Hauptseminar Semantics 2

## Presuppositons in LRS

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Questions on the Yule text?

## Procedure

- What are the logical forms we need for sentences that contain presuppositions?
- Which parts of these logical forms are contributed by the presupposition?
- Define a feature percolation mechanism


## Semantic representations of embedded clauses

Vladimir thinks that Godot will arrive.
think2(vladimir, ${ }^{\wedge}($ arrive1 (godot)))

Syntax of the up-operator ( ${ }^{\wedge} \varphi$ ):
For each formula $\varphi,{ }^{\wedge} \varphi$ is a proposition.

## What is a proposition?

So far, we evaluated formulae with respect to a model.
Problem: everything was static!
Now: evaluate formulae with respect to a model AND a scenario, i.e. a possible setting within a model.
$[[\varphi]] \mathrm{M}, \mathrm{w}=$ true iff $\varphi$ is true in scenario w .

For each formula $\varphi$,
$[[\wedge \varphi]]=\{w \mid w$ is a scenario in which $[[\varphi]] M, w=$ true $\}$
Example: Waiting for Godot. Every act is a scenario: w1, w2

$$
\begin{aligned}
& I(\text { blind1 })(w 1)=\{ \} \\
& I(\text { blind1 })(w 2)=\{\langle\text { Pozzo> }\}
\end{aligned}
$$

[[^blind1(pozzo)]]M,w1 = \{w2 $\}$
Normally: we assume enough scenarios/worlds so that we can distinguish between enough different propositions.

$$
\begin{aligned}
& \mathrm{I}(\text { arrive } 1)(\mathrm{w} 1)=\{<\text { Pozzo>, }<\text { Lucky }\rangle,<\text { Boy> }\} \\
& \mathrm{I}(\text { arrive1 })(\mathrm{w} 2)=\{<\text { Pozzo>, }<\text { Lucky>, }<\text { Boy> }\}
\end{aligned}
$$

Let's assume:

Estragon only believes propositions that contain the current scenario.

Vladimir only believes propositions that do not contain wa.

$$
\frac{1}{\operatorname{beid} 1(p o t z J)}
$$

$\left[\left[b e l i e v e 2\left(\right.\right.\right.$ extra, ${ }^{\text {arrive (pozzo) })]] M, w 1}=$ the


## Embedded clauses and existential quantifiers

ES hay
Vladimir believes that some man is blind.

$$
\begin{aligned}
& \left.\left[{ }^{\wedge} \exists x(\operatorname{man} 1(x): b l i n d 1(x))\right]\right]=\{w 2\} \\
& \left.\left[\exists x\left(\operatorname{man} 1(\mathrm{x}): \text { believe2(estra, }{ }^{\wedge} \mathrm{blind} 1(\mathrm{x})\right)\right]\right]^{M}
\end{aligned}
$$

[[^bl ind1(pozzo))]] = \{w2\} ~

$$
\left.\left[\left[{ }^{\wedge} b l i n d 1(\text { vlad) })\right]\right]\right]=\{ \}
$$

## Embedded clauses and existential quantifiers

Vladimir believes that some man is blind.

$\left.\left[{ }^{\wedge} \exists x(\operatorname{man} 1(x): b l i n d 1(x))\right]\right]=\{w 2\}$



$$
\begin{aligned}
& \text { Vial beliefs } \\
& \text { Hut Val duesn't beleinse } \\
& \text { set so. is blind. } \\
& \text { bes } 2 \text { (amer in beer (wad, }
\end{aligned}
$$

## Principles of presupposition projection

1) In every phrase, the PRES value of the mother contains at most PRES elements from the daughters and nothing else.
2) In every phrase, if a PRES element of a daughter is not in the PRES list of the mother, it occurs in the EXCONT value of the mother inside the scope of some operator, here: $\exists, \forall, \neg, \wedge$.
3) Maximize presuppositions: The preferred reading of an utterance is such that the PRES the elements that are in PRES should be in the scope of as few operators that are not in PRES as possible.

Example Est. dich't talk to the girl,

Estragon doesn't talk to the boy.
$\exists x(b o y 1(x):$ ᄀtalk2(estra, $x)$ )
$\neg \exists x(b o y 1(x):$ talk2(estra,x))


## Example

Estragon doesn't talk to the boy.
$\neg \exists x($ boy 1 (x):talk2(estra,x))


[^0]

Retrieval location $(\varphi>\psi)$
If the king of France is bald, then


Kim believes that the king of France is bald, but there is no king of $F$.

Kim believes that the king of France is bald, but I know that he just has very short hair.

## References

Grundy, Peter. 2008. Doing pragmatics. London: Hodder Education. 3rd edn.

Yule, George. 1996. Pragmatics. Oxford: Oxford University Press.


[^0]:    Estragon doesn't talk to the boy

