

PARGRAM Meeting

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On an LFG-XLE treatment of negation in Hungarian

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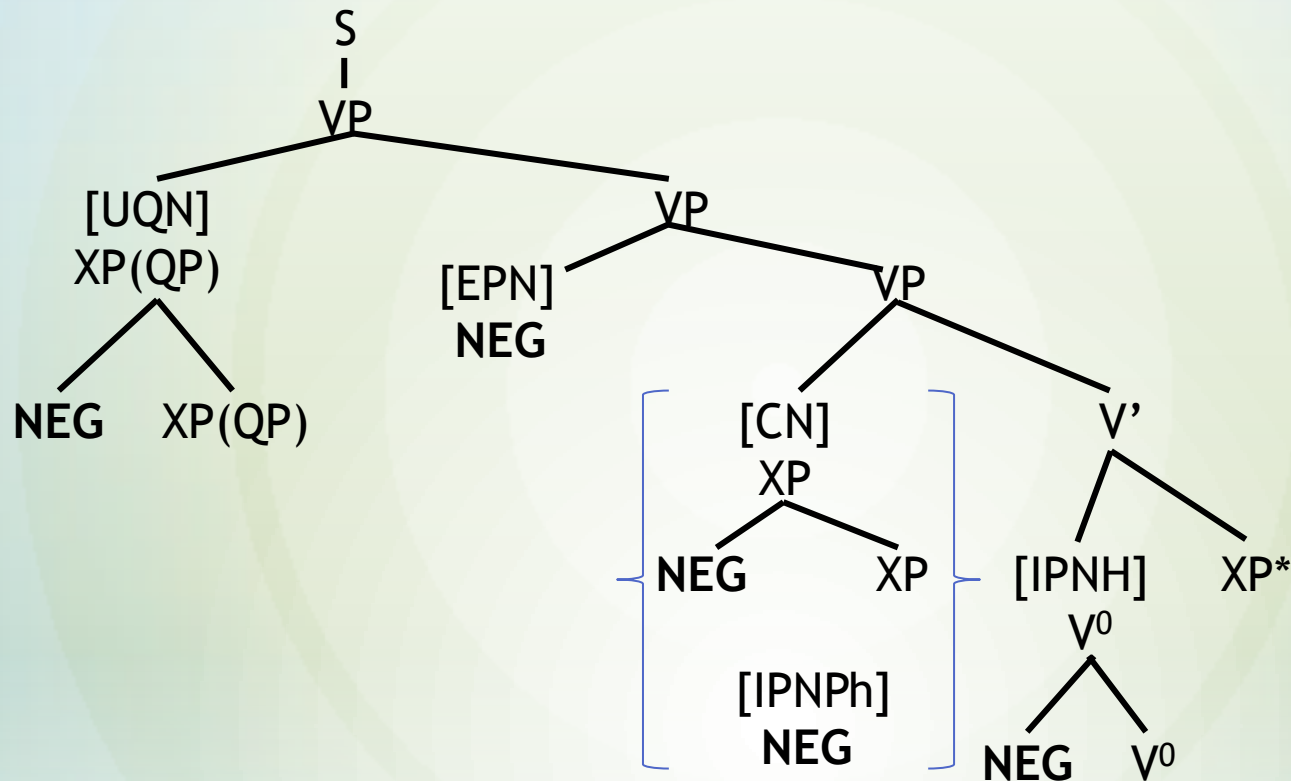
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<http://ieas.unideb.hu/laczko>

1. Introduction

2. Laczkó (2014), LFG'14 Proceedings – outlines of the LFG-XLE analysis of negation in Hungarian
3. new developments/implementation – primarily the treatment of n-word phenomena
4. summary of the ParGram negation issue (based on the wiki page, thanks to Gyuri Rákosi)
5. some remarks and tentative suggestions (based on Hungarian facts)

2.1. Laczko (2014)

(1)



1. [CN] = ordinary constituent negation
 2. [UQN] = universal quantifier negation (special constituent negation)
 3. [EPN] = (VP)external predicate negation
 4. [IPNPh] = (VP)internal predicate negation, phrasal use of NEG
 5. [IPNH] = (VP)internal predicate negation, head-adjunction use of NEG
- the curly brackets signal the complementarity of [CN] and [IPNPh]

2.2. Laczkó (2014)

(22) *nem* NEG * @(PRED %stem)
(^ ADJUNCT-TYPE)= neg.

- NEG: a non-projecting category with X^0 and XP distribution
- the latter could also be implemented as NEGP – however, no evidence for the phrasal nature of *nem* ‘not’
- the EngGram-et-al.-way of treating the negative particle

[1] ordinary constituent negation

Péter NEM A BARÁTJÁ-T hívta fel.
Peter.NOM not the friend.his-ACC called up
‘It wasn’t his friend that Peter called up.’

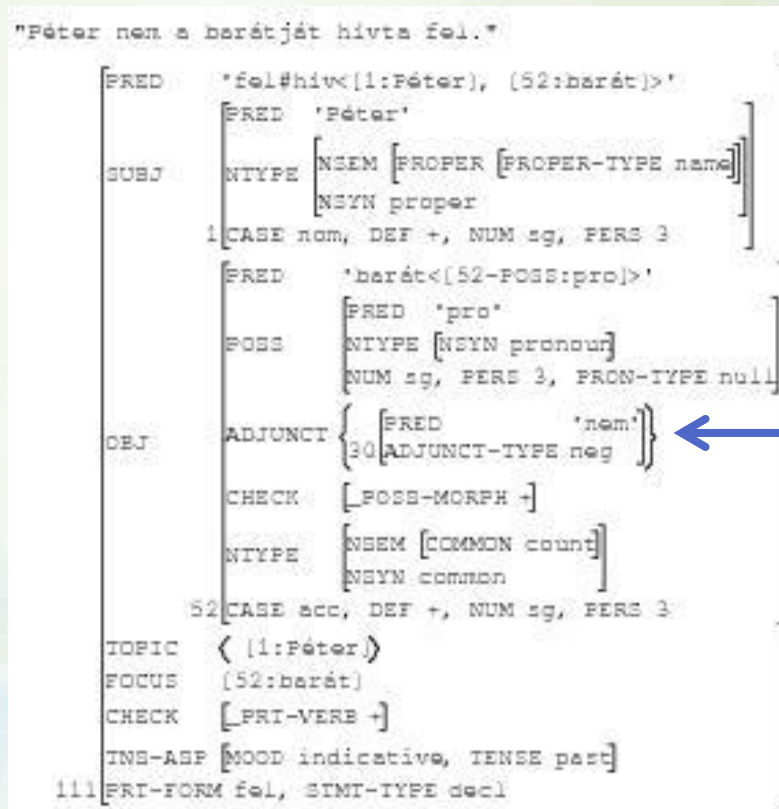
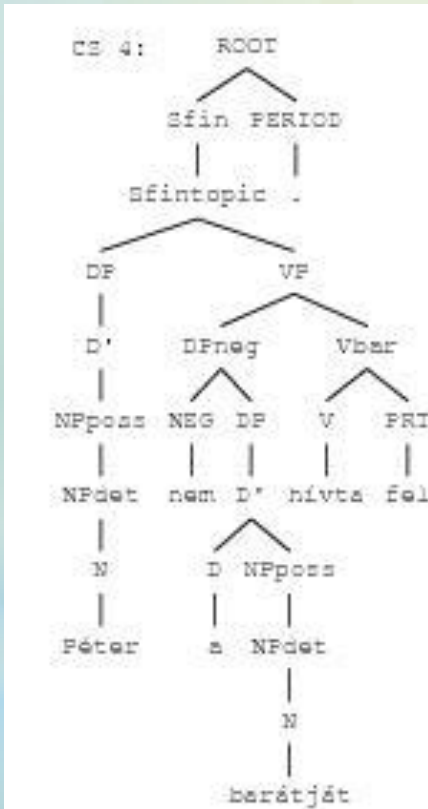
(23) XPneg: (^ GF)=! (^ FOCUS)=!

(24) XPneg --> NEG: @ADJUNCT;
XP.

2.3. Laczkó (2014)

[1] ordinary constituent negation (always in Spec,VP = FOC)

Péter NEM A BARÁTJÁ-T hívta fel.
 Peter.NOM not the friend.his-ACC called up
 ‘It wasn’t his friend that Peter called up.’



- UQs must also follow this constituent negation pattern if there is no (other) focussed constituent in the sentence

2.4. Laczko (2014)

[2] UQ negation with focus (VP-adjoined Q-position)

Nem mindenk-i-t PÉTER hívott fel.
not everybody-ACC Peter.NOM called up

‘It is not true for everybody that it was Peter that called them up.’

(25) VPneg --> XPneg: (^ GF)=!
(^ FOCUS)
(! QUANT-TYPE) =c universal;
VP.

(currently: VPquantneg)

2.5. Laczkó (2014)

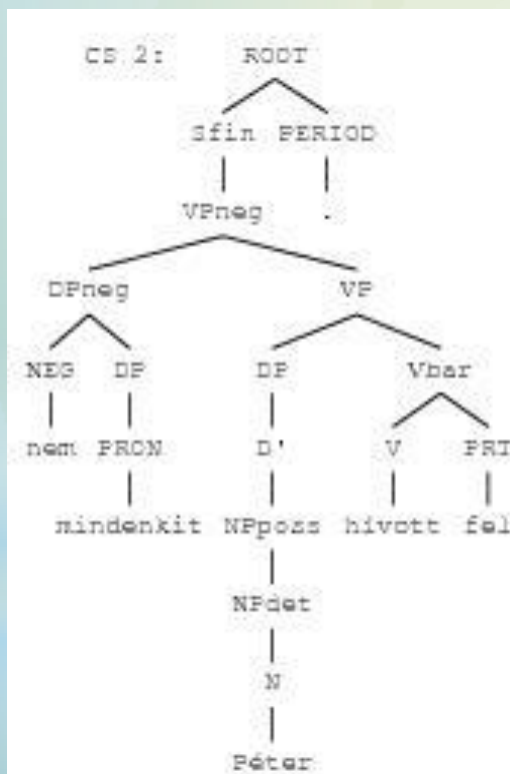
[2] UQ negation with focus

Nem mindenki-t
not everybody-ACC

PÉTER
Peter.NOM

hívott fel.
called up

‘It is not true for everybody that it was Peter that called them up.’



"Nem mindenkit Péter hívott fel."

```

[PRED 'fel#hiv<[43:Péter], [24:pro]>'
  [PRED 'Péter'
    SUBJ [NITYPE [NSEM [PROPER [PROPER-TYPE name]]]
          [NSYN proper
            43[CASE nom, DEF +, NUM sg, PERS 3]
          ]
    OBJ [PRED 'pro'
        ADJUNCT { [PRED 'nem'] ←
                  2[ADJUNCT-TYPE neg]
                }
        GLOSS [TRANS everybody]
        24[CASE acc, DEF -, NUM sg, PRON-TYPE quant, QUANT-TYPE universal]
    FOCUS [43:Péter]
    CHECK [_PRT-VERB +]
    INS-ASP [MOOD indicative, TENSE past]
    71[PRT-FORM fel, SIMT-TYPE decl]
  ]
  ]
  
```

2.6. Laczkó (2014)

[3] predicate negation, with focus, NEG precedes the focus
(VP-adjoined)

Péter	nem	A	BARÁTJÁ-T	hívta	fel.
Peter.NOM	not	the	friend.his-ACC	called	up

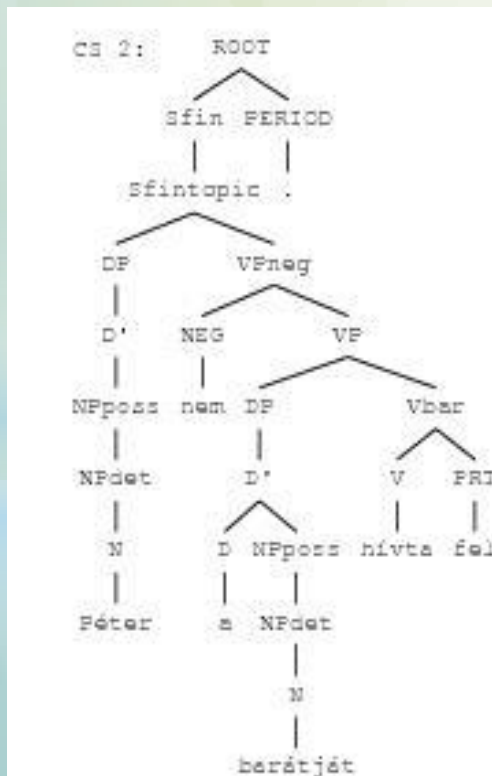
‘It is not true that it was his friend that Peter called up.’

(26) VPneg --> NEG: @ADJUNCT (^ FOCUS);
VP.

2.7. Laczkó (2014)

[3] predicate negation, with focus, NEG precedes the focus

Péter nem A BARÁTJÁ-T hívta fel.
 Peter.NOM not the friend.his-ACC called up
 'It is not true that it was his friend that Peter called up.'



"Péter nem a barátját hívta fel."

```

[PRED 'fel#hív<[1:Péter], [52:barát]>'
 [PRED 'Péter'
 SUBJ NTYPE [NSEM [PROPER [PROPER-TYPE name]]]
 [NSYN proper
 1[CASE nom, DEF +, NUM sg, PERS 3
 [PRED 'barát<[52-POSS:pro]>'
 [PRED 'pro'
 POSS NTYPE [NSYN pronoun]
 [NUM sg, PERS 3, PRON-TYPE null]
 OBJ CHECK [_POSS-MORPH +]
 NTYPE [NSEM [COMMON count]]
 [NSYN common
 52[CASE acc, DEF +, NUM sg, PERS 3
 TOPIC < [1:Péter] >
 ADJUNCT { [PRED 'nem']
 [30[ADJUNCT-TYPE neg] ] }
 FOCUS [52:barát]
 CHECK [_PRI-VERB +]
 INS-ASP [MOOD indicative, TENSE past]
 111[PRI-FORM fel, STMT-TYPE decl
  
```

2.8. Laczkó (2014)

- [4] predicate negation, without focus, NEG precedes the verb
(NEG in focus)

Péter nem hívta fel a barátjá-t.
Peter.NOM not called up the friend.his-ACC
'Peter didn't call up his friend.'

- (28) { PRT
 | XP (^ GF)=! (^ FOCUS)=!
 | XPneg: (^ GF)=! (^ FOCUS)=!
 | NEG: @ADJUNCT (^ FOCUS)=!}

motivation

- word order: the particle has to follow the verb – as in focussed sentences
- very often the construction exhibits the intonation pattern characteristic of focussed sentences

2.9. Laczkó (2014)

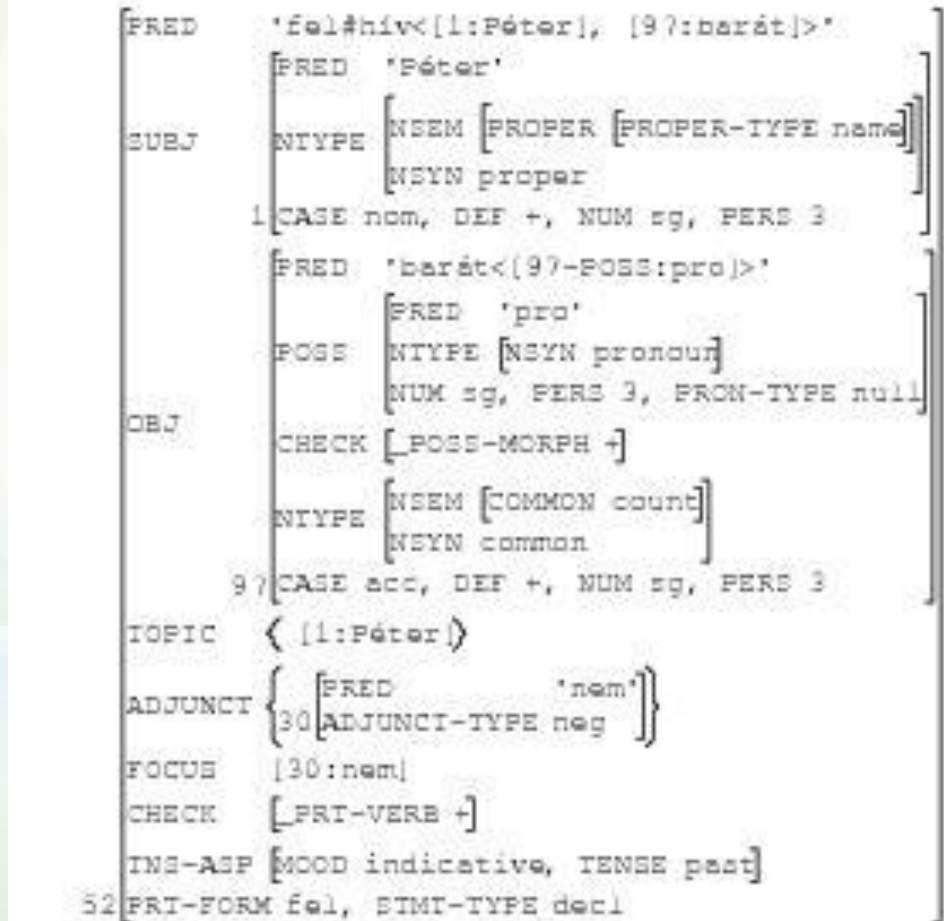
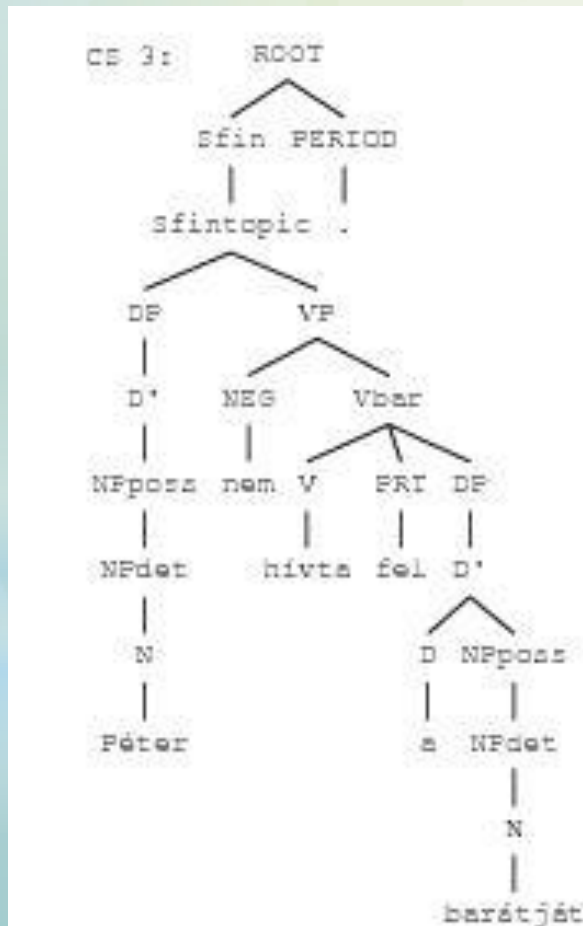
- [4] predicate negation, without focus, NEG precedes the verb

Péter nem hívta fel a barátját.

Peter.NOM not called up the friend.his-ACC

‘Peter didn’t call up his friend.’

"Péter nem hívta fel a barátját."



2.10. Laczkó (2014)

- [5] predicate negation, with focus, NEG precedes the verb
(NEG is head-adjoined)

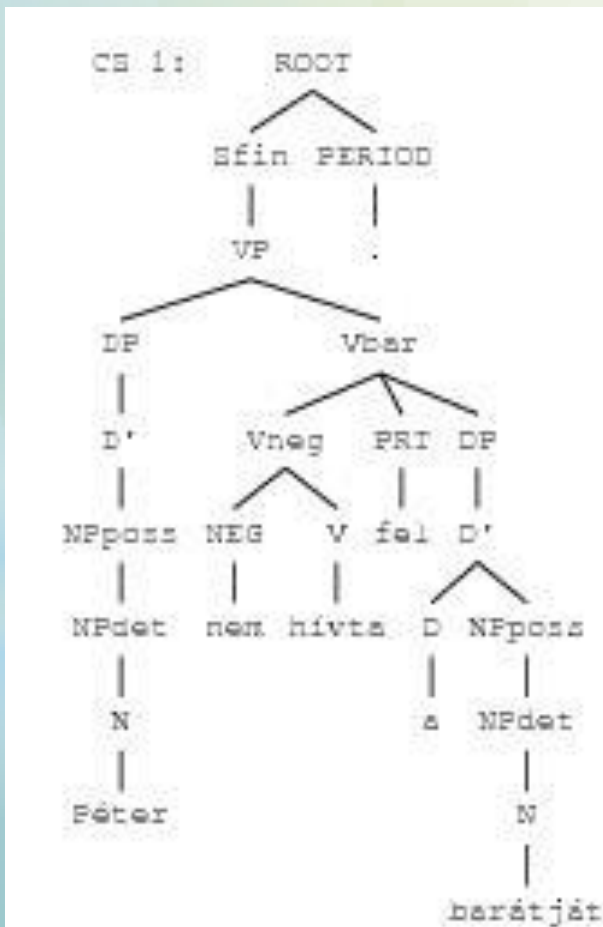
PÉTER nem hívta fel a barátjá-t.
Peter.NOM not called up the friend.his-ACC
'It was Peter who didn't call up his friend.'

- (27) Vneg --> NEG: @ADJUNCT
 (^ FOCUS);
 V.

2.11. Laczkó (2014)

[5] predicate negation, with focus, NEG precedes the verb

PÉTER nem hívta fel a barátjá-t.
 Peter.NOM not called up the friend.his-ACC
 'It was Peter who didn't call up his friend.'

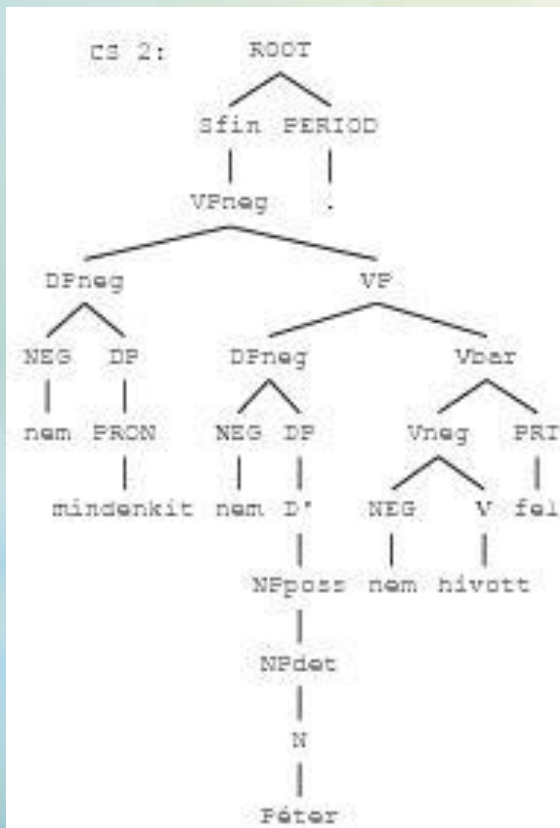


"Péter nem hívta fel a barátját."

PRED	'fel#hív<[1:Péter], [97:barát]>'
	[PRED 'Péter'
SUBJ	NTYPE [NSEM [PROPER [PROPER-TYPE name]]]
	[NSYN proper
	1 [CASE nom, DEF +, NUM sg, PERS 3
	[PRED 'barát<[97-POSS:pro]>'
	[PRED 'pro'
	POSS [NTYPE [NSYN pronoun]
	[NUM sg, PERS 3, PRON-TYPE null]
OBJ	CHECK [_POSS-MORPH +]
	NTYPE [NSEM [COMMON count]]
	[NSYN common
	97 [CASE acc, DEF +, NUM sg, PERS 3
ADJUNCT	{ 30 [PRED 'nem']
	[ADJUNCT-TYPE neg] }
FOCUS	[1:Péter]
CHECK	[_PRI-VERB +]
TNS-ASP	[MOOD indicative, TENSE past]
52	PRI-FORM fel, STMT-TYPE decl

2.12. Laczkó (2014)

- (1) Nem mindenki-t nem Péter nem hívott fel.
 not everybody-acc not Peter not called up
 'It doesn't hold for everybody that it was not Peter who did not call them up.'



"Nem mindenkit nem Péter nem hívott fel."

[PRED 'fel#hív<[65:Péter], [24:pro]>' [PRED 'Péter' ADJUNCT { [PRED 'nem' ADJUNCT-TYPE neg] }]]
SUBJ	NTYPE [NSEM [PROPER [PROPER-TYPE name]] NSYN proper] 65[CASE nom, DEF +, NUM sg, PERS 3]	
OBJ	PRED 'pro' ADJUNCT { [PRED 'nem' ADJUNCT-TYPE neg] } GLOSS [TRANS everybody] 24[CASE acc, DEF -, NUM sg, PRON-TYPE quant, QUANT-TYPE universal]	
ADJUNCT	{ [PRED 'nem' ADJUNCT-TYPE neg] }	
FOCUS	[65:Péter]	
CHECK	[_PRI-VERB +]	
INS-ASP	[MOOD indicative, TENSE past]	
115	[PRI-FORM fel, SIMT-TYPE decl]	

3.1. New developments

new development: the treatment of **n-words** in Hungarian (& sample implementation)

Negative concord: English vs. Hungarian

senki:

- an n-word, glossed as #nobody
- it has to be in the scope of clausal negation

- (1) a. *John didn't see anybody.*
János **nem** látott **senkit.** =
John **not** saw #nobody
- c. *John didn't see somebody.*
János **nem** látott **valakit.**
John **not** saw somebody
- b. *John saw nobody.*
=János **nem** látott **senkit.**
John **not** saw #nobody
- d. *Nobody saw anybody.*
Senki **nem** látott **senkit.**
#nobody **not** saw #nobody

3.2. New developments

nem 'not' vs. **sem** & **se** 'also.not'

preverbally: **XPsnem**

senki **nem/sem/se** + *János* ***nem/sem/se** (⇔ *nem János*: **XPneg**)
#nobody John

- in focus & sent negation
- in quantneg & const negation

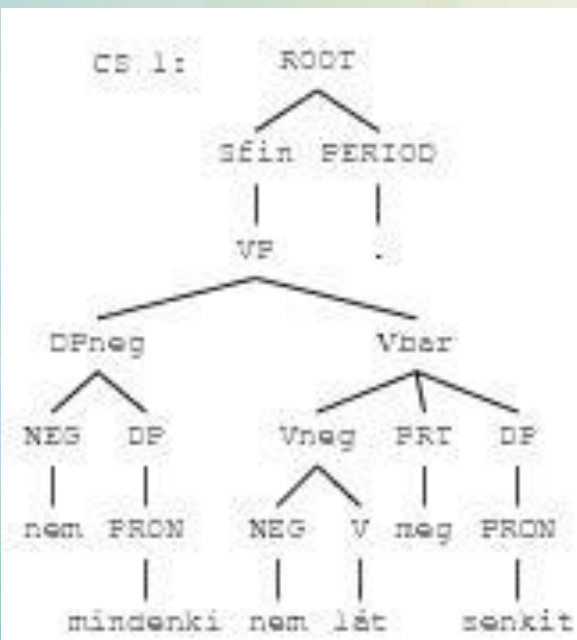
postverbally: **XPse**

senki ***nem (sem/se)** + *János* ***nem/sem/se**
#nobody John

3.3. New developments

(1) Nem mindenki nem lát meg senki-t.
 not everybody.nom not sees pv #nobody
 'Not everybody does not catch sight of anybody.'

- UQ-negation in focus, clausal negation, n-word
- ADJ-NEG & NEG+ vs. NEG+ only for n-word scope?



"Nem mindenki nem lát meg senki-t."

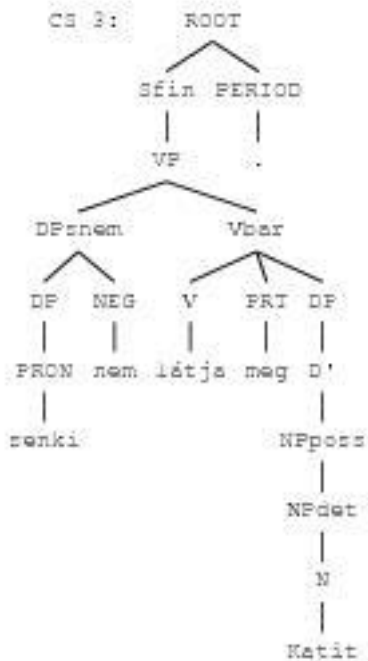
```

[PRED 'meg#lát<[24:pro], [101:pro]>'
SUBJ [
  PRED 'pro'
  ADJUNCT {
    [23 [PRED 'nem']
    [ADJUNCT-TYPE neg]
  }
  GLOSS [TRANS everybody]
  24 [CASE nom, NUM sg, PERS 3, QUANT-TYPE universal]
]
OBJ 101 [
  PRED 'pro'
  CASE acc, DEF -, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant
]
ADJUNCT {
  [65 [PRED 'nem']
  [ADJUNCT-TYPE neg]
} ←
FOCUS [24:pro]
CHECK [_PRI-VERB +]
GLOSS [TRANS see]
TNS-ASP [MOOD indicative, TENSE pres]
NEG +, PRI-FORM neg, STMT-TYPE decl ←

```

3.4. New developments

- (1) Senki nem látja meg Kati-t.
 #nobody.nom not sees pv Kate-acc
 'Nobody catches sight of Kate.'



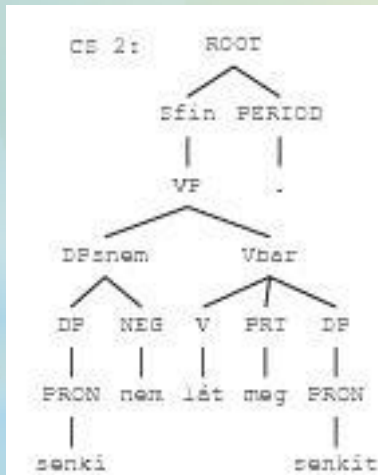
"Senki nem látja meg Katit."

```

[PRED 'meg#lát<[2:pro], [79:Kati]>']
SUBJ [
  PRED 'pro'
  ADJUNCT [PRED 'sem']
  2[ADJUNCT-TYPE neg, CASE nom, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
]
OBJ [
  PRED 'Kati'
  NTYPE [
    NSEM [PROPER [PROPER-TYPE name]]
    NSYN proper
  ]
  79[CASE acc, DEF +, NUM sg, PERS 3]
]
ADJUNCT {
  [PRED 'nem']
  -1[ADJUNCT-TYPE neg]
}
CHECK [_PRT-VERB +]
GLOSS [TRANS see]
TNS-ASP [MOOD indicative, TENSE pres]
43[NEG +, PRT-FORM meg, STMT-TYPE decl]
  
```

3.5. New developments

- (1) Senki nem lát meg senki-t.
 #nobody.nom not sees pv nobody-acc
 'Nobody catches sight of anybody.'



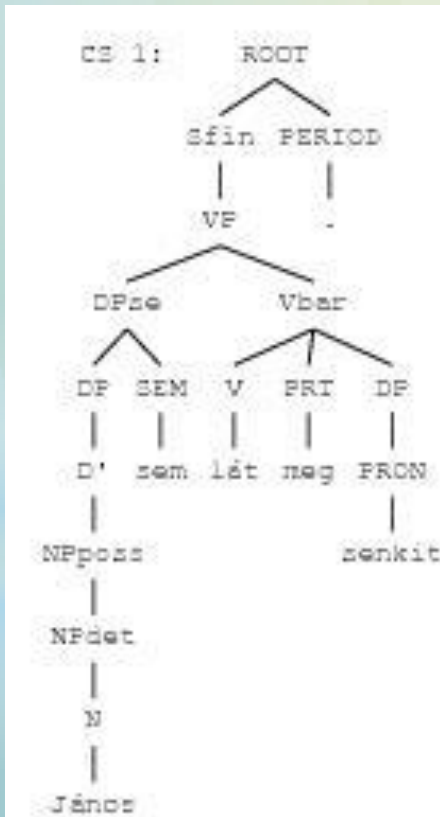
"Senki nem lát meg senkit."

```

[PRED 'meg#lát<[2:pro], [79:pro]>']
SUBJ [
  [PRED 'pro']
  ADJUNCT [PRED 'sem']
  2 [ADJUNCT-TYPE neg, CASE nom, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
]
OBJ [
  [PRED 'pro']
  79 [CASE acc, DEF -, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
]
ADJUNCT {
  [PRED 'nem']
  -1 [ADJUNCT-TYPE neg]
}
CHECK [_PRT-VERB +]
GLOSS [TRANS see]
TNS-ASP [MOOD indicative, TENSE pres]
43 [NEG +, PRT-FORM meg, STMT-TYPE decl]
  
```

3.6. New developments

- (1) János sem lát meg senki-t.
 John.nom also.not sees pv #nobody-acc
 'John does not catch sight of anybody, either.'



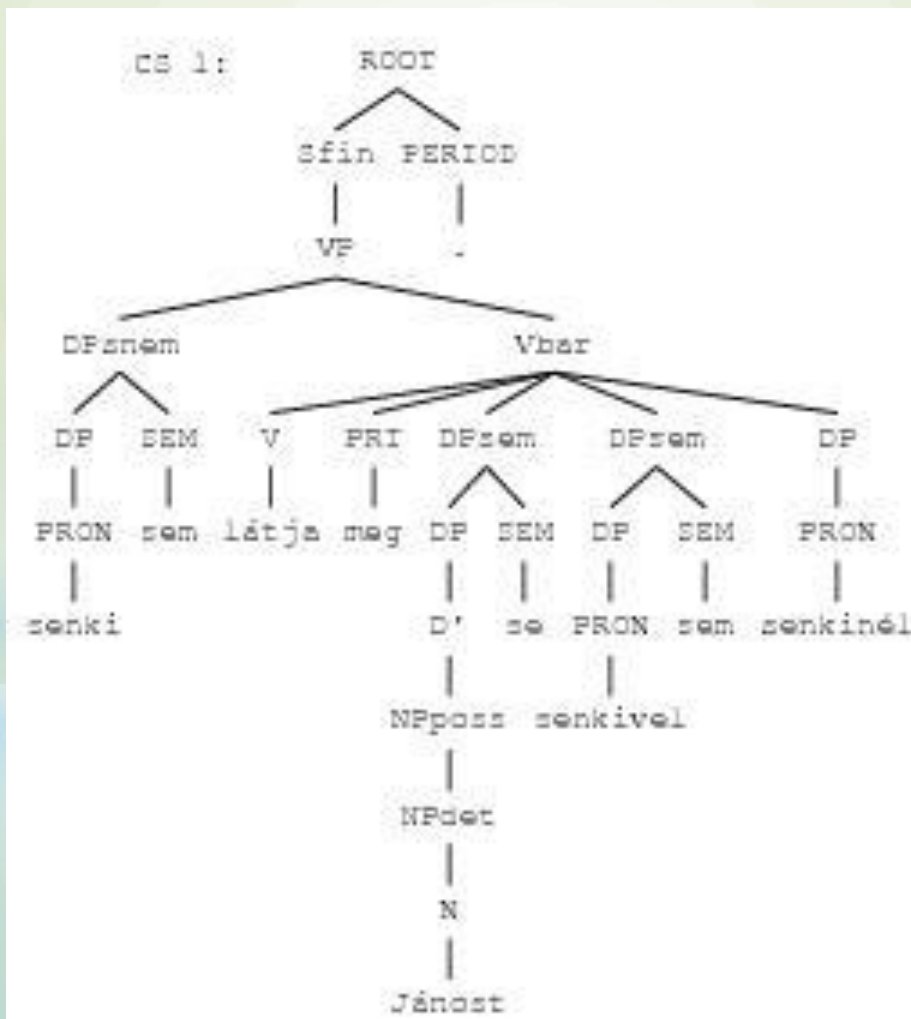
"János sem lát meg senkit."

```

[PRED 'meg#lát<[1:János], [70:pro]>'
SUBJ [
  [PRED 'János'
  NTYPE [
    NSEM [PROPER [PROPER-TYPE name]]
    NSYN proper
  ]
  1 [CASE nom, DEF +, NUM sg, PERS 3]
]
OBJ [
  [PRED 'pro'
  70 [CASE acc, DEF -, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
]
ADJUNCT {
  [PRED 'sem']
  -2 [ADJUNCT-TYPE neg]
}
CHECK [_PRI-VERB +]
GLOSS [TRANS sed]
INS-ASP [MOOD indicative, TENSE pres]
34 [NEG +, PRI-FORM neg, SIMT-TYPE decl]
  
```

3.7. New developments

Senki sem látja meg János-t se senki-vel sem senki-nél.
#nobody.nom also.not sees pv John-acc also not #nobody-with also.not #nobody-at
'Nobody catches sight of not even John not even with anybody not even at anybody's place.'



3.8. New developments

Senki sem látja meg János-t se senki-vel sem senki-nél.
 #nobody.nom also.not sees pv John-acc also not #nobody-with also.not #nobody-at
 'Nobody catches sight of not even John not even with anybody not even at anybody's place.'

"Senki sem látja meg Jánost se senkivel sem senkinél."

```

[PRED      'meg#lát<[2:pro], [62:János]>']
SUBJ      [
  [PRED      'pro']
  ADJUNCT  [PRED 'sem']
  2[ADJUNCT-TYPE neg, CASE nom, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
]
OBJ      [
  [PRED      'János']
  ADJUNCT  {
    [PRED      'se']
    89[ADJUNCT-TYPE neg]
  }
  NTYPE    [
    NSEM [PROPER [PROPER-TYPE name]]
    NSYN proper
  ]
  62[CASE acc, DEF +, NUM sg, PERS 3]
]
ADJUNCT  [
  -1[ADJUNCT-TYPE neg]
  [PRED      'pro']
  ADJUNCT  {
    [PRED      'sem']
    113[ADJUNCT-TYPE neg]
  }
  94[CASE inst, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
  [PRED      'pro']
  118[CASE adessive, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
]
CHECK    [_PRT-VERB +]
GLOSS    [TRANS see]
TNS-ASP  [MOOD indicative, TENSE pres]
26[NEG +, PRT-FORM meg, STMT-TYPE decl]
  
```

3.9. New developments

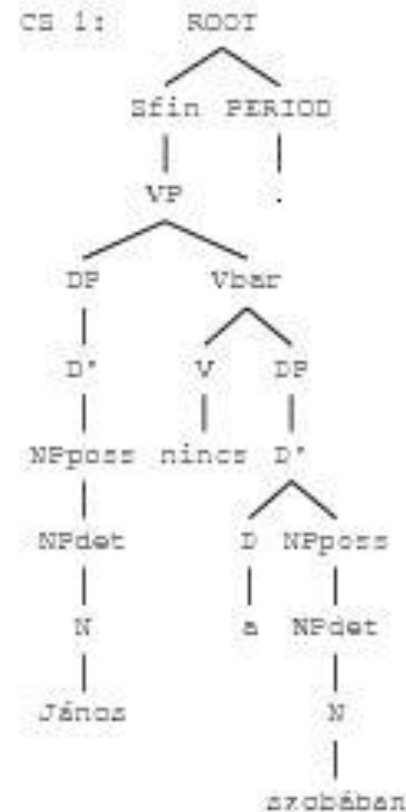
(1) János nincs a szobá-ban.
 John.nom not.is the room-in
 'John isn't in the room.'

[John: either FOC or TOP]

"János nincs a szobában."

```

[PRED 'van<[1:János], [55:szoba]>']
SUBJ [
  [PRED 'János']
  NTYPE [
    NSEM [PROPER [PROPER-TYPE name]]
    NSYN proper
  ]
  1 [CASE nom, DEF +, NUM sg, PERS 3]
]
OBL [
  [PRED 'szoba']
  NTYPE [
    NSEM [COMMON count]
    NSYN common
  ]
  55 [CASE inessive, DEF +, NUM sg, PERS 3]
]
FOCUS [1:János]
GLOSS [TRANS be]
TNS-ASP [MOOD indicative, TENSE pres]
30 [NEG +, SIMT-TYPE decl]
  
```



nincs = not.be.pres.3sg → an additional argument against ADJUNCT-NEG, because it would have to be assumed to contribute two PRED features: PRED=be & ADJUNCT-PRED=not – likewise for **sincs**: PRED=be & ADJUNCT-PRED=also.not

3.10. New developments

- (1) Senki nincs a szobában.
 #nobody.nom not.is the room-in
 'Nobody is in the room.'

"Senki nincs a szobában."

PRED	'van<[2:pro], [47:szoba]>'
SUBJ	2 [PRED 'pro' CASE nom, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
OBL	47 [PRED 'szoba' NTYPE [NSEM [COMMON count] NSYN common] CASE inessive, DEF +, NUM sg, PERS 3]
FOCUS	[2:pro]
GLOSS	[TRANS be]
TNS-ASP	[MOOD indicative, TENSE pres]
22	NEG +, SIMT-TYPE decl



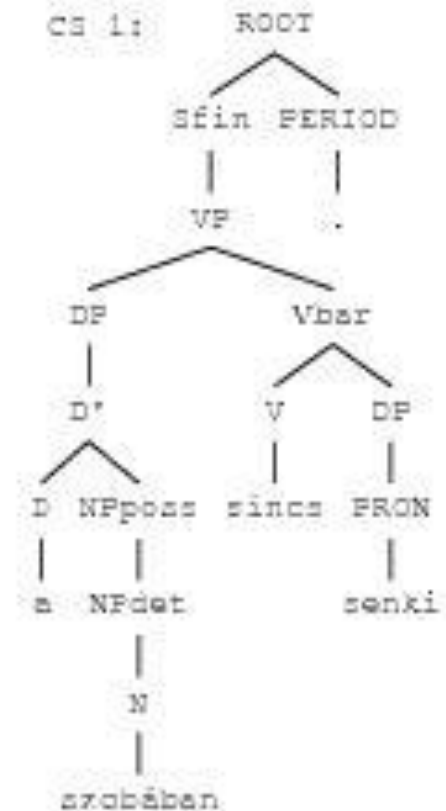
- the copula is negated in this suppletive fashion (in present tense, 3rd person, indicative mood) in its **locative** (& existential) use → an argument for OBL, see Laczkó (2012)

3.11. New developments

- (1) A szobában sincs senki.
 the room-in also.not.is #nobody.nom
 'Nobody is in the room either.'

"A szobában sincs senki."

[PRED	'van<[?1:pro], [2:szoba]>'
SUBJ	[PRED 'pro'
?1	[CASE nom, HUMAN +, NUM sg, PERS 3, PRON-TYPE quant]
OBL	[PRED 'szoba'
NTYPE	[NSEM [COMMON count]
	[MSYN common]
2	[CASE inessive, DEF +, NUM sg, PERS 3]
FOCUS	[2:szoba]
GLOSS	[TRANS be]
TNS-ASP	[MOOD indicative, TENSE pred]
46	[NEG +, SIMT-TYPE decl]



4.1. ParGram negation issues (wiki)

There has been a discussion over the years about how to treat negation. The English and German grammars register negation as an ADJUNCT (ADJUNCT-TYPE neg) in the f-structure. However, this analysis did not seem to make sense for affixal negation on the verb. Instead, the presence of negation is just registered via a NEG + feature. The ParGram grammars are currently split how they analyze negation between these two options. At the **ParGram meeting in Oxford in 2006**, a decision was taken that all grammar should experiment with a possibly complex NEG feature. The problem here is that you get examples like "I didn't not go." in English and it is not clear how to treat that with just a NEG feature.

TL: see my remark in point 8 below.

Also there is maybe an issue with respect to NPI items that one might want to think about. But perhaps this is best left for semantics.

TL: In Hungarian, we have n-words, which are strictly licensed by specific negative configurations (a task to handle for the generator), see my remark in point 4 below.

4.2. ParGram negation issues (wiki)

Negation Committee (ParGram in Oxford, 2006)

(Miriam Butt, Özlem Çetinoğlu, Tracy H. King, Paul Meurer, Ingo Mittendorf)

- Languages using ADJUNCT(-NEG) to re-examine use of NEG (in conjunction with the ADJUNCT).
- Use of NEG is encouraged.
- English (and German) to test if this is a problem.
- Languages with non-independent (affixal etc.) negation allowed to use NEG without providing a (dummy) negative ADJUNCT.
- Turkish, Georgian, Welsh to explore this approach, possibly with NEG having a complex value.

4.3. ParGram negation issues (wiki)

summary of Gyuri Rakosi's presentation in Debrecen

- The ADJUNCT/NEG+ analysis does not always correlate with the expected language type in the XLE grammars: Polish has a negative adjunct but the XLE grammar uses the NEG+ feature; Indonesian employs the ADJUNCT-analysis even if it has several distinct negative markers.
- Several languages have competing negation strategies (Wolof, Indonesian, French). Thus some level of consistency is an issue crosslinguistically as well as within some of the grammars.
- Problems for the NEG+ analysis: "I cannot not go" (see also above), scope-interactions.
- Problems for the ADJUNCT analysis: relation between "John didn't see anybody" and "John saw nobody"; or between "John didn't have any time" and "John had no time" ("no" is a quantifier in the English grammar with the feature POL negative).
- General issue: separate clearly f-structure issues and semantic issues in the analysis.

4.4. ParGram negation issues (wiki)

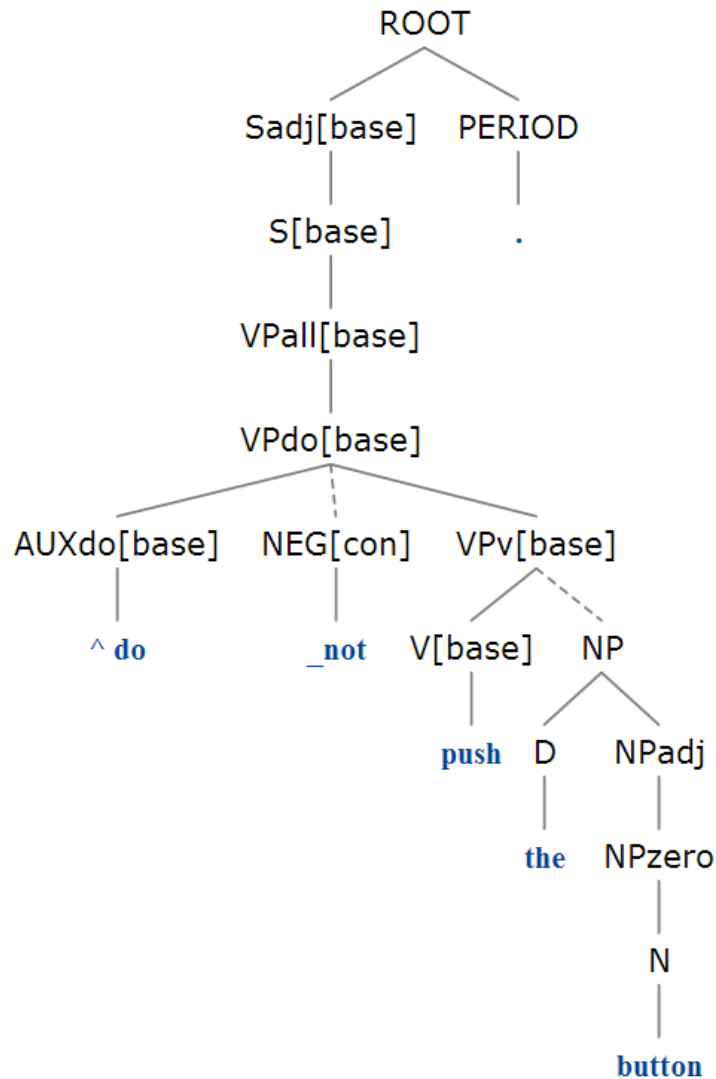
Occasioned by the ACL paper:

*The English not functions as an adverbial adjunct that modifies the main verb ... and **information would be lost if this were not represented at f-structure** (my emphasis, TL). However, the same cannot be said of the negative affix in Turkish — the morphological affix is not an adverbial adjunct. We have therefore currently analyzed morphological negation as adding a feature to the f-structure which marks the clause as negative, Within ParGram we have not abstracted away from this surface difference. (pre-print)*

TL: *I did open the door. – I opened the door. – the same function: did & -ed, cf. more & -er*

4.5. ParGram negation issues (wiki)

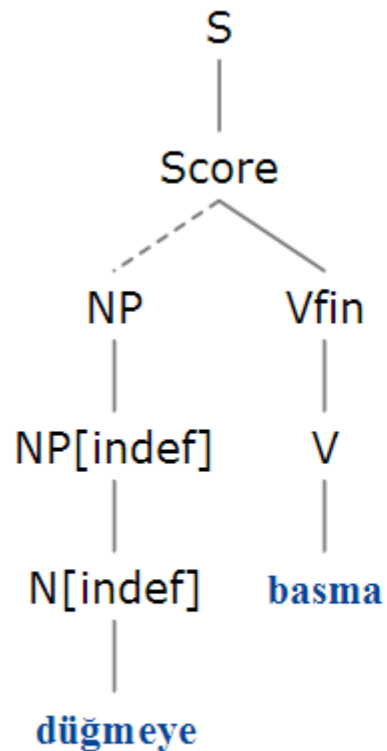
English: *Don't push the button*



PRED	'push<[9:null_pro], [4:button]>'	
TNS-ASP	11	PROG -_, PERF -_, MOOD imperative
ADJUNCT	1	{ 2 PRED 'not' ADJUNCT-TYPE neg }
OBJ	7	PRED 'button'
	8	SPEC DET PRED 'the' DET-TYPE def
	6	NTYPE NSEM COMMON count
	5	NSYN common
	4	PERS 3, NUM sg, CASE obl
SUBJ	9	PRED 'null_pro'
	10	NTYPE NSYN pronoun
		PRON-TYPE null, PERS 2
VTYPE	0	main, PASSIVE -, CLAUSE-TYPE imp

4.6. ParGram negation issues (wiki)

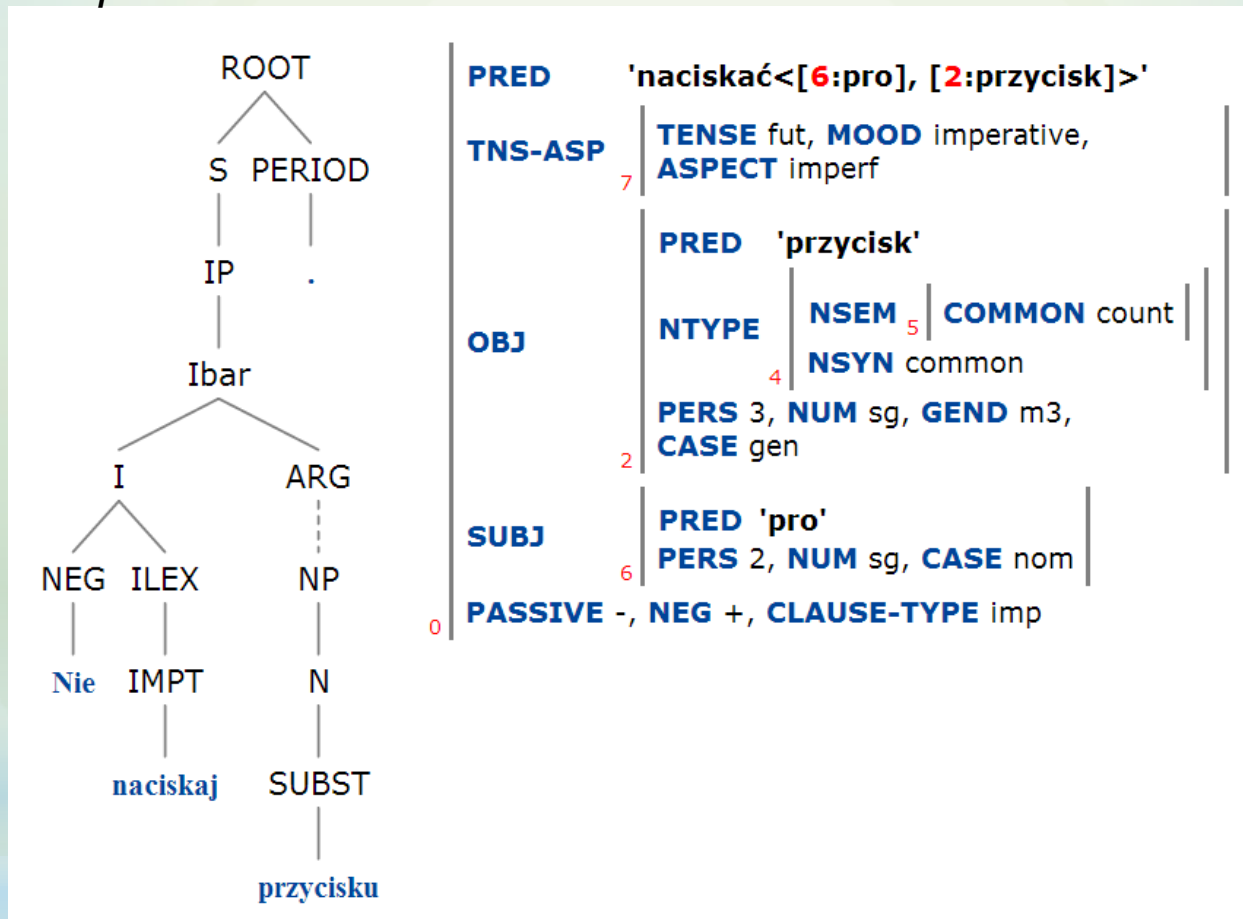
Turkish: *Don't push the button*



	PRED	'bas<[4:null_pro], [1:düğme]>'	
	TNS-ASP	6	MOOD imperative
			PRED 'düğme'
	OBJ-TH		NSEM 3 COMMON count
		2	NSYN common
		1	PERS 3, NUM sg, CASE dat
			PRED 'null_pro'
	SUBJ		NTYPE 5 NSYN pronoun
		4	PRON-TYPE pers, PERS 2, NUM sg, CASE nom
0	VTYP	main, PASSIVE -, NEG +, CLAUSE-TYPE imp	

4.7. ParGram negation issues (wiki)

Polish: *Don't push the button*



Polish LFG also uses Turkish-style negation (it treats negation as a marker, as a co-head of the relevant verb) ... If there are some good reasons, we would adopt the adjunct analysis.
(Agnieszka)

4.8. ParGram negation issues (wiki)

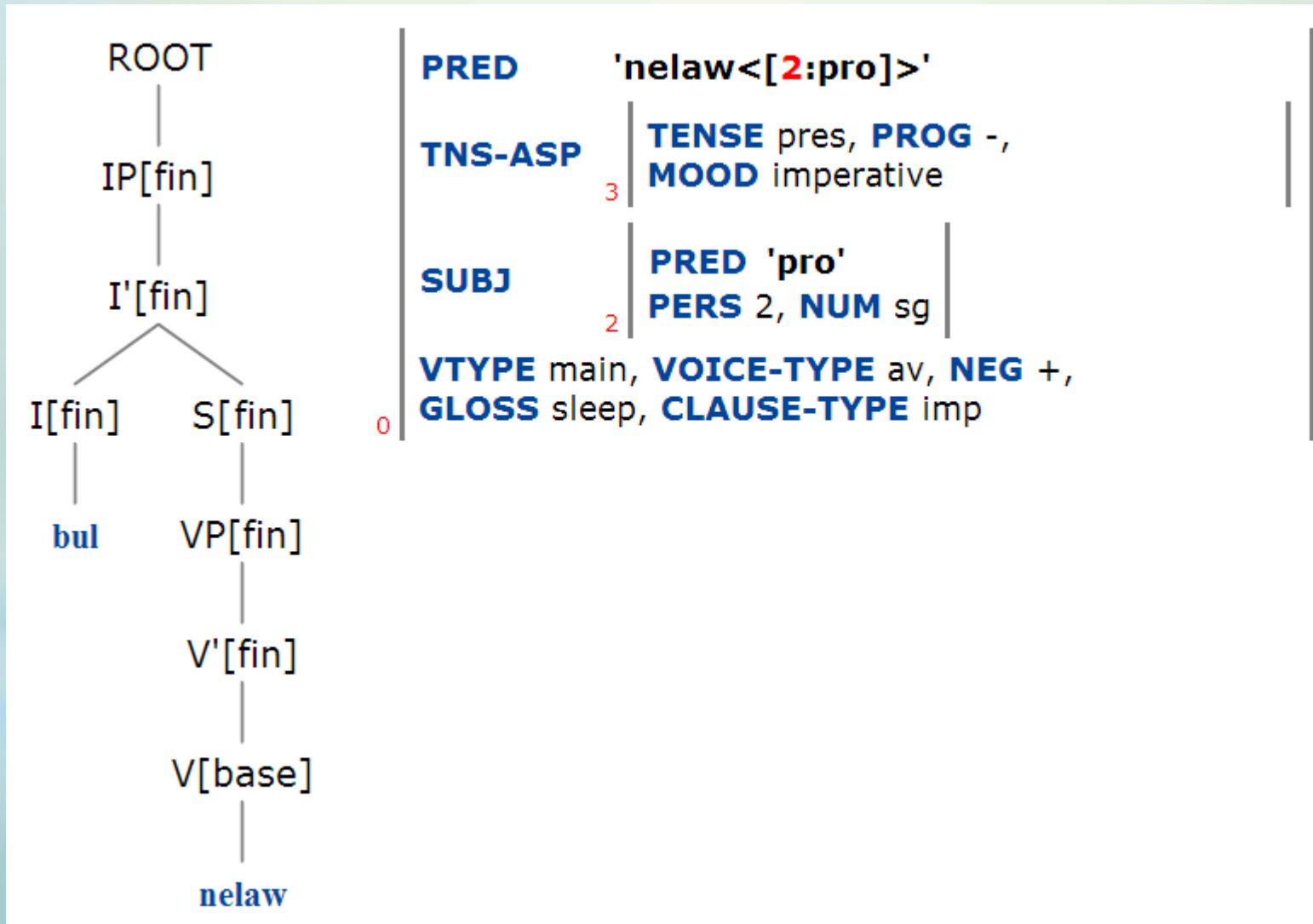
Wolof

Wolof has both negation forms: affixal and negation expressed via a lexical item. The two forms, however, have a different distribution. While clauses with focus can contain both forms, affixal negation can only be found in neutral (i.e. non-focused) clauses. This means that the adjunct analysis could still be viable for those focused constructions with negation expressed via a lexical item, however, the Turkish-style seems more motivated for affixal negation. Unlike Agnieszka's remark for Polish, at this point, I see no good reasons for adopting the adjunct analysis for morphologically marked negation in Wolof.

Currently, I adopt the Turkish-style for both negation forms, partly for consistency reasons: in order to have a uniform analysis for both forms, (Bamba)

4.9. ParGram negation issues (wiki)

Wolof: *Don't sleep* (?)



5.1. Comments and tentative suggestions

1. NEG-ADJUNCT at the clausal level **is** strange. Negation does not seem to be on a par with (ordinary) adjuncts. For instance, a clause-level NEG-ADJUNCT licenses n-words **ADJUNCTS AND ARGUMENTS** in Hungarian. It seems to be more feasible to assume, at least for Hungarian(-type languages), a clausal NEG feature that licenses n-words (whether arguments or adjuncts).
2. Affixal negation also adds to this consideration.
3. “It is not clear, either, how you can treat *I didn't not go.* with just NEG-ADJUNCT.” I think it is not clear, either, how you can treat this with just NEG+. – This seems to require a special treatment anyhow.
4. For the treatment of n-words, a NEG+ feature (or POL=negative) at the clausal level seems to be intuitive (also see 1. above), AND necessary/efficient for generation.

5.2. Comments and tentative suggestions

5. The inventory of “negation devices” so far:
 - ADJUNCT-NEG for clausal negation
 - NEG=+ for clausal negation
 - POL=negative for constituent negation – in English (cf. *I had no time*):
[SPEC [QUANT [PRED=no, POL=negative]]]
6. The current implementation in HunGram:
 - NEG=+ (possibly combined with ADJUNCT-NEG) for clausal negation
 - ADJUNCT-NEG for constituent negation
7. Another possibility (for Hungarian, at least):
 - NEG=+ for clausal negation
 - POL=negative for constituent negation (OR VICE VERSA)

5.3. Comments and tentative suggestions

8. Metalinguistic and/or VP negation, which can be combined with clausal negation (see point 3 above), most probably requires a special treatment in any approach. I think this could be naturally handled by ADJUNCT-NEG (cf. it is not true that...):

(1) *Én nem* (ADJ-NEG) *nem* (NEG=+) *hívtam* *meg* *senki-t*.
I not not invited.1sg pv #nobody-acc
'I didn't not invite anybody.'

- Notice that it is the second *nem* that licenses n-words.

9. A paper at LFG'15? (Or a round-table?) (Or another round in Bergen?)

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References

Laczkó, Tibor. 2014. Outlines of an LFG-XLE account of negation in Hungarian sentences. In Butt, Miriam & King, Tracy H. eds. *Proceedings of the LFG '14 Conference*, Ann Arbor, Michigan. Stanford: CSLI Publications, 304-324.

Laczkó, Tibor. 2012. On the (Un)Bearable Lightness of Being an LFG Style Copula in Hungarian. In Butt, Miriam & King, Tracy H. eds. *Proceedings of the LFG '14 Conference*, Udayana University, Bali. Stanford: CSLI Publications, 341-361.

Rákosi, György. 2013. Negation (ppt at the 2013 Debrecen ParGram Meeting). In: *ParGram Wiki: Pargram Topics*.

<http://typo.uni-konstanz.de/redmine/projects/pargram/wiki/Negation>