

Building the Gold Standard for GRs

Description of the task

These sentences come from the final practical of L95. As the goal of the task is to compare the results of different parsers against the “gold standard”, we create this shared document, aiming to split the task of creating the gold standard for Grammar Relations to everyone in the class.

Please contribute to this document by writing verified Grammar Relations below each sentence.

Sentences

(1) The old car broke down in the car park.

Number of GRs: 8

```
(|ncmod|      _      |car:2|      |old|)
(|ncsubj|     |broke| |car:2|      _ )
(|ncmod|      |prt|   |broke:2|    |down|)
(|ncmod|      _      |broke|      |in|)
(|dobj|       |in|    |park|)
(|det|        |car:2| |the:0|)
(|det|        |park| |the:6|)
(|ncmod|      _      |park|       |car:7|)
```

(2) At least two men broke in and stole my TV.

```
(|dobj| |At:1| |least:2|)
(|ncmod| _ |two:3| |least:2|)
(|ncmod| |num| |men:4| |two:3|)
(|ncsubj| |and:7| |men:4| _ )
(|conj| |and:7| |broke:5|)
(|ncmod| |prt| |broke:5| |in:6|)
(|conj| |and:7| |stole:8|)
(|dobj| |stole:8| |TV:10|)
(|det| |TV:10| |my:9|)
```

(3) The horses were broken in and ridden in two weeks.

```
(|det| |horses:2| |The:1|)
(|ncsubj| |and:6| |horses:2| obj)
(|aux| |and:6| |were:3|)
(|conj| |and:6| |broken:4|)
```

(|conj| |and:6| |ridden:7|)
 (|ncmod| prt |broken:4| |in:5|)
 (|ncmod| _ |and:6| |in:8|)
 (|dobj| |in:8| |weeks:10|)
 (|ncmod| num |weeks:10| |two:9|)
 (|passive| |broken:4|) (4)
 (|passive| |ridden:7|) (4)

- (4) Kim and Sandy both broke up with their partners.
 (5) The horse which Kim sometimes rides is more bad tempered than mine.
 (6) The horse as well as the rabbits which we wanted to eat have escaped.

(7) It was my aunt's car which we sold at auction last year in February.

(|ncsubj| |was:2| |lt:1| _)
 (|xcomp| _ |was:2| |car:5|)
 (|det| |aunt:4| |my:3|)
 (|ncmod| |poss| |car:5| |aunt:4|)
 (|cmod| _ |car:5| |sold:8|)
 (|dobj| |sold:8| |which:6|)
 (|ncsubj| |sold:8| |we:7| _)
 (|ncmod| _ |sold:8| |at:9|)
 (|dobj| |at:9| |auction:10|)
 (|ncmod| _ |sold:8| |year:12|)
 (|ncmod| _ |year:12| |last:11|)
 (|ncmod| _ |sold:8| |in:13|)
 (|dobj| |in:13| |February:14|)

(8) The only rabbit that I ever liked was eaten by my parents one summer.

(|det| |rabbit:3| |The:1|)
 (|ncmod| _ |rabbit:3| |only:2|)
 (|cmod| |that:4| |rabbit:3| |liked:7|)
 (|ncsubj| |liked:7| |I:5| _)
 (|dobj| |liked:7| |rabbit:3|)
 (|ncmod| _ |liked:7| |ever:6|)
 (|ncsubj| |eaten:9| |rabbit:3| |obj|)
 (|aux| |eaten:9| |was:8|)
 (|passive| |eaten:9|)
 (|ncmod| _ |eaten:9| |by:10|)
 (|dobj| |by:10| |parents:12|)
 (|det| |parents:12| |my:11|)
 (|ncmod| _ |eaten:9| |summer:14|)
 (|det| |summer:14| |one:13|)

(9) The veterans who I thought that we would meet at the reunion were dead.

(det veterans:2 the:1)
(cmod _ veterans:2 thought:5)
(dobj thought:5 who:3)
(ncsubj thought:5 I:4 _)
(ccomp that thought:5 meet:9)
(aux meet:9 would:8)
(ncsubj meet:9 we:8 _)
(ncmod _ meet:9 at:10)
(dobj at:10 reunion:8)
(det reunion:12 the:11)
(ncsubj were:13 veterans:2 _)
(xcomp _ were:13 dead:14)

(10) Natural disasters – storms, flooding, hurricanes – occur infrequently but cause devastation that strains resources to breaking point.

(|ncmod| _ |disasters:2| |Natural:1|)
(|ta| bal |disasters:2| |,:7|)
(|conj| |,:7| |storms:4|)
(|conj| |,:7| |flooding:6|)
(|conj| |,:7| |hurricanes:8|)
(|ncsubj| |but:12| |disasters:2| _)
(|ncmod| _ |occur:10| |infrequently:11|)
(|conj| |but:12| |occur:10|)
(|conj| |but:12| |cause:13|)
(|dobj| |cause:13| |devastation:14|)
(|cmod| that |devastation:14| |strains:16|)
(|dobj| |strains:16| |resources:17|)
(|ncmod| |strains:16| |to:18|)
(|dobj| |to:18| |point:20|)
(|ncmod| _ |point:20| |breaking:19|)

(11) Letters delivered on time by old-fashioned means are increasingly rare, so it is as well that that is not the only option available.

(12) It won't rain but there might be snow on high ground if the temperature stays about the same over the next 24 hours.

(|ncsubj| |rain:3| |It:1| _)
(|aux| |rain:3| |wo:2|)
(|ncmod| _ |rain:3| |n't:2|)
(|conj| |but:4| |rain:3|)
(|conj| |but:4| |be:7|)
(|ncsubj| |be:7| |there:5| _)
(|aux| |be:7| |might:6|)
(|xcomp| _ |be:7| |snow:8|)

```
(|ncmod| _ |snow:8| |on:9|)
(|dobj| |on:9| |ground:11|)
(|ncmod| _ |ground:11| |high:10|)
(|cmod| _ |be:7| |if:12|)
(|ccomp| _ |if:12| |stays:15|)
(|ncsubj| |stays:15| |temperature:14| _)
(|det| |temperature:14| |the:13|)
(|xcomp| _ |stays:15| |same:18|)
(|ncmod| _ |same:18| |about:16|)
(|det| |same:18| |the:17|)
(|ncmod| _ |stays:15| |over:19|)
(|dobj| |over:19| |hours:24|)
(|det| |hours:24| |the:20|)
(|ncmod| |num| |hours:24| |24:23|)
(|ncmod| _ |hours:24| |next:3|)
```

(13) The long and lonely road to redemption begins with self-reflection: the need to delve inwards to deconstruct layers of psychological obfuscation.

(14) My wildest dream is to build a POS tagger which processes 10K words per second and uses only 1MB of RAM, but it may prove too hard.

```
(|det| |dream:3| |My:1|)
(|ncmod| _ |dream:3| |wildest:2|)
(|xcomp| |to| |is:4| |build:6|)
(|ncsubj| |is:4| |dream:3| _)
(|dobj| |build:6| |tagger:9|)
(|det| |tagger:9| |a:7|)
(|ncmod| _ |tagger:9| |POS:8|)
(|cmod| _ |tagger:9| |and:16|)
(|ncsubj| |and:16| |which:10| _)
(|conj| |and:16| |processes:11|)
(|conj| |and:16| |uses:17|)
(|dobj| |processes:11| |words:13|)
(|ncmod| |num| |words:13| |10K:12|)
(|ncmod| _ |processes:11| |per:14|)
(|dobj| |per:14| |second:15|)
(|dobj| |uses:17| |MB:20|)
(|ncmod| |num| |MB:20| |1:19|)
(|ncmod| _ |MB:20| |only:18|)
(|iobj| |MB:20| |of:21|)
(|dobj| |of:21| |RAM:22|)
(|conj| |but:23| |is:4|)
(|conj| |but:23| |prove:26|)
(|ncsubj| |prove:26| |it:24|)
(|aux| |prove:26| |may:25|)
(|xcomp| _ |prove:26| |hard:28|)
```

(|ncmod| _ |hard:28| |too:27|)

***** At least half of your chosen sentences should be selected from here onwards *****

(15) English also has many words of more or less unique function, including interjections (oh, ah), negatives (no, not), politeness markers (please, thank you), and the existential 'there' (there are horses but not unicorns) among others.

(|ncsubj| |has:3| |English:1| _)
(|ncmod| _ |has:3| |also:2|)
(|dobj| |has:3| |words:5|)
(|ncmod| _ |words:5| |many:4|)
(|ncmod| _ |words:5| |of:6|)
(|dobj| |of:6| |function:11|)
(|conj| |or:8| |more:7|)
(|conj| |or:8| |less:9|)
(|ncmod| _ |unique:10| |or:8|)
(|ncmod| _ |function:11| |unique:10|)
(|ncmod| _ |words:5| |including:12|)
(|dobj| |including:12| |and:24|)
(|conj| |comma| |oh:14|)
(|conj| |comma| |ah:15|)
(|ta| end |words:5| |including:12|)
(|conj| |comma| |no:17|)
(|conj| |comma| |not:18|)
(|ta| |bracket| |negatives:16| |comma|)
(|ncmod| _ |markers:20| |politeness:19|)
(|conj| |comma| |please:21|)
(|conj| |comma| |thank:22|)
(|ta| |bracket| |markers:20| |comma|)
(|dobj| |thank:22| |you:23|)
(|conj| |and:24| |interjections:13|)
(|conj| |and:24| |negatives:16|)
(|conj| |and:24| |markers:20|)
(|conj| |and:24| |'there':27|)
(|ncmod| _ |'there':27| |existential:26|)
(|det| |'there':27| |the:25|)
(|ta| |parenthesis| |'there':27| |are:29|)
(|ncsubj| |are:29| |there:28| _)
(|xcomp| _ |are:29| |but:31|)
(|conj| |but:31| |horses:30|)
(|conj| |but:31| |unicorns:33|)
(|ncmod| _ |unicorns:33| |not:32|)
(|ncmod| _ |and:24| |among:34|)
(|dobj| |among:34| |others:35|)

(16) Making these decisions requires sophisticated knowledge of syntax; tagging manuals (Santorini,1990) give various heuristics that can help human coders make these decisions and that can also provide useful features for automatic taggers.

```
(|ncsubj| |requires:4| |Making:1| |_)
(|dobj| |Making:1| |decisions:3|)
(|det| |decisions:3| |these:2|)
(|dobj| |requires:4| |knowledge:6|)
(|ncmod| _ |knowledge:6| |sophisticated:5|)
(|iobj| |knowledge:6| |of:7|)
(|dobj| |of:7| |syntax:8|)
(|conj| |;| |requires:4|)
(|conj| |;| |give:13|)
(|ncmod| _ |manuals:10| |tagging:9|)
(|ta| |bracket| |manuals:10| |,|)
(|conj| |,| |Santorini:11|)
(|conj| |,| |1990:12|)
(|ncsubj| |give:13| |manuals:10| |_)
(|dobj| |give:13| |heuristics:15|)
(|ncmod| _ |heuristics:15| |various:14|)
(|cmod| |that:16| |heuristics:15| |and:24|)
(|ncsubj| |and:24| |heuristics:15|)
(|conj| |and:24| |help:18|)
(|conj| |and:24| |provide:28|)
(|aux| |help:18| |can:17|)
(|dobj| |help:18| |coders:20|)
(|ncmod| _ |coders:20| |human:19|)
(|xcomp| _ |help:18| |make:21|)
(|dobj| |make:21| |decisions:23|)
(|det| |decisions:23| |these:22|)
(|aux| |provide:28| |can:26|)
(|ncmod| _ |provide:28| |also:27|)
(|dobj| |provide:28| |features:30|)
(|ncmod| _ |features:30| |useful:29|)
(|ncmod| _ |features:30| |for:31|)
(|dobj| |for:31| |taggers:33|)
(|ncmod| _ |taggers:33| |automatic:32|)
```

(17) The Penn Treebank tagset was culled from the original 87-tag tagset for the Brown Corpus. For example the original Brown and C5 tagsets include a separate tag for each of the different forms of the verbs do (e.g. C5 tag VDD for did and VDG tag for doing), be and have.

```
(|det| |tagset:4| |The:1|)
(|ncmod| _ |tagset:4| |Treebank:3|)
```

(|ncmod| _ |Treebank:3| |Penn:2|)
(|ncsubj| |culled:6| |tagset:4| |obj|)
(|aux| |culled:6| |was:5|)
(|passive| |culled:6|)
(|ncmod| |prt| |culled:6| |from:7|)
(|dobj| |from:7| |tagset:11|)
(|det| |tagset:11| |the:8|)
(|ncmod| _ |tagset:11| |original:9|)
(|ncmod| _ |tagset:11| |87-tag:10|)
(|ncmod| _ |tagset:11| |for:12|)
(|dobj| |for:12| |Corpus:15|)
(|det| |Corpus:15| |the:13|)
(|ncmod| _ |Corpus:15| |Brown:14|)

(|ncmod| _ |include:9| |For:1|)
(|dobj| |For:1| |example:2|)
(|ncsubj| |include:9| |tagsets:8|)
(|det| |tagsets:9| |the:3|)
(|ncmod| _ |tagsets:8| |original:4|)
(|ncmod| _ |tagsets:8| |and:6|)
(|conj| |and:6| |Brown:5|)
(|conj| |and:6| |C5:8|)
(|dobj| |include:9| |tag:12|)
(|det| |tag:12| |a:10|)
(|ncmod| _ |tag:12| |separate:11|)
(|ncmod| _ |tag:12| |for:13|)
(|dobj| |for:13| |each:14|)
(|ncmod| _ |each:14| |of:15|)
(|dobj| |of:15| |forms:18|)
(|det| |forms:18| |the:16|)
(|ncmod| _ |forms:18| |different:17|)
(|iobj| |forms:18| |of:19|)
(|dobj| |of:19| |verbs:21|)
(|ncmod| _ |verbs:21| |and:35|)
(|det| |verbs:21| |the:20|)
(|conj| |and:35| |do:22|)
(|conj| |and:35| |be:34|)
(|conj| |and:35| |have:36|)
(|ta| |brack| |include:10| |and:29|)
(|conj| |and:29| |VDD:26|)
(|conj| |and:29| |tag:31|)
(|ncmod| _ |and:29| |e.g.:23|)
(|ncmod| _ |VDD:26| |tag:25|)
(|ncmod| _ |tag:25| |C5:24|)
(|ncmod| _ |VDD:26| |for:27|)

```
(|dobj| |for:27| |did:28|)
(|ncmod| _ |tag:31| |VDG:30|)
(|ncmod| _ |tag:31| |for:32|)
(|dobj| |for:32| |doing:33|)
```

(18) The slightly simplified version of the Viterbi algorithm that we present takes as input a single HMM and a sequence of observed words $O = (o_1, o_2, \dots, o_T)$ and returns the most probable state/tag sequence $Q = (q_1, q_2, \dots, q_T)$ together with its probability.

```
(|det| |version:4| |The:1|)
(|ncsubj| |simplified:3| |version:4| |obj|)
(|passive| |simplified:3|)
(|ncmod| _ |simplified:3| |slightly:2|)
(|iobj| |version:4| |of:5|)
(|dobj| |of:5| |algorithm:8|)
(|det| |algorithm:8| |the:6|)
(|ncmod| _ |algorithm:8| |Viterbi:7|)
(|cmod| |that:9| |version:4| |present:11|)
(|dobj| |present:11| |version:4|)
(|ncsubj| |present:11| |we:10| _ )
(|ncsubj| |and:25| |version:4|)
(|conj| |and:25| |takes:12|)
(|conj| |and:25| |returns:26|)
(|ncmod| _ |takes:12| |as:13|)
(|dobj| |as:13| |input:14|)
(|dobj| |takes:12| |and:18|)
(|conj| |and:18| |HMM:17|)
(|conj| |and:18| |sequence:20|)
(|det| |HMM:17| |a:15|)
(|ncmod| _ |HMM:17| |single:16|)
(|det| |sequence:20| |a:19|)
(|iobj| |sequence:20| |of:21|)
(|dobj| |of:21| |words:23|)
(|ncmod| _ |words:23| |observed:22|)
(|ncmod| _ |sequence:20| |O = (o1, o2, ...oT):24|)
(|dobj| |returns:26| |sequence:33|)
(|det| |sequence:33| |the:27|)
(|ncmod| _ |sequence:33| |/:31|)
(|conj| |/:31| |state:30|)
(|conj| |/:31| |tag:32|)
(|ncmod| _ |sequence:33| |probable:29|)
(|ncmod| _ |probable:29| |most:28|)
(|ncmod| _ |sequence:33| |O = (o1, o2, ...oT):34|)
(|ncmod| _ |sequence:33| |with:36|)
(|ncmod| _ |with:36| |together:35|)
(|dobj| |with:36| |probability:38|)
```


(|det| |probability:38| |its:37|)

(19) Thus the EM-trained “pure HMM” tagger is probably best suited to cases where no training data is available, for example, when tagging languages for which no data was previously hand-tagged.

(|conj| |Thus:1| |is:8|)
(|ncmod| |tagger:6| |EM-trained:3|)
(|det| |tagger:6| |the:2|)
(|ncmod| _ |tagger:6| |HMM:5|)
(|ncmod| _ |HMM:5| |pure:4|)
(|ncsubj| |suited:10| |tagger:6| |obj|)
(|aux| |suited:10| |is:7|)
(|passive| |suited:10|)
(|ncmod| _ |suited:10| |probably:8|)
(|ncmod| _ |suited:10| |best:9|)
(|obj| |suited:10| |to:11|)
(|dobj| |to:11| |cases:12|)
(|ncmod| _ |is:7| |where:13|)
(|cmod| _ |cases:12| |is:17|)
(|ncsubj| |is:17| |data:16|)
(|ncmod| _ |data:16| |training:15|)
(|det| |data:16| |no:14|)
(|xcomp| _ |is:17| |available:18|)
(|ta| |end| |is:17| |for:19|)
(|dobj| |for:19| |example:20|)
(|cmod| _ |is:17| |when:21|)
(|ccomp| |for:24| |tagging:22| |hand-tagged:30|)
(|dobj| |tagging:22| |languages:23|)
(|dobj| |for:24| |which:25|)
(|det| |data:27| |no:26|)
(|ncsubj| |hand-tagged:30| |data:27| |obj|)
(|aux| |hand-tagged:30| |was:28|)
(|passive| |hand-tagged:30|)
(|ncmod| _ |hand-tagged:30| |previsouly:29|)

(20) Coming home from very lonely places, all of us go a little mad: whether from great personal success, or just an all-night drive, we are the sole survivors of a world no one else has ever seen.

(|xcomp| _ |Coming:1| |home:2|)
(|ncmod| _ |Coming:1| |from:3|)
(|dobj| |from:3| |places:6|)
(|ncmod| _ |places:6| |lonely:5|)
(|ncmod| _ |lonely:5| |very:4|)

(|xmod| _ |go:10| |Coming:1|)
 (|ncsubj| |go:10| |all:7| _)
 (|ncmod| _ |all:7| |of:8|)
 (|dobj| |of:8| |us:9|)
 (|xcomp| _ |go:10| |mad:13|)
 (|ncmod| _ |mad:13| |little:12|)
 (|det| |little:12| |a:11|)
 (|ta| |colon| |go:10| |are:26|)
 (|ncmod| _ |are:26| |whether:14|)
 (|ncmod| _ |whether:14| |from:15|)
 (|conj| |or:19| |success:18|)
 (|conj| |or:19| |drive:23|)
 (|dobj| |from:15| |or:19|)
 (|ncmod| _ |success:18| |great:16|)
 (|ncmod| _ |success:18| |personal:17|)
 (|ncmod| _ |drive:23| |just:20|)
 (|ncmod| _ |drive:23| |all-night:22|)
 (|det| |drive:23| |an:21|)
 (|ncsubj| |are:26| |we:25| _)
 (|xcomp| _ |are:26| |survivors:29|)
 (|ncmod| _ |survivors:29| |sole:28|)
 (|det| |survivors:29| |the:27|)
 (|iobj| |survivors:29| |of:30|)
 (|dobj| |of:30| |world:32|)
 (|det| |world:32| |a:31|)
 (|cmod| _ |world:32| |seen:38|)
 (|dobj| |seen:38| |world:32|)
 (|ncsubj| |seen:38| |one:34| _)
 (|det| |one:34| |no:33|)
 (|ncmod| _ |one:34| |else:35|)
 (|aux| |seen:38| |has:36|)
 (|ncmod| _ |seen:38| |ever:37|)

(21) Skill without imagination is craftsmanship and gives us many useful objects such as wickerwork picnic baskets. Imagination without skill gives us modern art.

(|ncmod| _ |Skill:1| |without:2|)
 (|dobj| |without:2| |imagination:3|)
 (|ncsubj| |and:6| |Skill:1| _)
 (|conj| |and:6| |is:4|)
 (|conj| |and:6| |gives:7|)
 (|xcomp| _ |is:4| |craftsmanship:5|)
 (|dobj| |gives:7| |us:8|)
 (|obj2| |gives:7| |objects:11|)
 (|ncmod| _ |objects:11| |many:9|)
 (|ncmod| _ |objects:11| |useful:10|)

(|ncmod| _ |objects:11| |such:12|)
(|ncmod| _ |such:12| |as:13|)
(|dobj| |as:13| |baskets:16|)
(|ncmod| _ |baskets:16| |wickerwork:14|)
(|ncmod| _ |baskets:16| |wickerwork:15|)

(|ncmod| _ |Imagination:17| |without:18|)
(|dobj| |without:18| |skill:19|)
(|ncsubj| |gives:20| |Imagination:17| _)
(|dobj| |gives:20| |us:21|)
(|obj2| |gives:20| |art:23|)
(|ncmod| _ |art:23| |modern:22|)

(22) An MoD spokesman said: "Surveys of Astute have now been completed and she will proceed to Faslane under her own power. She is being escorted by tugs and HMS Shoreham."

(|ncsubj| |said:4| |spokesman:3| _)
(|det| |spokesman:3| |an:1|)
(|ncmod| _ |spokesman:3| |MoD:2|)
(|ta| |quote| |said:4| |\".)
(|conj| |\".) |and:12|)
(|conj| |\".) |escorted:23|)
(|ncsubj| |completed:11| |surveys:5| |obj|)
(|passive| |completed:11|)
(|ncmod| |surveys:5| |of:6|)
(|dobj| |of:6| |Astute:7|)
(|aux| |completed:11| |have:8|)
(|ncmod| _ |completed:11| |now:9|)
(|aux| |completed:11| |been:10|)
(|conj| |and:12| |completed:11|)
(|conj| |and:12| |proceed:15|)
(|ncsubj| |proceed:15| |she:13| _)
(|aux| |proceed:15| |will:14|)
(|ncmod| _ |proceed:15| |to:16|)
(|dobj| |to:16| |Faslane:17|)
(|ncmod| _ |proceed:15| |under:18|)
(|dobj| |under:18| |power:21|)
(|det| |power:21| |her:19|)
(|ncmod| _ |power:21| |own:20|)
(|ncsubj| |escorted:25| |she:22| |obj|)
(|aux| |escorted:25| |is:23|)
(|aux| |escorted:25| |being:24|)
(|ncmod| _ |escorted:25| |by:26|)
(|dobj| |by:26| |and:28|)
(|conj| |and:28| |tugs:27|)

(|conj| |and:28| |Shoreham:30|)
(|ncmod| _ |Shoreham:30| |HMS:29|)

(23) But far fewer people fully understand how the Media Lab operates, fits into MIT, and encourages such a creative environment; about half of the anniversary celebration's program focused on simply defining what the Media Lab is.

(|conj| |but:1| |understand:6|)
(|ncmod| _ |fewer:3| |far:2|)
(|ncmod| _ |people:4| |fewer:3|)
(|ncmod| _ |understand:6| |fully:5|)
(|ncsubj| |understand:6| |people:4| _)
(|xcomp| |how:7| |understand:6| |and:15|)
(|conj| |and:15| |operates:11|)
(|conj| |and:15| |fits:12|)
(|conj| |and:15| |encourages:16|)
(|ncsub| |operates:11| |Lab:10| _)
(|ncmod| _ |Lab:10| |Media:9|)
(|det| |Lab:10| |the:8|)
(|obj| |fits:12| |into:13|)
(|dobj| |into:13| |MIT:14|)
(|ncmod| _ |environment:20| |such:17|)
(|det| |environment:20| |a:18|)
(|ncmod| _ |environment:20| |creative:19|)
(|conj| \; |understand:6|)
(|conj| \; |focused:28|)
(|dobj| |about:21| |half:22|)
(|obj| |half:22| |of:23|)
(|dobj| |of:23| |program:27|)
(|det| |program:27| |the:24|)
(|ncmod| _ |celebration:26| |anniversary:25|)
(|ncmod| |poss| |program:27| |celebration:26|)
(|ncsubj| |focused:28| |program:27| _)
(|ncmod| |prt| |focused:28| |on:29|)
(|dobj| |on:29| |defining:31|)
(|ncmod| _ |defining:31| |simply:30|)
(|ccomp| _ |defining:31| |is:36|)
(|dobj| |defining:31| |what:32|)
(|ncsubj| |is:36| |Lab:35| _)
(|det| |Lab:35| |the:33|)
(|ncmod| _ |Lab:35| |Media:34|)

(24) Instead of constantly worrying about funding, the faculty and students can focus on their project, with the exception of sponsors' weeks, when they have to convince companies to

start or continue their support.

(|ncmod| _ |of:2| |instead:1|)
(|xcomp| _ |of:2| |worrying:4|)
(|ncmod| _ |worrying:4| |constantly:3|)
(|iobj| |worrying:4| |about:5|)
(|dobj| |about:5| |funding:6|)
(|ncmod| |ta| |worrying:4| |and:9|)
(|det| |and:9| |the:7|)
(|conj| |and:9| |faculty:8|)
(|conj| |and:9| |students:10|)
(|aux| |focus:12| |can:11|)
(|ncsubj| |focus:12| |and:9| _)
(|xcomp| |focus:12| |on:13|)
(|dobj| |on:13| |project:15|)
(|det| |project:15| |their:14|)
(|ta| |end| |focus:12| |with:16|)
(|dobj| |with:16| |exception:18|)
(|det| |exception:18| |the:17|)
(|iobj| |exception:18| |of:19|)
(|dobj| |of:19| |week:21|)
(|ncmod| |poss| |week:21| |sponsors:22|)
(|ccomp| _ |when:22| |have:24|)
(|cmod| _ |focus:12| |when:22|)
(|ncsubj| |have:24| |they:23| _)
(|xcomp| |to| |have:24| |convince:26|)
(|dobj| |convince:26| |companies:27|)
(|xmod| |to| |convince:26| |or:30|)
(|conj| |or:30| |start:29|)
(|conj| |or:30| |continue:31|)
(|dobj| |or:30| |support:33|)
(|det| |support:33| |their:32|)

(25) The doctors are warning that the NHS cannot make the £20bn of savings by 2014 that ministers expect, while simultaneously undertaking a huge reorganisation that will see England's 152 primary care trusts (PCTs) abolished and consortiums of GPs assume responsibility for the commissioning of services for patients.

(|ncsubj| |warning:4| |doctors:2| _)
(|det| |doctors:2| |The:1|)
(|aux| |warning:4| |are:3|)
(|ccomp| |that:5| |warning:4| |make:9|)
(|aux| |make:9| |cannot:8|)
(|ncsubj| |make:9| |NHS:7| _)
(|det| |NHS:7| |the:6|)

(|doj| |make:9| |£:11|)
 (|det| |£:11| |the:10|)
 (|ncmod| |num| |£:11| |20:12|)
 (|ncmod| |num| |20:12| |bn:13|)
 (|ioj| |£:11| |of:14|)
 (|doj| |of:14| |savings:15|)
 (|ncmod| _ |£:11| |by:16|)
 (|doj| |by:16| |2014:17|)
 (|cmod| |that:18| |£:11| |expect:20|)
 (|ncsubj| |expect:20| |ministers:19|)
 (|doj| |expect:20| |£:11|)
 (|xcomp| _ |make:9| |while:21|)
 (|xcomp| _ |while:21| |undertaking:23|)
 (|doj| |undertaking:23| |reorganisation:26|)
 (|det| |reorganisation:26| |a:24|)
 (|ncmod| _ |reorganisation:26| |huge:25|)
 (|cmod| |that:27| |reorganisation:26| |see:29|)
 (|aux| |see:29| |will:28|)
 (|ncsubj| _ |see:29| |reorganisation:26|)
 (|xcomp| |see:29| |and:37|)
 (|conj| |and:37| |abolished:36|)
 (|conj| |and:37| |assume:41|)
 (|ncsubj| |abolished:36| |trusts:34| |obj|)
 (|passive| |abolished:36|)
 (|ncmod| |poss| |trusts:34| |England:30|)
 (|ncmod| _ |trusts:34| |care:33|)
 (|ncmod| _ |care:33| |primary:32|)
 (|ta| |bracket| |trusts:34| |PCTs:35|)
 (|ncsubj| |assume:41| |consortiums:38| _)
 (|ioj| |consortiums:38| |of:39|)
 (|doj| |of:39| |GPs:40|)
 (|doj| |assume:41| |responsibility:42|)
 (|xmod| _ |responsibility:42| |for:43|)
 (|xcomp| _ |for:43| |commissioning:45|)
 (|det| |commissioning:45| |the:44|)
 (|ioj| |commissioning:45| |of:46|)
 (|doj| |of:46| |services:47|)
 (|ncmod| _ |services:47| |for:48|)
 (|doj| |for:48| |patients:49|)

Email partitives

Email from Paula about partitives (in response to a question I sent):

Hi Martyna,

This isn't straightforward because people don't agree on what partitives are. Below are a collection of thoughts from myself, Simone and Ted Briscoe.

Generally people use the term partitive for constructions as varied as 'a glass of water' to 'half of a beer' but the more professional linguist will use it for the subset with(out) 'of' that have restricted syntax, eg the embedded NP has to be definite: all (of) the/these/*any/*some men.

"All people eat"
(det people all)

vs.

"All the people ate"
(ncmod part people all)
(det people the)

The excerpts you give do look like partitives but Ted Briscoe made the decision that parser only marks the partitive when the 'of' is dropped. He says:

"The only place I used the part(itive) subtype of ncmod (I hope) is when 'of' is dropped: all/half the men = (ncmod part men all/half), i.e. in this case 'men' is head, whilst in the cases with 'of' the quantifier is the head."

So we get:

"All of the people ate"
(ncsubj ate all _)
(ncmod _ all of)
(dobj of people)
(det people the)

FWIW, in the object position the parser doesn't get the parse you'd expect as it's best parse:

"I ate all of the people"
(dobj ate all)
(iobj ate off)
(dobj of people)
(det people the)

But get's the expect construction further down the parse list:

(ncsubj ate I _)
(dobj ate all)
(ncmod _ all of)
(dobj of people)
(det people the)

This is because it is looking at the probability of the constructions without taking into account the specific lexical items (i.e. it has no understanding of semantics that can help push the correct parse to the top).

Paula

+my original email:
Hi Paula and Simone,

I have a question ahead of the L95 practical. I am reading through my feedback for Assignment 4 and I am confused about partitive constructions including "of".

My feedback says that I should have annotated "1MB of RAM" from sentence 3b) and "each of the different forms" from sentence 3c) as partitive constructions. However, upon inspecting the Gold Standard sentences, similar constructions don't seem to be treated as partitives there, e.g: in sentence 25, in the phrase "stock funds held 10.2% of assets", "%" was treated as the head of the NP, not "assets". Similarly in sentence 34, in the phrase "look for some of the better-known companies", "some" was treated as the head of the NP, not "companies".

There are many more sentences in the gold standards which include similar constructions, and none of them include partitive relations, so I'm a little bit confused at the moment and was wondering if you could maybe clarify this to me.

Best wishes,
Martyna