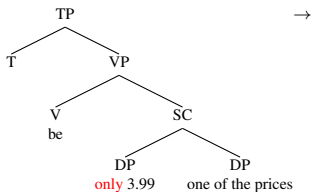
Individual Concept predicts the scalar reading; Predicate Inversion doesn't

Two sources for (19) under Predicate Inversion

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[Specificational]

● *DP-only*:

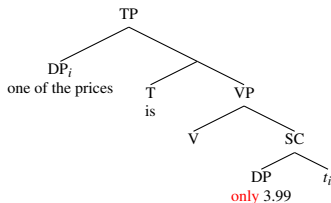
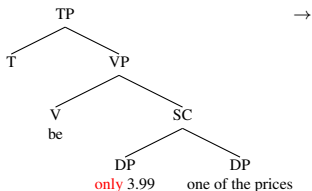


Two sources for (19) under Predicate Inversion

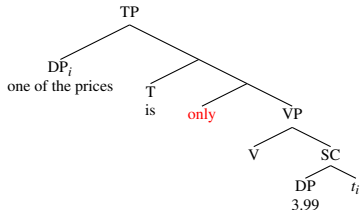
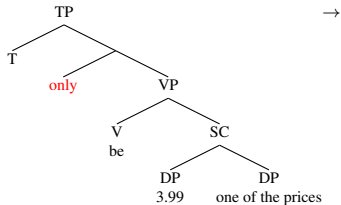
(19) One of the prices is only 3.99.

[Specificational]

● DP-only:



● VP-only:



DP-*only* doesn't derive a scalar reading

Because its predicational counterpart doesn't have one:

- | | |
|---|-------------------|
| (19) One of the prices is only 3.99. | [Specificational] |
| (20) Only 3.99 is one of the prices. | [Predicational] |

DP-*only* doesn't derive a scalar reading

Because its predicational counterpart doesn't have one:

- (19) One of the prices is only 3.99. [Specificational]
 (20) **Only 3.99 is one of the prices.** [Predicational]

More generally:

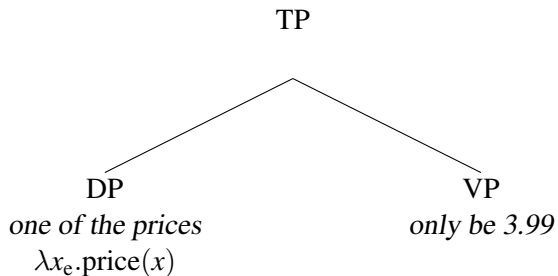
- Scalar *only* possible when attached to predicates, not arguments:

- (21) She only married a janitor. [VP-*only*: scalar reading]
 (22) She married only a janitor. [DP-*only*: no scalar reading]

VP-*only* derives the wrong scalar reading

(19) One of the prices is only 3.99.

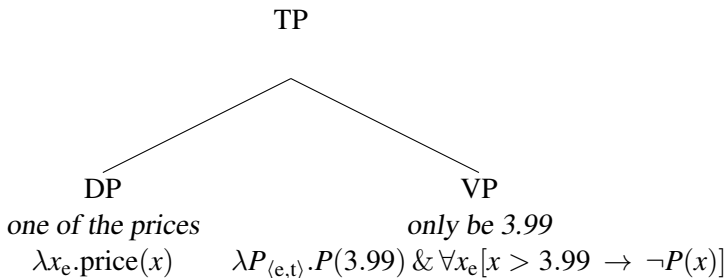
[Specificational]



VP-*only* derives the wrong scalar reading

(19) One of the prices is only 3.99.

[Specification]

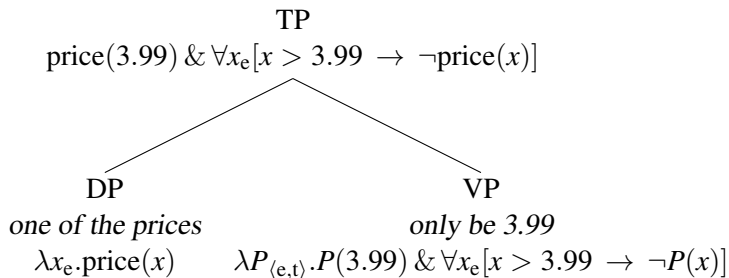


VP: $\langle et, t \rangle$ and scalar *only*

VP-*only* derives the wrong scalar reading

(19) One of the prices is only 3.99.

[Specificational]



Wrong truth conditions

VP-*only* derives the wrong scalar reading

(19) One of the prices is only 3.99. [Specificationnal]

Denotation under Predicate Inversion:

$$\text{price}(3.99) \ \& \ \forall x_e [x > 3.99 \rightarrow \neg \text{price}(x)]$$

VP-*only* derives the wrong scalar reading

(19) One of the prices is only 3.99. [Specificational]

Denotation under Predicate Inversion:

$$\text{price}(3.99) \ \& \ \forall x_e [x > 3.99 \rightarrow \neg \text{price}(x)]$$

The truth conditions derived by Predicate Inversion:

- 3.99 is a price, and
- no number higher than 3.99 is a price

VP-*only* derives the wrong scalar reading

(19) One of the prices is only 3.99. [Specificational]

Denotation under Predicate Inversion:

$$\text{price}(3.99) \ \& \ \forall x_e [x > 3.99 \rightarrow \neg \text{price}(x)]$$

The truth conditions derived by Predicate Inversion:

- 3.99 is a price, and
- no number higher than 3.99 is a price

The actual truth conditions:

There is a price p such that:

- p is 3.99, and
- no number higher than 3.99 is p

Individual Concept derives right meaning

(19) One of the prices is only 3.99.

[Specificational]

S

NP

one of the prices

$\lambda P_{\langle se,t \rangle} \cdot \exists f_{\langle s,e \rangle} [\mathbf{price}(f) \ \& \ P(f)]$

VP

is only 3.99

Individual Concept derives right meaning

(19) One of the prices is only 3.99. [Specificational]

S

NP

one of the prices

$\lambda P_{\langle se,t \rangle} \cdot \exists f_{\langle s,e \rangle} [\mathbf{price}(f) \ \& \ P(f)]$

VP

is only 3.99

$\lambda g_{\langle s,e \rangle} \cdot g(w^*) = 3.99 \ \& \ \forall x_e [x > 3.99 \rightarrow g(w^*) \neq x]$

Individual Concept derives right meaning

(19) One of the prices is only 3.99. [Specificationnal]

S

$$\exists f_{\langle s,e \rangle} [\mathbf{price}(f) \ \& \ f(w^*) = 3.99 \ \& \ \forall x_e [x > 3.99 \ \rightarrow f(w^*) \neq x]]$$

NP

one of the prices

$$\lambda P_{\langle se,t \rangle} . \exists f_{\langle s,e \rangle} [\mathbf{price}(f) \ \& \ P(f)]$$

VP

is only 3.99

$$\lambda g_{\langle s,e \rangle} . g(w^*) = 3.99 \ \& \ \forall x_e [x > 3.99 \ \rightarrow g(w^*) \neq x]$$

Right scalar reading:

There is a price concept f such that:

- f is 3.99 in w^* , and
- no number higher than 3.99 is f in w^*

Conclusion

Specificational subjects are individual concepts, not inverted predicates

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- ① **Coordination**: specificational VPs select individual concepts as subjects

Conclusion

Specificational subjects are individual concepts, not inverted predicates

- 1 **Coordination**: specificational VPs select individual concepts as subjects
- 2 Specificational subjects can **quantify** over individual concepts

Conclusion

Specificational subjects are individual concepts, not inverted predicates

- 1 **Coordination**: specificational VPs select individual concepts as subjects
- 2 Specificational subjects can **quantify** over individual concepts
- 3 **Non-equivalence** of specificational and predicational sentences

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