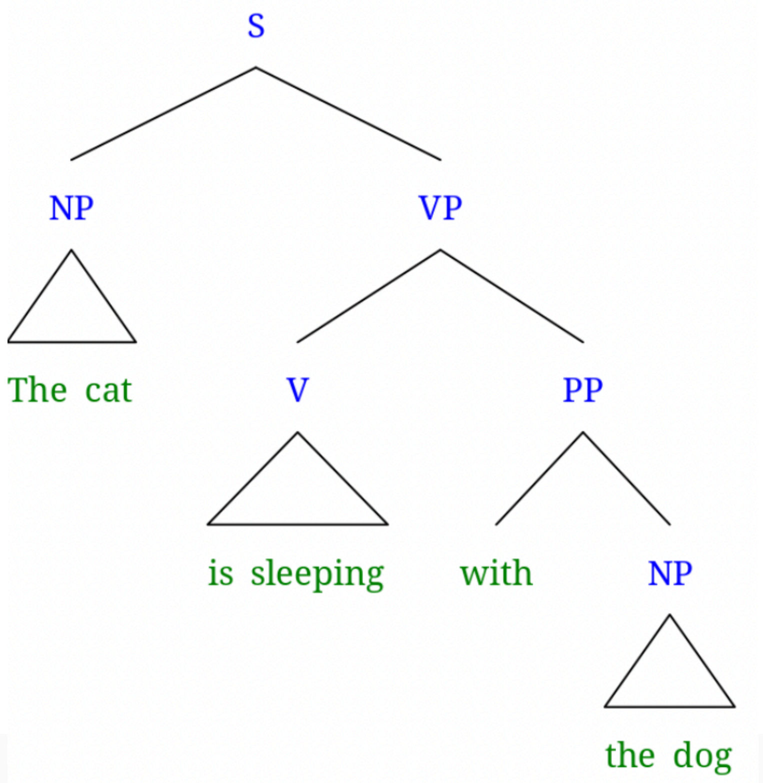
Tools for the generation and visualisation of syntactic trees

Linguistic Resources for Natural Language Processing
LM Language Technologies and Digital Humanities
2024-25

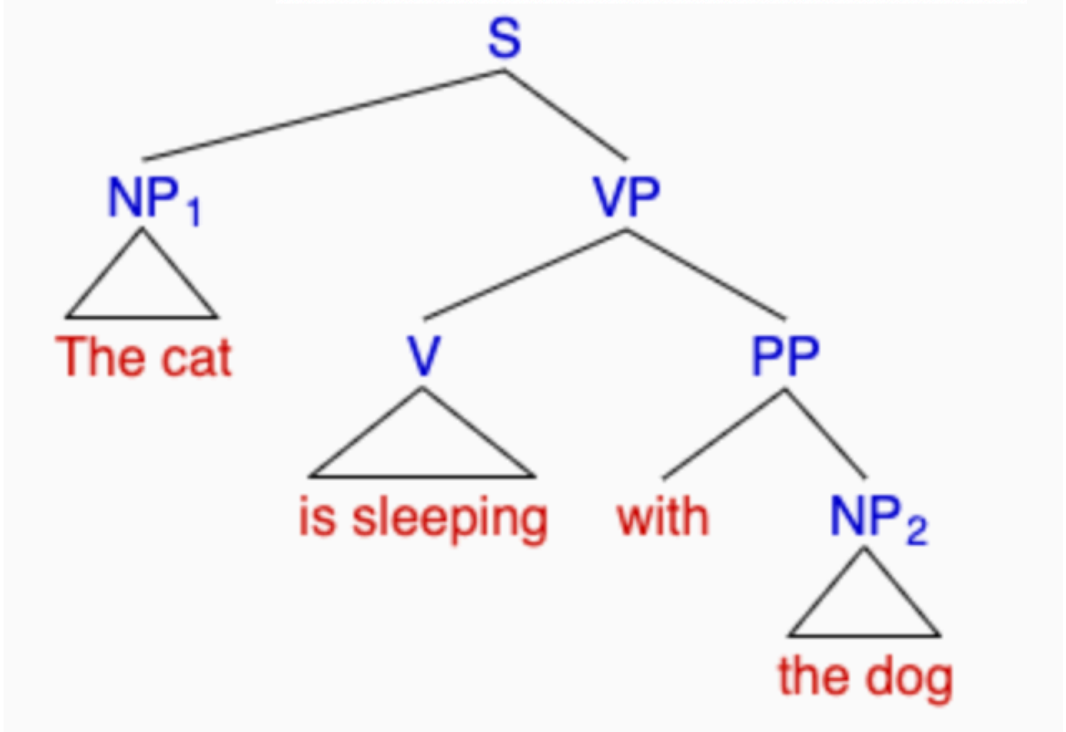
Cristina Bosco

Constituency Trees

- **RSyntaxTree**: given a constituency tree in parenthetical format generates the corresponding tree in **graphic** format: https://yohasebe.com/rsyntaxtree

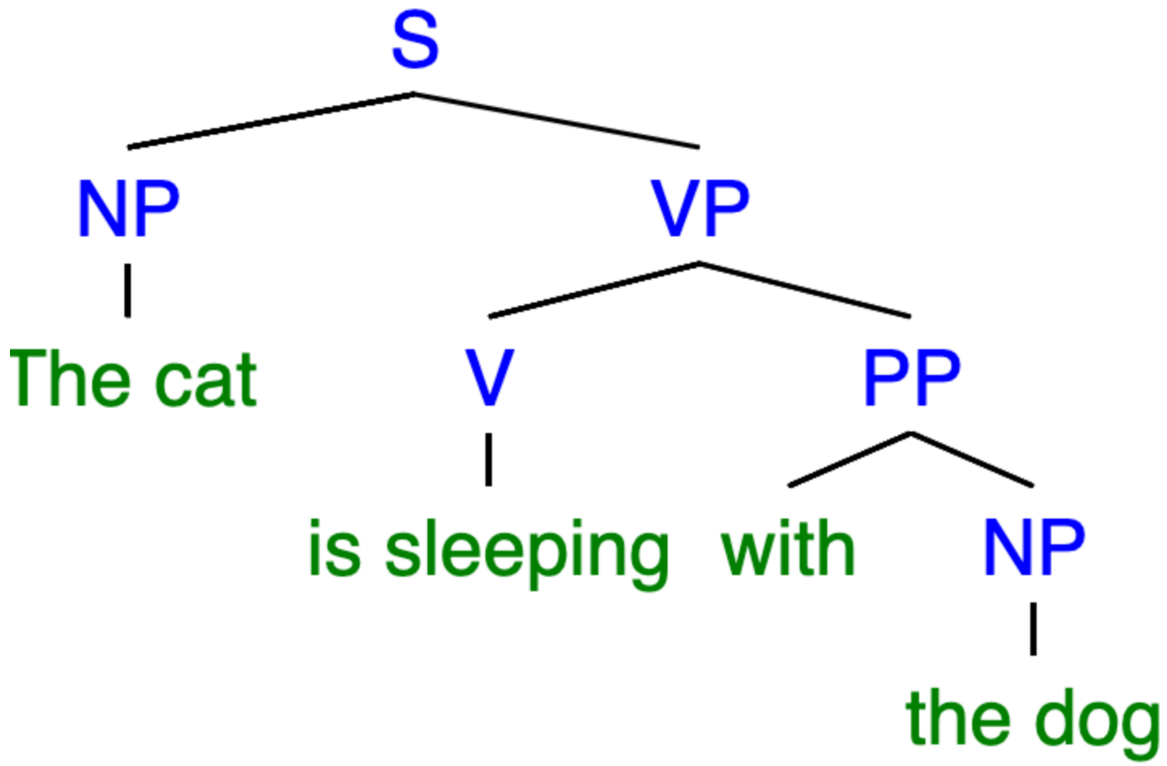


- **jsSyntaxTree**: write a constituency tree in parenthetical format and the tool dynamically generates it in **graphic** format: https://ironcreek.net/syntaxtree/



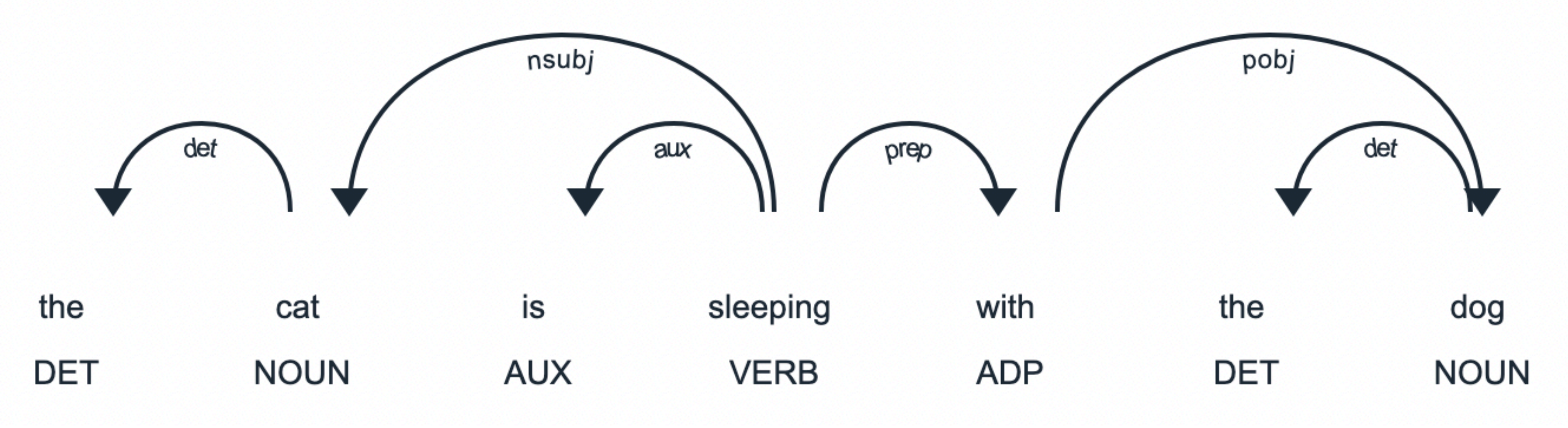
Constituency Trees

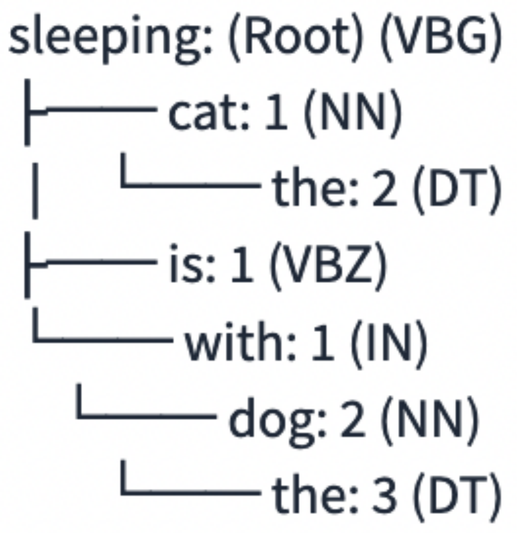
- **SyntaxTree Generator**: write a constituency tree in parenthetical format and the tool dynamically generates it in **graphic** format: https://dprebyl.github.io/syntree/#%5BS%20%0A%09%5BNP%20This%5D%20%0A%09%5BVP%20%0A%09%09%5BV%20are%5D%0A%09%09%5B%5ENP%20a%20wug%5D%0A%09%5D%0A%5D



Dependency Trees

- **Syntactic Tree Generator**: when you enter a sentence, the dependency **analysis** is applied and the corresponding tree generated in 2 different **graphic** formats https://huggingface.co/spaces/nanom/syntactic_tree

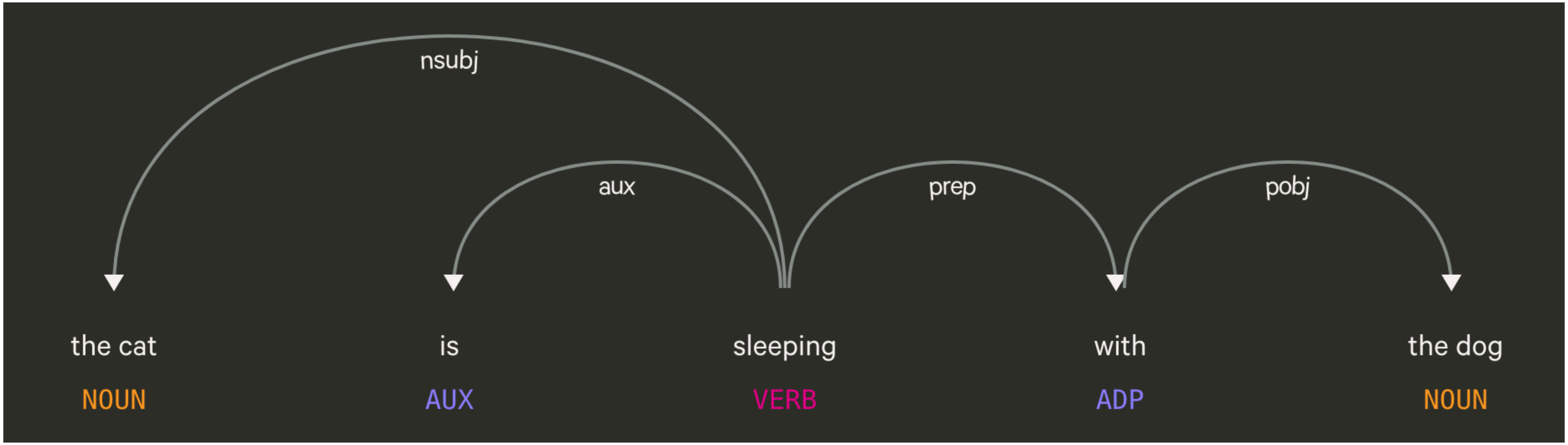




```
sleeping: (Root) (VBG)
├──── cat: 1 (NN)
|    └──── the: 2 (DT)
├──── is: 1 (VBZ)
└──── with: 1 (IN)
     └──── dog: 2 (NN)
          └──── the: 3 (DT)
```

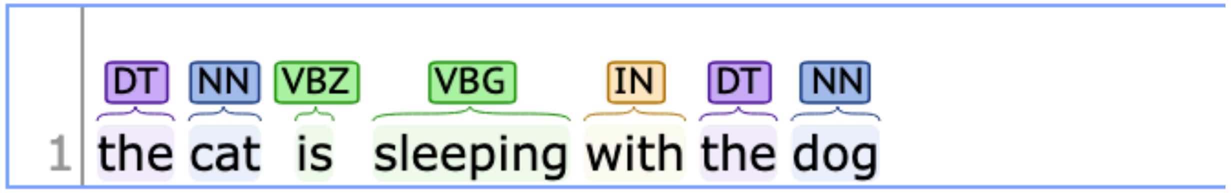
Dependency Trees

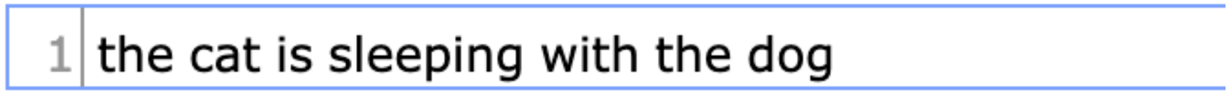
- **DisplaCy Explosion**: when you enter a sentence, the dependency **analysis** is applied and the tree generated in a **graphic** format https://demos.explosion.ai/displacy

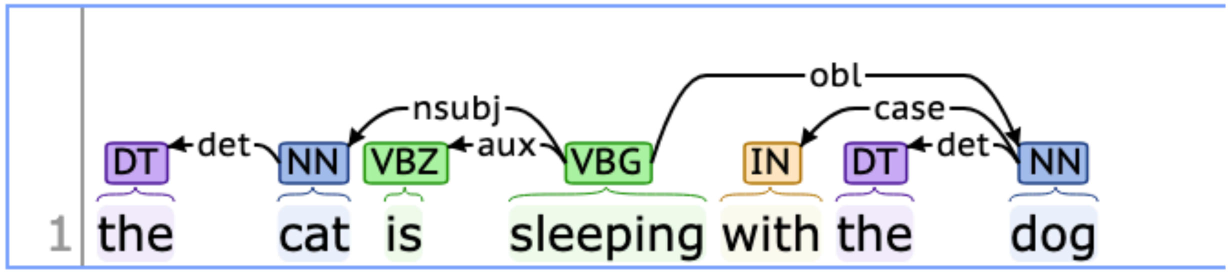


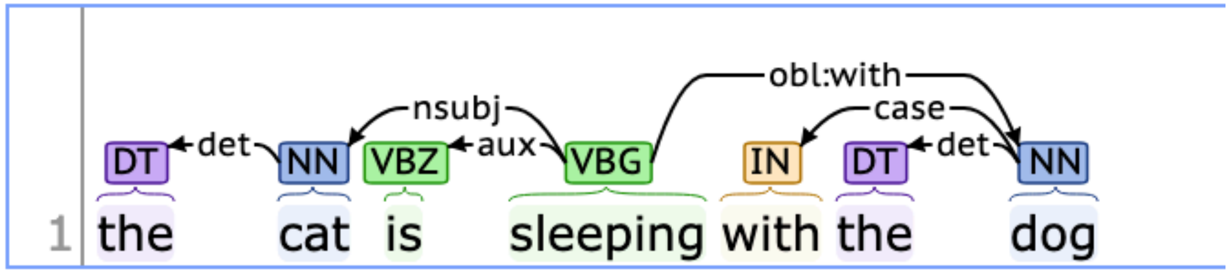
Dependency Trees

- **CoreNLP**: when you enter a sentence, the PoS tagging, NER and dependency parsing (in classical and enhanced form) are applied and the tree in the graphic format typical of UD documentation generated https://corenlp.run/


1 the cat is sleeping with the dog


1 the cat is sleeping with the dog


1 the cat is sleeping with the dog


1 the cat is sleeping with the dog

Various

- **LinguaKit** provides different forms of analysis: https://linguakit.com/en/full-analysis