**Supplementary material**

**Clausal structure patterns and their extraction in the dependency treebank**

In this paper, eight dependency relation tags in total are involved, and they are: acl (participle clauses as postmodifiers), acl:relcl (finite relative clauses), advcl (finite adverbial clauses), ccomp (clausal complement with internal subject), csubj (clausal subject), extraposed (extraposed clauses), prept2 (infinitive *to*-clause), xcomp (clausal complement with external subject).

In addition to the dependency relation tags, several part of speech tags of the word (dependent) or its governor are sometimes combined with the dependency relation tag to extract the target clausal structure, and they are: VB (base form of the verb), VBD (past tense of the verb), VBG (gerund/ present participle of the verb), VBN (past participle of the verb), VBP (non-third person singular, present tense of the verb), VBZ (third person singular, present tense of the verb), JJ (adjective), and NN / NNS (noun/ nouns). The following lists the 12 clausal complexity features and the examples of how they are extracted from our dependency treebank are presented.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labels** | | | | | | | | | | **Structural patterns and their extraction in the treebank** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **v1fcomp** | | | | | | | **Finite complement clauses (*that* and *wh-*) controlled by extremely common verbs (e.g., *think*, *know*, *say*)**  The extremely common verbs controlling *that* finite complement clauses are: *think*, *say*, *know*, *see*, *find*, *believe*, *feel*, *suggest*, *show* (Biber et al., 1999, pp. 663)  The extremely common verbs controlling *wh-* finite complement clauses are: *know*, *see*, *tell*, *wonder*, *ask*, *understand* (Biber et al., 1999, pp. 686)  This clausal structure occurs in the following four patterns: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | 1) *that/ wh-clause + V* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | See the example sentence in *v2fcomp*. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | 2) V + *that*/ *wh-*clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | *He said* ***that nine indictments have been returned publicly in such investigations***. (pp. 661) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | word | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | |
|  | | | | | | | | |  | | returned | | | | | | | | | | | | | | | | said | | | | | | | | | | | | | | | VBD | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | | |
|  | | | | | | | | | 3) V + NP + *that*/ *wh-*clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | See the example sentence in *v2fcomp* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | 4) V + to NP + *that* clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *I suggested to Miss Kerrison* ***that she sit down on the chair and***  ***wait.*** (pp. 662) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | word | | | | | | governor | | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | |
|  | | | | | | | | |  | | sit | | | | | | suggested | | | | | | | | | | | | | | | | | | | VBD | | | | | | | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | | |
| **v2fcomp** | | | | | | | **Finite complement clauses controlled by a wider set of verbs**  The controlling verbs are verbs other than the above-listed extremely common verbs controlling finite complement clauses  This clausal structure also occurs in the following five patterns:  1) *that*/ *wh-*clause + V  ***That they are already struggling*** *troubles Graham Taylor.* (pp.659) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | word | | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | |
|  | | | | | | | | |  | | struggling | | | | | | | | | | | | | | | | | troubles | | | | | | | | | | | | | | | | | | VBZ | | | | | | | | | | | | | | | | | | csubj | | | | | | |
|  | | | | | | | | | 2) V + *that*/ *wh-*clause  See the example sentence in *v1fcomp*.  3) V + NP + *that*/ *wh-*clause  *I persuaded myself* ***that something awful might happen***. (pp. 661) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | word | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | |
|  | | | | | | | | |  | | happen | | | | | | | | | | | | | persuaded | | | | | | | | | | | | | | | | | | VBD | | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | |
|  | | | | | | | | | 4) V + to NP + *that* clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | See the example sentence in *v1fcomp*.  5) V + prep + *wh*-clause  *It depends whether you actually think about* ***what you’re seeing and what you’re reading***. (pp.685) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | word | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | |
|  | | seeing | | | | | | | | | | | | | | think | | | | | | | | | | | | | | | | | | VBP | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | |
| **fadvcl** | | | | | | | | **Finite adverbial clauses** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | ***When the units are sold****, the city expects to recover all but its $825,000 initial investment.* (pp. 818) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | word | | | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | |
|  | | | | | | | | |  | | | sold | | | | | | | | | | | | | | | | | | expects | | | | | | | | | | | | | | | | | | | | | | | | | | | | advcl | | | | | | | | | | | | |
| **v1nfcomp** | | | | | | | | **Nonfinite complement clauses controlled by common verbs (especially *want*)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | The common verbs controlling *to*-clauses are: *want*, *try*, *seem*, *like*, *begin*, *tend*, *attempt* (Biber et al., 1999, pp. 699) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | The common verbs controlling *ing*-clauses are: *keep*, *start*, *see*, *go*, *stop*, *begin* (Biber et al., 1999, 741) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | This clausal structure occurs in the following three patterns: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | 1) *To*-/ -*ing* clause + V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | See the example sentences in *v2nfcomp* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | 2) V + *to*-/ -*ing* clause  *He began* ***paging through old newspapers***. (pp. 740) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | | | | | | | **part of speech** | | | | | | | | | governor | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** |
|  | | | | paging | | | | | | | | | | | | | | | | VBG | | | | | | | | | began | | | | | | | | | | | | | VBD | | | | | | | | | | | | | | | | | | xcomp |
|  | | | | | | | | | 3) V + NP + *to*- /-*ing* clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | See the example sentences in *v2nfcomp* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | \*Note: Exclude bare infinitive clauses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **v2nfcomp** | | | | | | | **Nonfinite complement clauses controlled by a wider set of verbs** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | This clausal structure occurs in the following three patterns: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | 1) *To*-/ -*ing* clause + V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | ***Walking the back nine*** *confirms what all the fuss is about.* (pp. 659) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | word | | | | | | | | | | | | | | | | | | **part of speech** | | | | | | | | | | | governor | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | **dependency relation** | | | |
|  | | | | | | | | |  | | Walking | | | | | | | | | | | | | | | | | | VBG | | | | | | | | | | | confirms | | | | | | | | | | | VBZ | | | | | | | | | | | | | | | | csubj | | | |
|  | | | | | | | | | *However,* ***to say all other courses are impossible*** *is not to say this course is possible.* (pp. 659) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | governor | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | to | | | | | | | is | | | | | | | | | | | | | | VBZ | | | | | | | | | | | | | | | | | | | | | | | | prept2 | | | | | | | | | | | | |
|  | | | | | | | | | 2) V + *to*-/ -*ing* clause  See the example sentences in *v1nfcomp*.  3) V + NP + *to*-/ -*ing* clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *Don’t be surprised to find* ***me sitting on the tee in the lotus position****.* (pp. 740) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | | word | | | | | | | **part of speech** | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** | | | |
|  | | | | | sitting | | | | | | | VBG | | | | | | | | | | | find | | | | | | | | | | | | | | | | | VB | | | | | | | | | | | | | | | | | | ccomp | | | |
|  | | | | | | | | | *I told grandma* ***to make me and Tim some more****. (pp.695)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | governor | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | |
|  | | | | to | | | | | | | told | | | | | | | | | | | | | | VBD | | | | | | | | | | | | | | | | | | | | | | | | prept2 | | | | | | | | | | | | |
|  | | | | | | | | | \*Note: Exclude bare infinitive clauses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **adjfcomp** | | | | | | | **Finite complement clauses controlled by adjectives** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | This clausal structure occurs in the following two positions:  1) in pre-predicate position  ***That it would be unpopular with colleges or students*** *was obvious.* (pp.660) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | governor | | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | |
|  | | | | be | | | | | | obvious | | | | | | | | | | | | | | | | | | | JJ | | | | | | | | | | | | | | | | | | | | | | | | | csubj | | | | | | | | |
|  | | | | | | | | | 2) in post-predicate position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *I’m glad* ***that I found you again****.* (pp.671) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | | | word | | | | governor | | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | |
|  | | | | | | found | | | | glad | | | | | | | | | | | | | | | | | | | JJ | | | | | | | | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | |
| **frelcl** | | | | | | | ***that* relative clauses, especially with animate head nouns**  Relative clauses with zero relativizer are not included. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *She came up with all sorts of things* ***that she would like for the new development.* (pp. 612)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | |
|  | | | | like | | | | | | | | | | | | | | | | | | | things | | | | | | | | | | | | | | | | | | | | | | | | | | acl:relcl | | | | | | | | | | | | |
| **adjnfcomp** | | | | | | | | | **Nonfinite complement clauses controlled by adjectives** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | This clausal structure occurs in the following two positions:  1) in the pre-predicate position, occurring in one pattern:  *To*-/ -*ing* clause + V + Adj | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | ***To attempt to forecast the effects of changing regulation on a national scale*** *is very difficult.* (pp. 660) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | |
|  | | | | to | | | | | | | | | | difficult | | | | | | | | | | | | | | | | | | JJ | | | | | | | | | | | | | | | | | | prept2 | | | | | | | | | | | |
|  | | | | | | | | | ***Her coming*** *was quite useless*. (pp. 660) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | | | | **part of speech** | | | | | | | | governor | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | **dependency relation** | | | |
|  | | | | coming | | | | | | | | | | | | | VBG | | | | | | | | useless | | | | | | | | | | | | | | | | JJ | | | | | | | | | | | | | | | | | csubj | | | |
|  | | | | | | | | | 2) in the post-predicate position, occurring in two patterns:  V+ Adj + *To*-/ -*ing* clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *Millar was obstinately determined* ***to change the content of education.*** (pp. 716) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | |
|  | | | | to | | | | | | | | | | determined | | | | | | | | | | | | | | | | | | | | | | | JJ | | | | | | | | | | | | | | | | | | prept2 | | | | | | |
|  | | | | | | | | | V + Adj + prep + -*ing* clause | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *The Prime Minister appeared confident* ***of winning an overall majority.*** *(pp. 660)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | |
|  | | | | winning | | | | | | | | | | | | | | confident | | | | | | | | | | | | | | | | | | | JJ | | | | | | | | | | | | | | | | | | | xcomp | | | | | |
| **extracomp** | | | | | | | | **Extraposed complement clauses** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | *that* clauses, *wh*-clauses, *to*-clauses, and *ing*-clauses can all be extraposed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *Maybe it annoys them* ***that you don’t fit their image of a fairy princess***. (pp. 676) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | | | | | | | | |
|  | | | | fit | | | | | | | | | | | | | | | | | | | annoys | | | | | | | | | | | | | | | | | | | extraposed | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | *It takes resources* ***to counteract pollution****.* (pp. 714) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | |  | | | | word | | | | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | | | | | | | | |
|  | | | | to | | | | | | | | | | | | | | | | | | | takes | | | | | | | | | | | | | | | | | | | prept2 | | | | | | | | | | | | | | | | | | | |
| **nfrelcl** | | | | **Nonfinite relative clauses** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | *to*-clause, *ing*-clause, *ed*-clause can all function as postmodifiers modifying the preceding head noun | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | *I haven’t got friends* ***to beat him up though***. (pp. 630) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | |  | | | | | word | | | | | | | | governor | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | | | |
|  | | | | | to | | | | | | | | friends | | | | | | | | | | | | | | NNS | | | | | | | | | | | | | | | | | | | | | prept2 | | | | | | | | | | | | | | |
|  | | | | | | | | *A military jeep* ***travelling down Beach Road at high speed*** *struck a youth crossing the street.* (pp. 630) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | |  | | | | | | | word | | | | | | | | | | | | | | **part of speech of the word** | | | | | | | | | | | | | | | | governor | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | **dependency relation** | | |
|  | | | | | | | travelling | | | | | | | | | | | | | | VBG | | | | | | | | | | | | | | | | jeep | | | | | | | | **NN** | | | | | | | | | | | | | | | acl | | |
|  | | | | | | | | *It can be derived using the assumptions* ***given above***. (pp.631) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | |  | | | | | | | word | | | | | | | **part of speech of the word** | | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | **dependency relation** | | |
|  | | | | | | | given | | | | | | | VBN | | | | | | | | | | | | | | | | | assumptions | | | | | | | | | | | | | | | NNS | | | | | | | | | | | | | | acl | | |
| **ppnfncomp** | | | | | | | | **Preposition + nonfinite complement clauses** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | In terms of the form, the nonfinite complement clauses in this structure are *ing*-clauses. In addition, there is a head noun preceding the preposition, and the preposition is always *of*. Functionally, these *ing*-clauses express the complete content of the preceding head noun. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | *He had no intention* ***of singing at anyone’s twenty-first birthday***. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | |  | | | | | word | | | | | | | | **part of speech of the word** | | | | | | | | | | | | | | | | | | | | governor | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | **dependency relation** | | | |
|  | | | | | |  | | | | | singing | | | | | | | | VBG | | | | | | | | | | | | | | | | | | | | intention | | | | | | | | | | | | | | | NN | | | | | | | | | | | | | | xcomp | | | |
| **ncomp** | | **Complement clauses controlled by nouns** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | In this structure, the noun-controlled complement clauses also express the complete content of the preceding head noun. The complement clauses here are usually *that*-clauses, *wh*-clauses, and *to*-clauses, as noun-controlled *ing*-clauses are often in the above-mentioned form of “head noun + of + *ing*-clauses”. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | This clausal structure can occur in the following five patterns:  1) N+ *that*-clauses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | *There were also rumors* ***that Ford had now taken its stake up to the maximum 15 per cent allowed***. (pp. 645) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | word | | | | | | | governor | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | | | | | |
|  | | | | taken | | | | | | | rumors | | | | | | | | | | | | | | | NNS | | | | | | | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | | | | | | | | |
|  | | | | | | | 2) N + *wh*-clauses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | *There was no question* ***who was the star***. (pp. 645) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | word | | | | | | | governor | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | | | | | |
|  | | | | was | | | | | | | question | | | | | | | | | | | | | | | NN | | | | | | | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | | | | | | | | |
|  | | | | | | | 3) N + *of* + *wh*-clauses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | *We have only the most general notion* ***of how the first continents formed***. (pp. 646) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | word | | | | | | | | | governor | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | | | |
|  | | | | formed | | | | | | | | | notion | | | | | | | | | | | | | | | NN | | | | | | | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | | | | | | |
|  | | | | | | | 4) N + *as to* + *wh*-clauses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | *Recent studies have posed the question* ***as to whether there is a link between film violence and real violence***. (pp. 646) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | word | | | | | | | | | governor | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | | | | | | |
|  | | | | is | | | | | | | | | question | | | | | | | | | | | | | | | NN | | | | | | | | | | | | | | | | | | | | | | | | ccomp | | | | | | | | | | | | | | |
|  | | | | | | | 5) N + *to*-clauses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | *You’ve been given permission* ***to wear them***. (pp. 645) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | word | | | | | | | | | governor | | | | | | | | | | | | | | | | | | | | | | | | | | **part of speech of the governor** | | | | | | | | | | | | | | | | | | **dependency relation** | | | | | | | | | |
|  | | | | to | | | | | | | | | permission | | | | | | | | | | | | | | | | | | | | | | | | | | NN | | | | | | | | | | | | | | | | | | prept2 | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |