

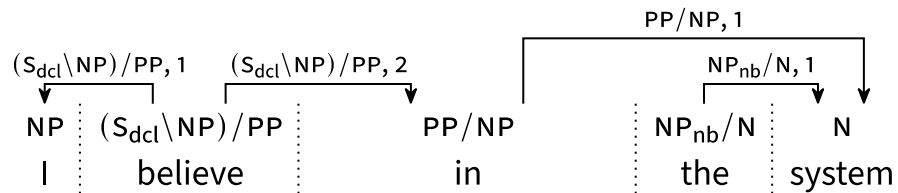


Decomposed scoring of CCG dependencies

Aditya Bhargava and Gerald Penn

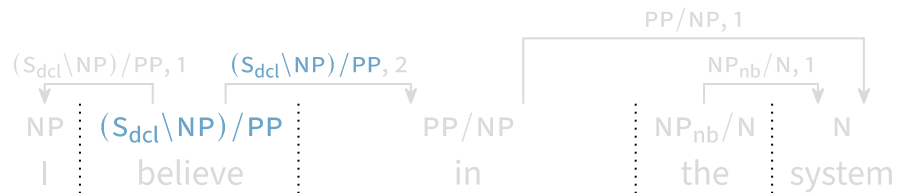


CCG dependencies



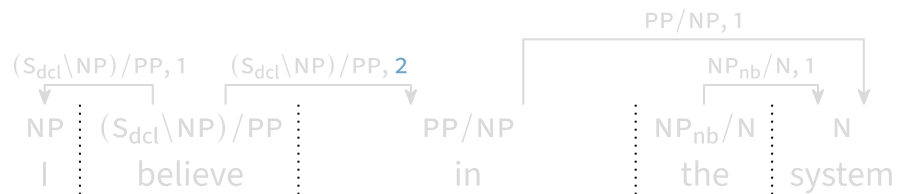
CCG dependencies

Categorial label



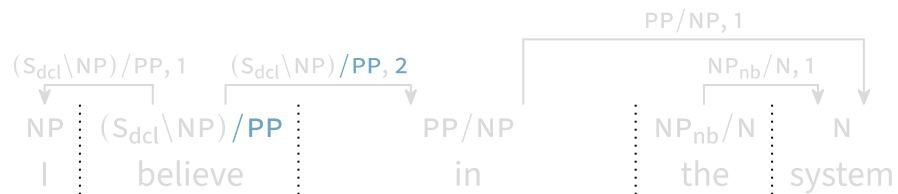
CCG dependencies

Slot number

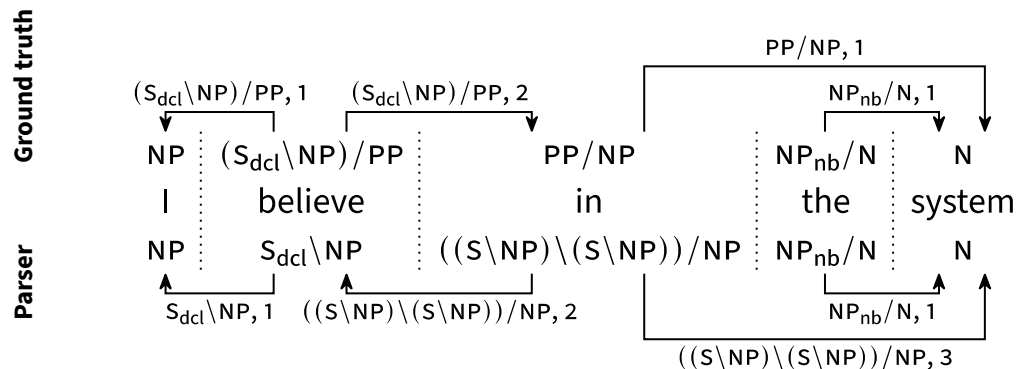


CCG dependencies

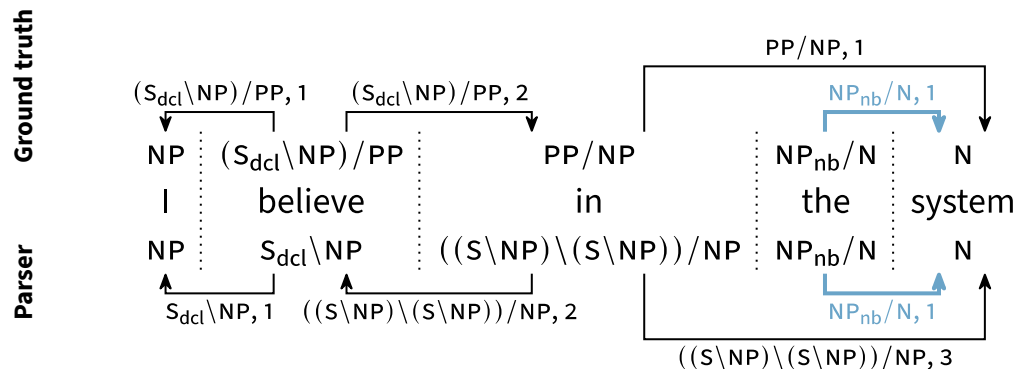
Slot number



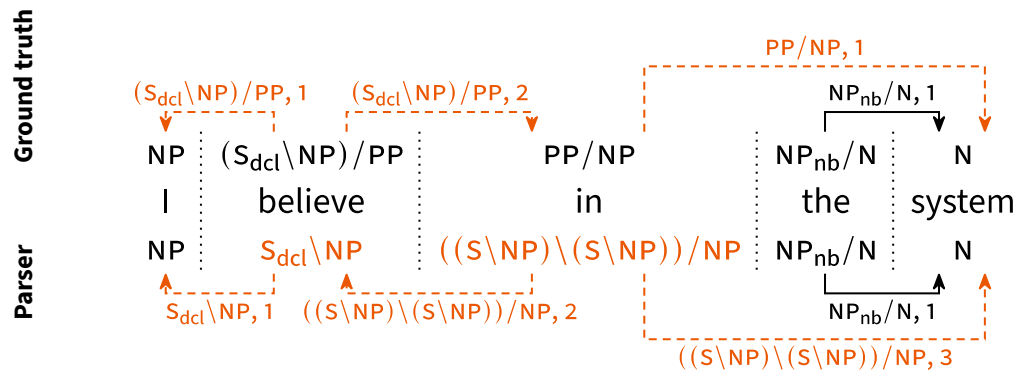
CCG dependencies



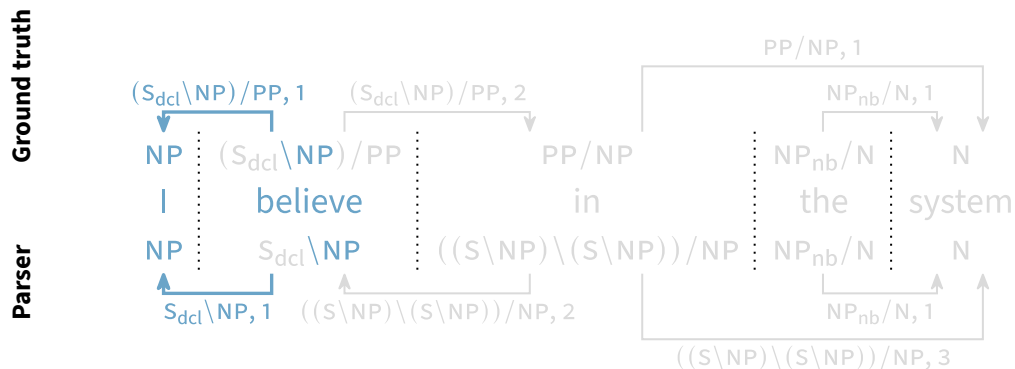
CCG dependencies



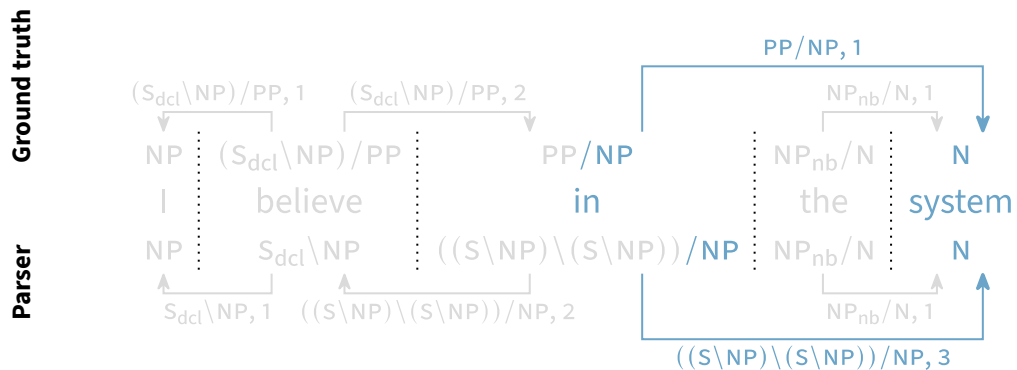
CCG dependencies



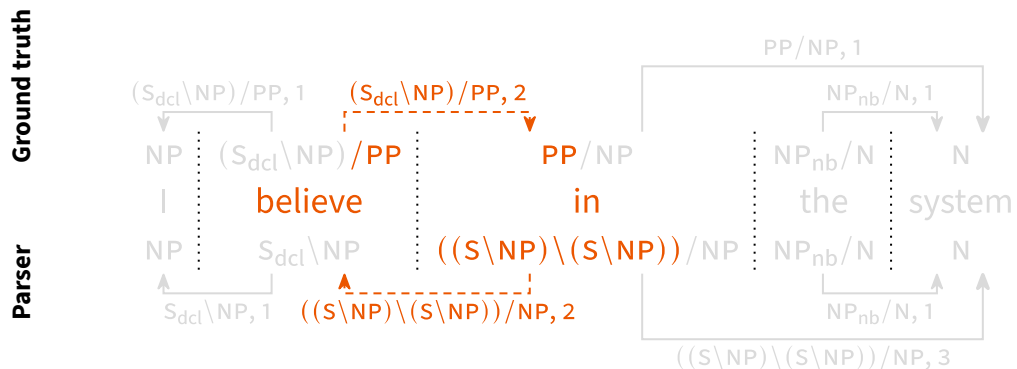
CCG dependencies over-penalize



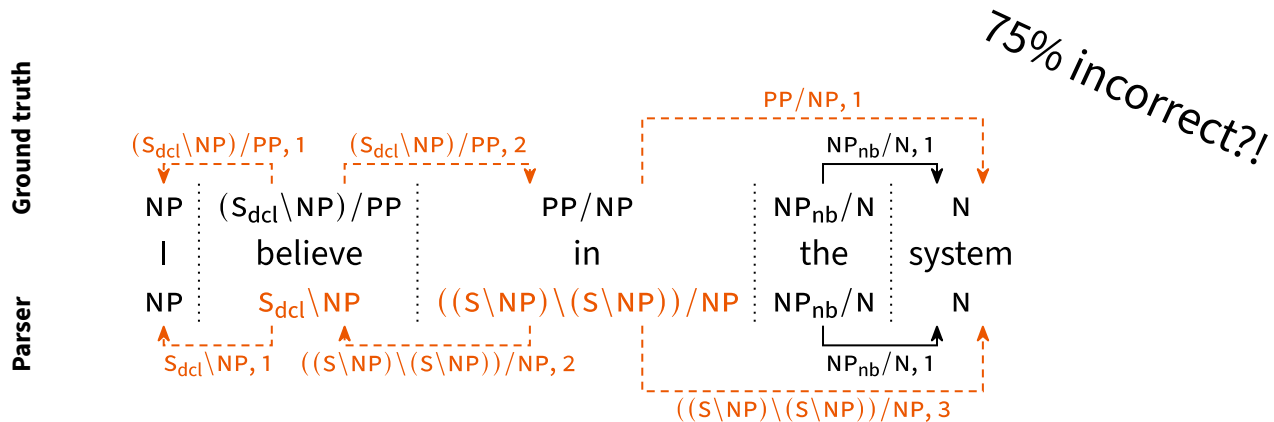
CCG dependencies over-penalize



CCG dependencies over-penalize



CCG dependencies over-penalize

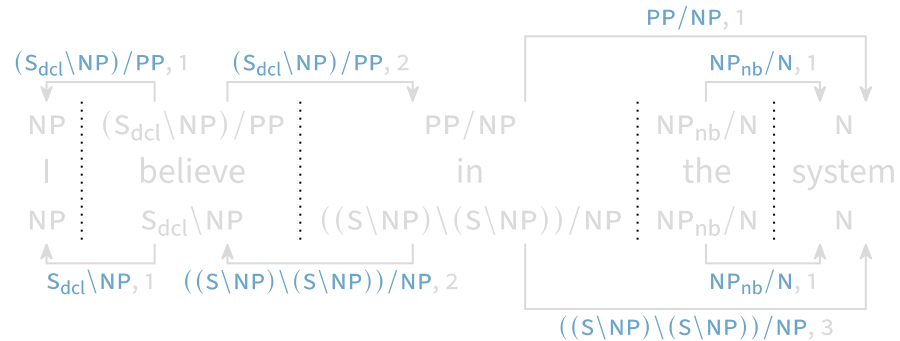




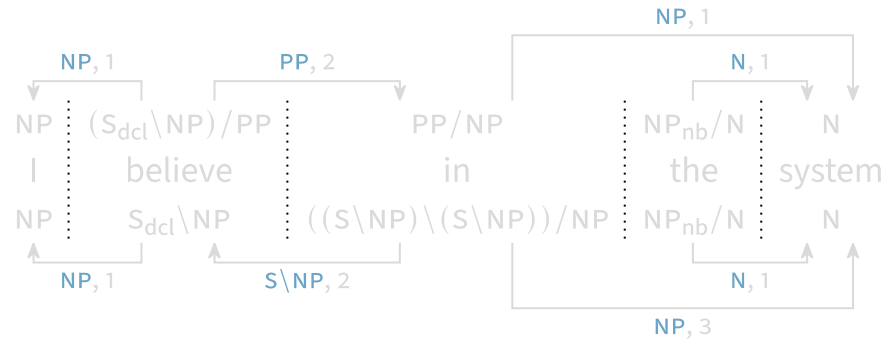
Decomposed scoring

1. Subcategorical labelling
2. Subcategorical alignment
3. Root node inclusion

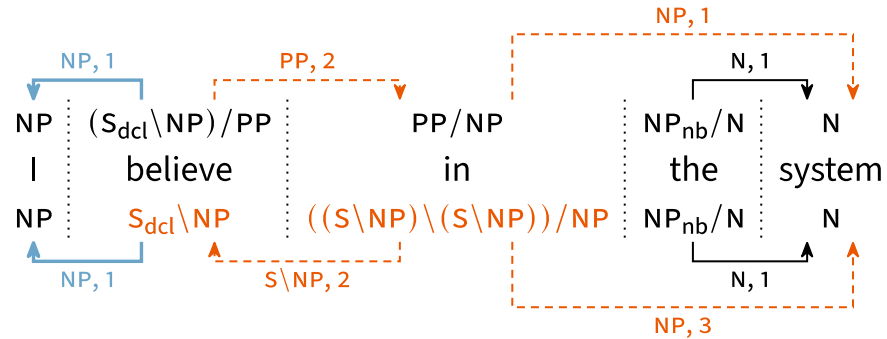
1. Subcategorial labelling



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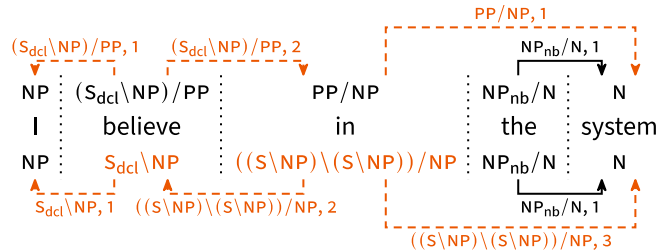


1. Subcategorial labelling

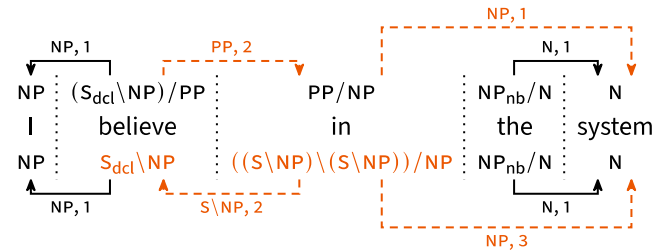


1. Subcategorial labelling

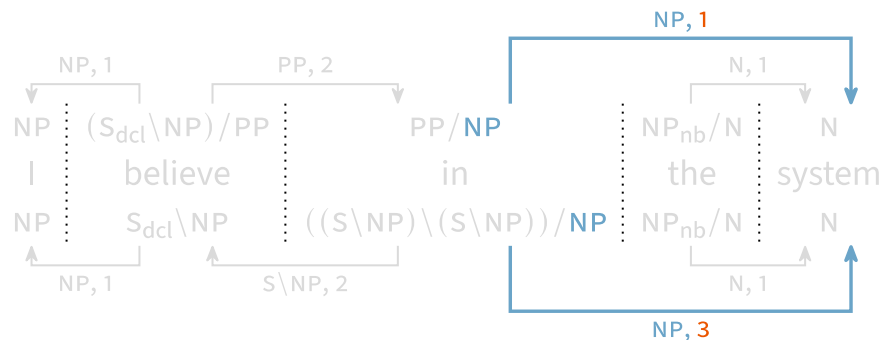
Standard (full-)categorial labelling 👎



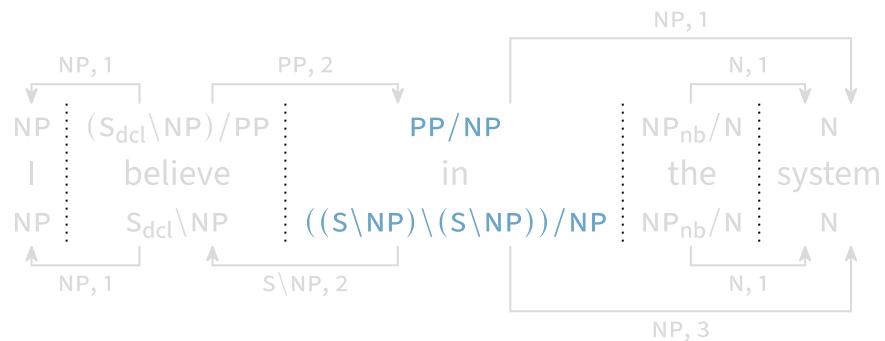
Subcategorial labelling 👍



2. Subcategorial alignment



2. Subcategorial alignment





2. Subcategorial alignment

PP /NP

S \NP \ (S \ NP) /NP



2. Subcategorial alignment

	<S>	S	\NP	\(S\NP)	/NP	</s>
<S>	0	1	2	3	4	5
PP	1	1	2	3	4	5
/NP	2	2	2	3	3	4
</s>	3	3	3	3	4	3

2. Subcategorial alignment

	<S>	S	\NP	\(S\NP)	/NP	</s>
<S>	0	1	2	3	4	5
PP	1	1	2	3	4	5
/NP	2	2	2	3	3	4
</s>	3	3	3	3	4	3

2. Subcategorial alignment

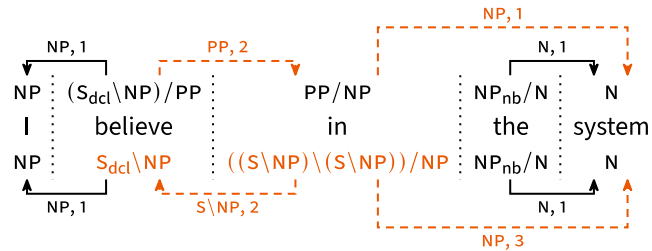
	<S>	S	\NP	\(S\NP)	/NP	</s>
<S>	0	1	2	3	4	5
PP	1	1	2	3	4	5
/NP	2	2	2	3	3	4
</s>	3	3	3	3	4	3

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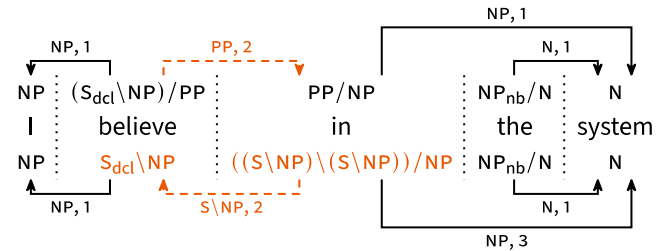
	<S>	S	\NP	\(S\NP)	/NP	</s>
<S>	0	1	2	3	4	5
PP	1	1	2	3	4	5
/NP	2	2	2	3	3	4
</s>	3	3	3	3	4	3

2. Subcategorical alignment

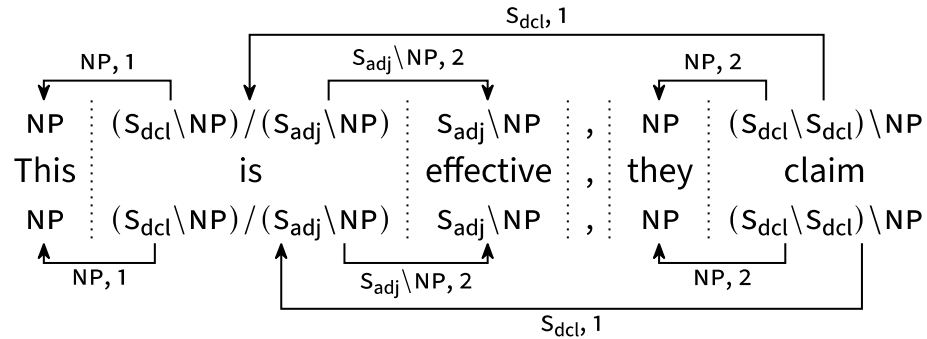
Subcategorical labelling 👍



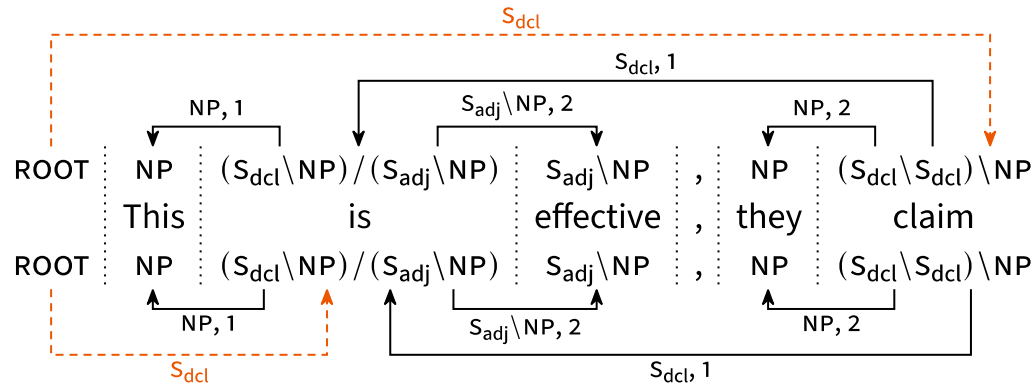
Subcategorical alignment 👍👍



3. Root node inclusion



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Expert validation

Four categorial grammar researchers provided judgements for two tasks:

1. Intrinsic task
2. Extrinsic task



Expert validation

Four categorial grammar researchers provided judgements for two tasks:

1. Intrinsic task
2. Extrinsic task

Judges agreed with decomposed scoring in both tasks.



Decomposed scoring of CCG dependencies

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