

Enhanced Universal Dependencies

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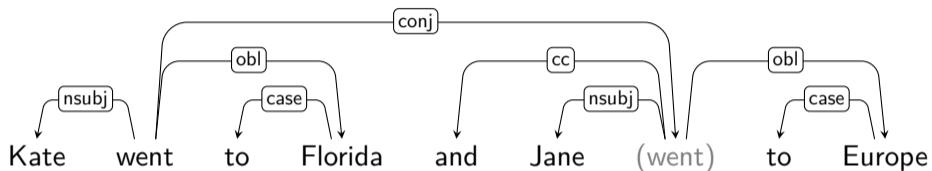


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Institute of Formal and Applied Linguistics



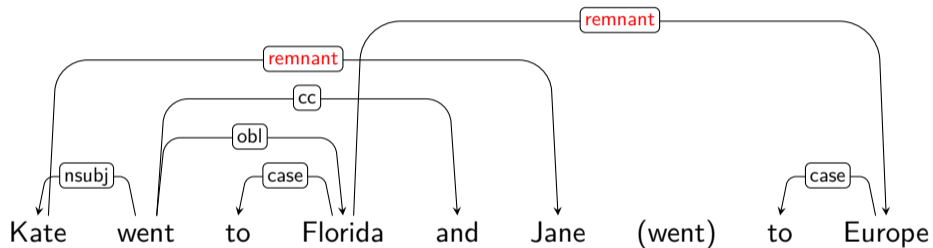
unless otherwise stated

Deleted Predicates in Coordination

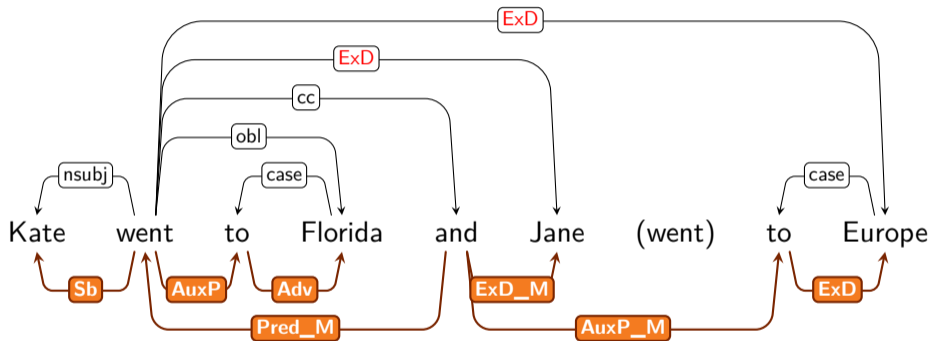


- Some treebanks would use an **empty node** to represent the second *went*.
- UD **enhanced representation** allows empty nodes!
- But the basic representation sticks with the overt words.

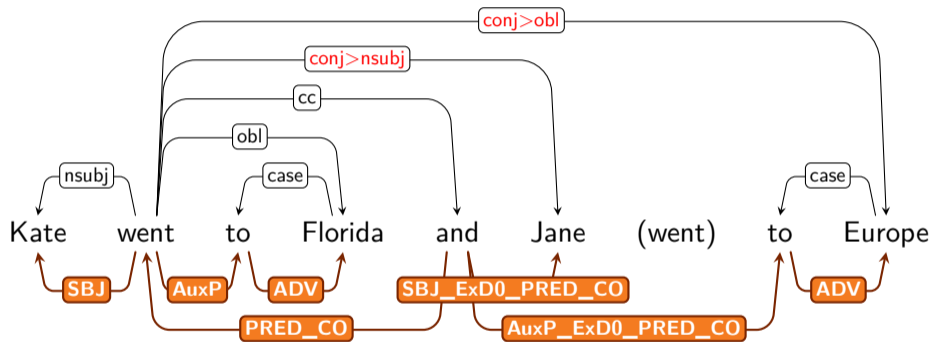
UD V1: The remnant Relation



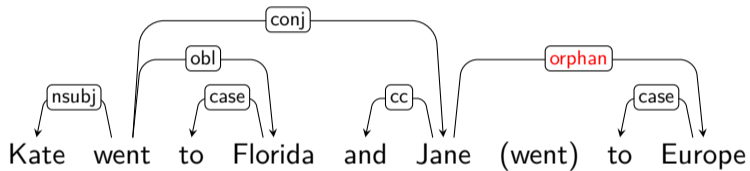
PDT: The ExD Relation



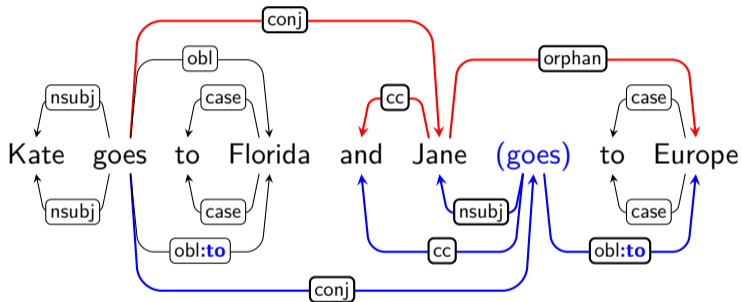
Perseus Treebanks: Chained Relations



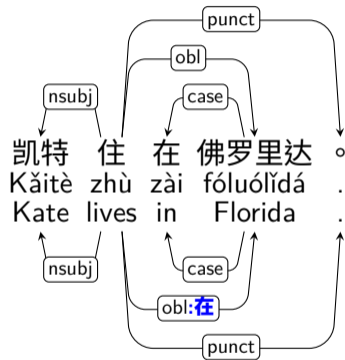
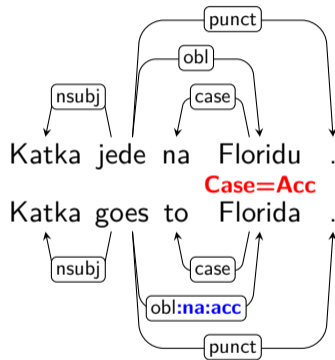
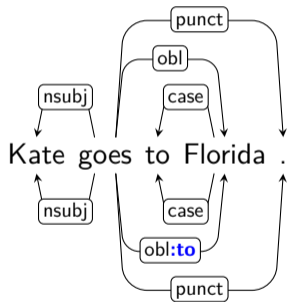
UD V2 Basic Dependencies: The orphan Relation



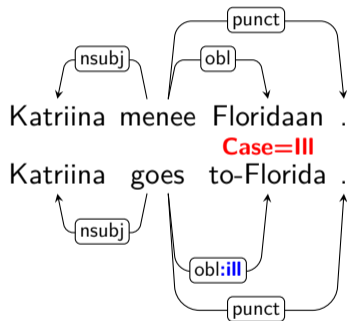
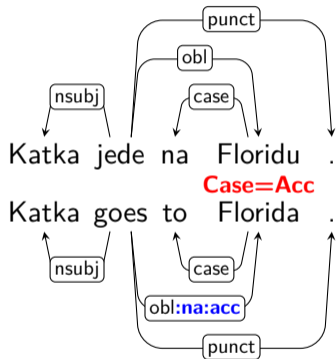
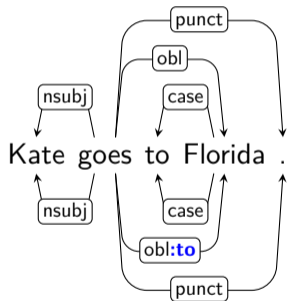
UD Enhanced Dependencies: Gapping and Stripping



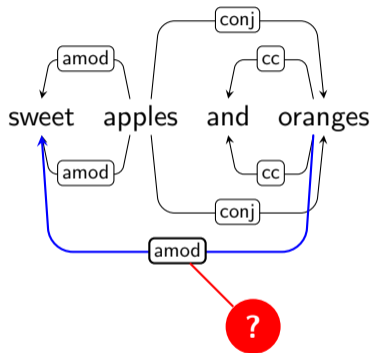
Enhanced UD: Case Information in Dependency Label



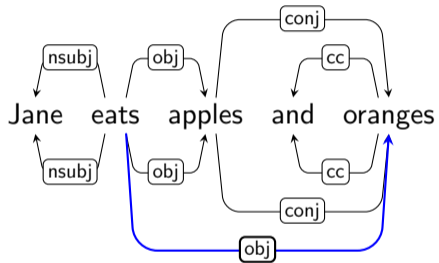
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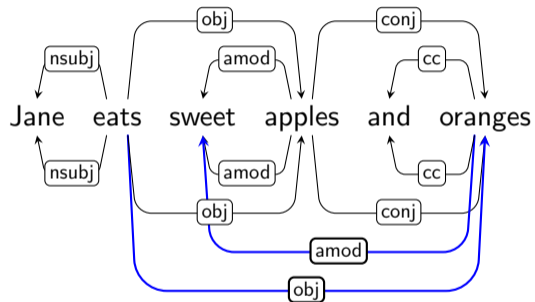
Enhanced UD: Shared Dependent of Coordination



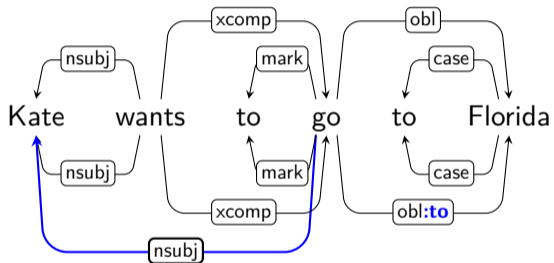
Enhanced UD: Parent of Coordination



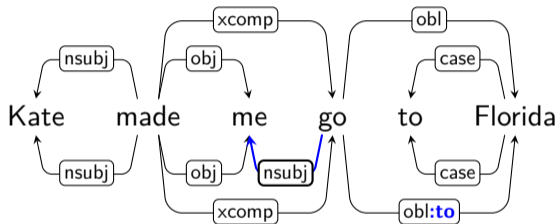
Enhanced UD: Coordination



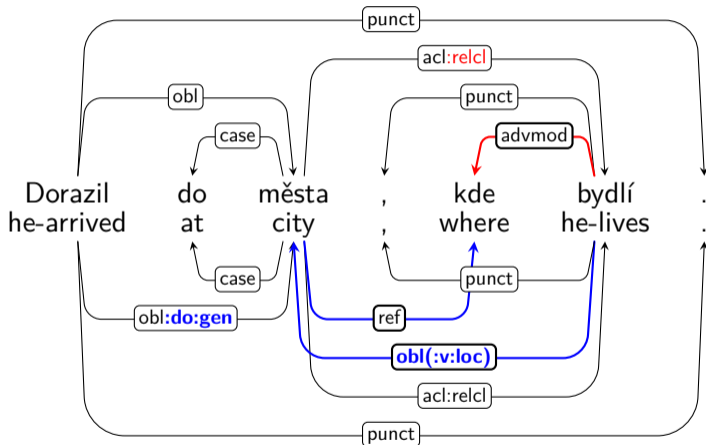
Enhanced UD: External Subject of Controlled Predicate



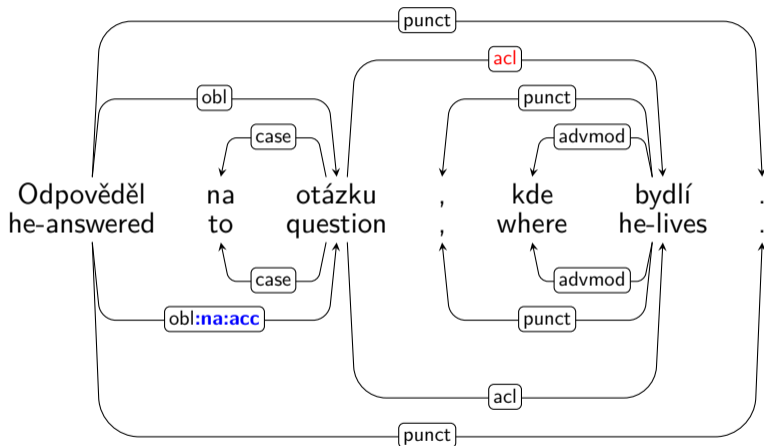
Enhanced UD: External Subject in Object-Control Construction



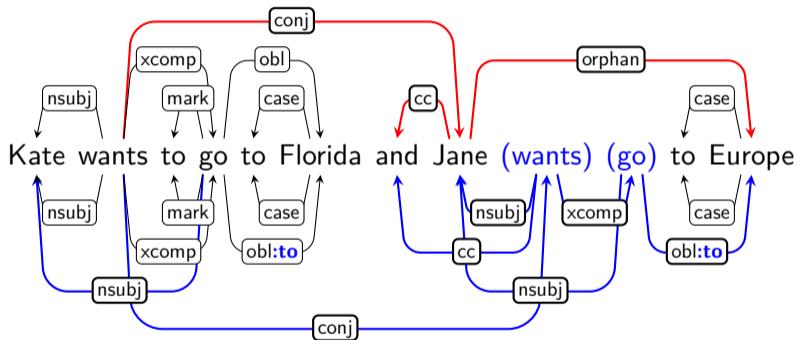
How to Recognize Relative Clauses



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Enhanced UD: Gapping + Control Verb Construction



Enhanced UD: Six Enhancements

- Null nodes for **gapping** (34 treebanks in UD 2.18)
 - But in some of them the null nodes are actually not used (only) for gapping
- Coordination: **Common parent** (40 treebanks)
- Coordination: **Shared dependents** (38 treebanks)
- External subjects of **controlled predicates** (34 treebanks)
- Cyclic dependencies to/from **relative clauses** (31 treebanks)
- **Case**-enhanced dependency labels (31 treebanks)

- All 6 types: 19 treebanks
- At least 1 type: 47 treebanks, 29 languages
- Only basic UD: 306 treebanks

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- **Case-enhanced labels**: deterministic

Conversion from non-UD Data: Extra Information?

- Analytical layer of Prague-style treebanks: **shared dependents of coordination** are known!

