Classification of Language Means Expressing Textual Relations in Czech: Difference between Discourse Connectives and Their Alternative Lexicalizations

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To explore the differences between classic connectives (like *and*, *but*, *therefore* etc.) and Alternative Lexicalizations of Discourse Connectives (AltLex's) in Czech: (like *that is the reason why*, *the result is* etc.)

Methods and Material

• The analysis was based on the data from the *Prague Dependency Treebank* (PDT; 43,955 sentences).

• AltLex's are alternative lexicalizations of discourse connectives; they signal certain discourse relation between two verbal arguments but they differ from the classic connectives both lexically and syntactically

• An example of AltLex – the reason is

• An example of a classic connective – therefore

Results of Research

Classic Connectives	AltLexes
synsemantics	structures with autosemantic words
lexically frozen	open or fixed collocations
non-modifiable (with exceptions)	modifiable (with exceptions)
mainly one-word	mainly multiword
not sentence elements	sentence elements, clause modifiers or separate sentences
	uniqueness of some structures:
	a) syntactically higher than the 2 nd argument
	b) form of a separate sentence
	c) nominalization of the 2 nd argument

- 1) Synsemantics (and, but, or...) functioning as connectives on their own vs. Connecting Structures with Autosemantic Components (the reason is – reason is a noun; this means – to mean is a verb etc.)
- 2) Classic connectives are lexically frozen (i.e. grammaticalised), AltLexes form open or fixed collocations (that are not grammaticalised)
- 3) AltLexes mostly allow a free modification (the main/only/first/important reason is etc. vs. *generally and); classic connectives are modifiable only exceptionally (simply because)

Ex.: Another reason is more complex and in essence philosophical.

Classic connectives are modifiable only partly – e.g. *simply/mainly/easily because, but* not **philosophically because.*

Classic connectives are mainly one-word expressions, AltLexes form mostly multiword connecting structures

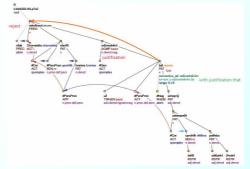
5) Classic connectives (as synsemantics like conjuctions *and*, *but* etc. or structuring particles – *too*, *only* etc.) are not sentence elements, AltLexes are sentence elements (like *because of this*), sentence modifiers (like *simply speaking*) or form a separate sentences (*the reason is simple*)

Uniqueness of some AltLex structures

- AltLexes may form a separate sentence: I will not go to school tomorrow. <u>The reason is easy</u> (= AltLex). I am ill.
- 2) AltLexes may be syntactically higher than the second argument of the relation (i.e. the second argument is syntactically dependent on the AltLex expressed by the main clause) *I will not go to school tomorrow. <u>The reason</u> <u>is</u> (= AtlLex, main clause) <i>that I am ill* (= the second argument, nominal content subordinate clause).

Some AltLexes allow nominalization of the second discourse argument: *The management of the club dismissed the coach*. *<u>The reason are</u> disappointing results (= NP).*

Example of AltLex Annotation in the *Prague Dependency Treebank*



Croatia, however, rejected to open their borders <u>with justification that</u> it is not able to provide other basic necessities to refugees. (AltLex = with justification that; discourse relation = reason – result)

Conclusion

3)

The PDT material demonstrates that classic discourse connectives (like *and*, *but*, *or*) differ from the Alternative Lexicalizations of Connectives in many ways – in lexical, syntactic as well as semantic aspect. The AltLex structures are in many aspect unique in language, as they demonstrate a special behaviour which classic connectives can never do (e.g. to form a separate sentence etc.).

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Data sources

Bejček, E. et al. (2012). Prague Dependency Treebenk 2.5 – extended version of PDT 2.0. In: Proceedings of the 24th International Conference on Computational Linguistics (Coling 2012). Mumbai, India.