

| ID | Elements of Interest | Breakdowns | input | Typed dependencies | Extraction output | Versions |
|--|---|--|---|--|---|--|
| R1 | Subject | | | → nsubj(X, Y) → nsubjpass (X, Y) | Subject = Y | |
| R2 | Verb | | | → nsubj(X, Y) → nsubjpass (X, Y) → obj(X, Y) → dobj(X, Y) → idobj(X, Y) | Verb = X | |
| R3 | Verb Arguments | | X: is a verb Z: is not Keyword | → obj(X, Y) → dobj(X, Y) → idobj(X, Y) → case(Y, Z), nmod(X, Y) | Object = Y Preposition = Z | One ore more object. Each with optional preceded preposition |
| R4 | Predicate | Subj | | R1 | | subj+verb+verbArgs |
| | | Verb | | R2 | | subj+verb |
| | | verbArgs | | R3 | | verb+ verbArgs |
| Core-segment Signature: [Head][Subj][Verb][VerbArgs] | | | | | | |
| R5 | dependent-Clauses {Condition,Trigger,ReqScope} | Head | X:{if when while before until after} Y: verb | Head: keyword → mark(Y, X) → advmod(Z, X) → case(Z, X),nmod(Y, Z) | Head= X | Head Keywords resulted from the unification process • Condition: {if} • Trigger: {when} • ReqScope: {while, before, until, after} |
| | | Predicate | | R4 | | |
| R6 | Independent clauses {Action,factual-rule} | Predicate | | R4 | | |
| Hidden-constraint Signature: [Rel-Noun][Rel-Head][Subj][Verb][VerbArgs] | | | | | | |
| R7 | Rel clauses {hiddenConstraint} | rel Noun | X: {whose that} Y: is verb | → dep(Y, X), nsubj(Y,V), dep(Z, Y) → nsubj(Y, X), acl:relcl(Z, Y) | relative head = X relative noun = Z Property = V | Property related - relative clause • the signal whose index is larger than 2 shall be set to 5. |
| | | rel head | | | | |
| | | Property | | | | |
| Verb | | R2 | | | | |
| | | verbArgs | | R3 | | |
| Time Signature: [Preposition][Quantification][Value][Unit] | | | | | | |
| R8 | Time | Preposition+ quantification + value + unit | | | | |
| | | Preposition | X: is not keyword Y:{every} | → case(U, X), nummod(U, V) → dep(V, P1), mwe(P1, P2), nummod(U, V) -> X:P1+P2 → det(U, Y), nummod(U, V). → advmod(U, Y), nummod(U, V). | Preposition= X Y Value = V Unit= U | |
| | | value | | | | |
| | | unit | | | | |
| | | Quantification | V: Value U: Unit | → case(JJS, at), nmod:npmod(V, JJS) → advmod(V, JJR), mwe(Adj, than) → advmod(V, JJR), mwe(Adj, than), cc(V, or), advmod(V, equal) → cc(U, or), conj(U, JJR) → cc(JJR, or), nummod(U, JJR) | Quantification = (at+ JJS) (JJR + than) (JJR + than + or + equal) (or+JJR) | Quantification: • at+ JJS → at least • JJR + than → less than • JJR + than + or + equal → less than or equal • Or +JJR → or more (e.g., 3 or more) |