

Full valency and the position of enclitics in the Old Czech

Radek Čech

Pavel Kosek

Ján Mačutek

Olga Navrátilová

Development of the Czech pronominal (en)clitics

- supported by the national project (GAČR GA17-02545S)
- analysis of enclitics from 14th century to 20th century
- word order
- Biblical texts

Enclitics

- language units that are phonetically dependent on preceding word
- there must be no syntactic relationship between enclitic and preceding word
- form
 - discrete morpheme
 - auxiliary verb
 - pronoun

[Co] sě tobě vidí, Šimone?

what_{NOM} REFL_{ACC} see_{3.PS.SG.PRAES}

‘What is thy opinion, Simon?’

Bible olomoucká (BiblOl) Mathew 17,24

Enclitics (in verb finite phrase) in Contemporary and Old Czech

- Contemporary Czech
 - relatively stable position = after the first phrase of clause (from the first half of 20. century)
- Old (and Middle) Czech
 - word order variation

Word order of enclitics in Old Czech

1. the postinitial position (the Wackernagel's Law)

[I][E][]*

[*toho věku*] *sě* *jemu porodil Isák*

*that*_{GEN.F.SG} *age*_{GEN.F.SG} REFL_{ACC} *him*_{DAT.M.SG} *born*_{PART.PRET.ACT.NOM.SG.M} *Isaac*_{NOM.M.SG}

‘And as Abraham was a hundred years old, his son Isaac was born to him.’

BiblO1 Genesis 21,5

Word order of enclitics in Old Czech

2. the non-postinitial position

[I][]*[E][]*

[Volánie Sodomských a Gomorrejských] rozmnožilo sě jest

outcry_{NOM.N.SG} sodom_{ADJ.GEN.M.PL} and gomorrha_{ADJ.GEN.M.PL} multiply_{PART.PRET.ACT.N.SG} REFL_{ACC}
be_{AUX.PRET.3.SG}

‘The cry of Sodom and Gomorrha is multiplied’

BiblOl Genesis 18,20

Research questions

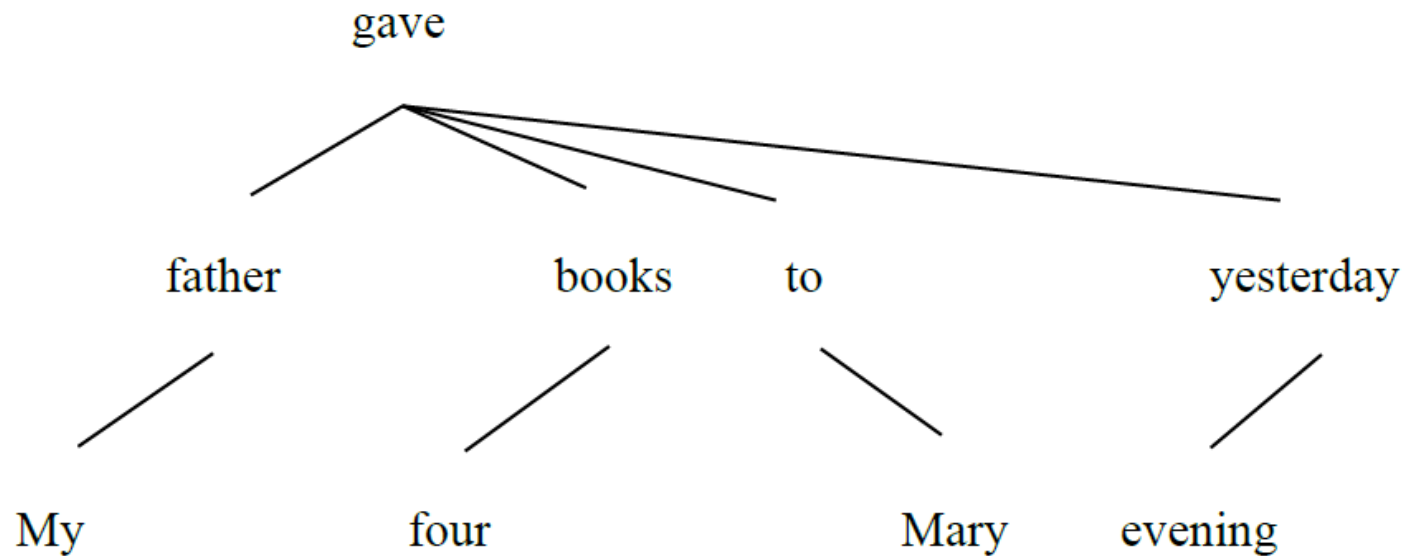
- are there any regularities in a word order distribution of enclitics in Old Czech?
- how are particular word order positions connected to other language properties?
- style
- length of initial phrase
- groups of particular enclitics behave differently

Hypothesis

*The higher the full valency of the predicate,
the lower the probability of the occurrence of the enclitic
after the initial phrase of the clause.*

Full valency (FV)

- is a reaction to the absence of reliable criteria for distinguishing obligatory arguments (complements) and non-obligatory arguments (optional adjuncts)
- all directly dependent units of the predicate which occur in the actual language usage comprise its full valency frame



Full valency & word order of enclitics

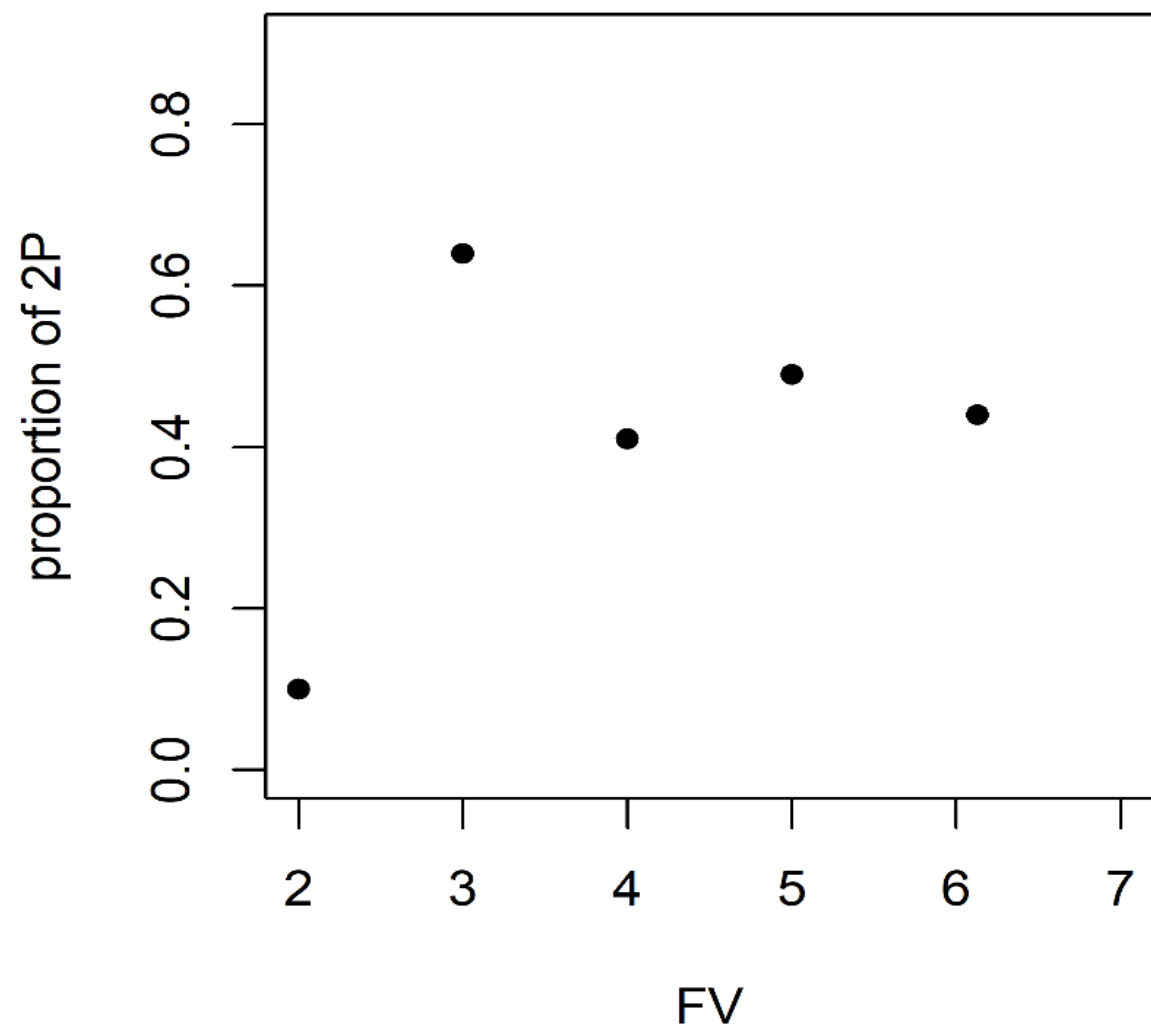
- higher FV of the predicate → higher complexity of the clause
 - (at least at this level of the syntactic tree, i.e. at the root of the clause and its direct dependents)
- the higher complexity of the clause → increasing the probability that the Wackernagel's Law is “violated”

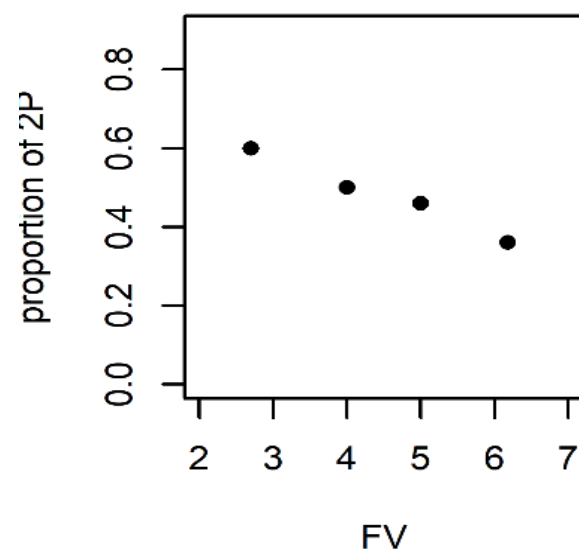
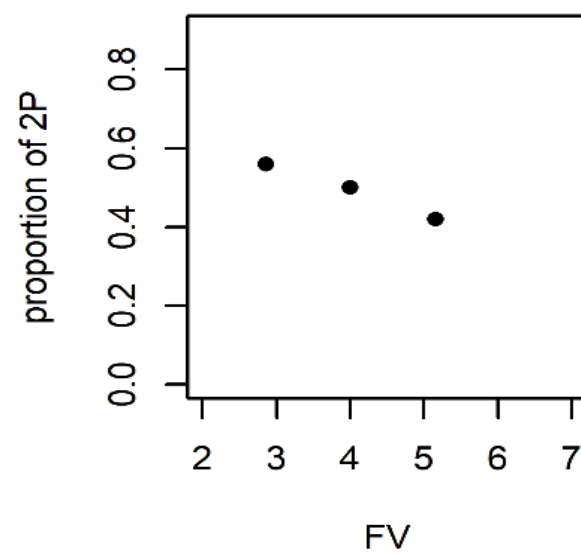
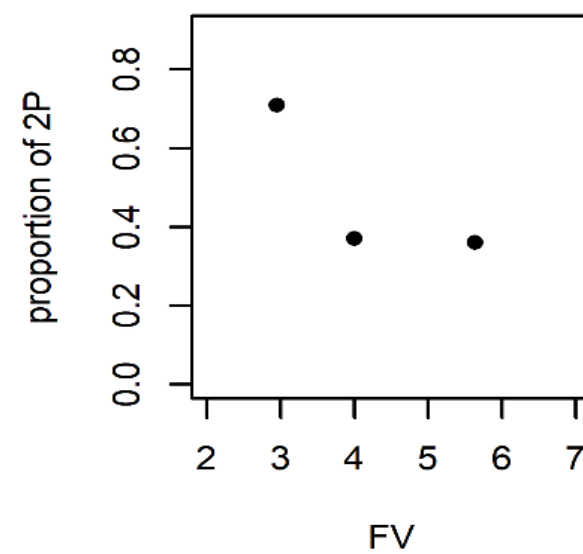
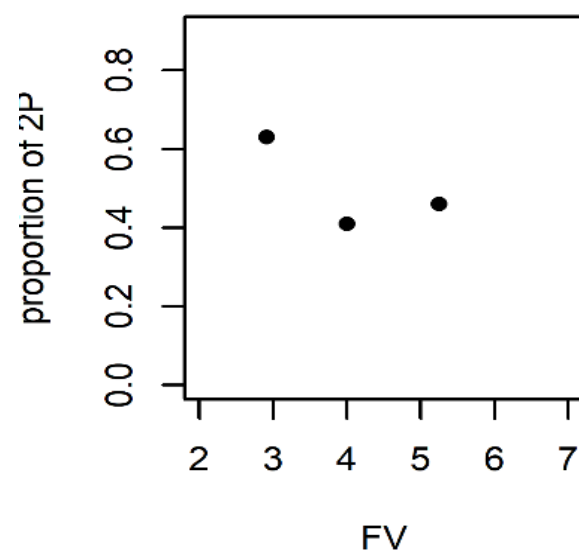
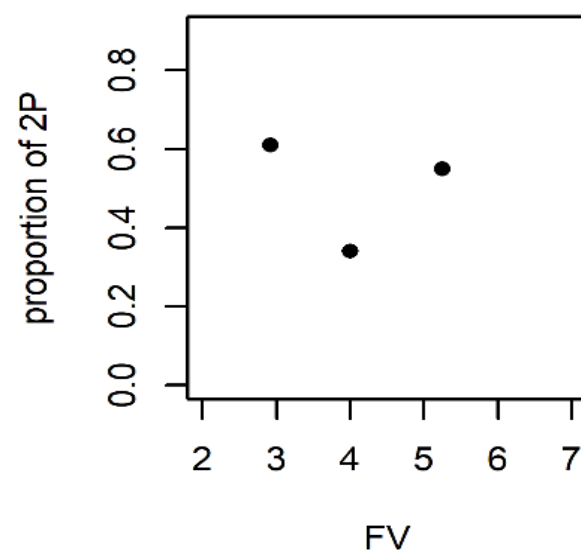
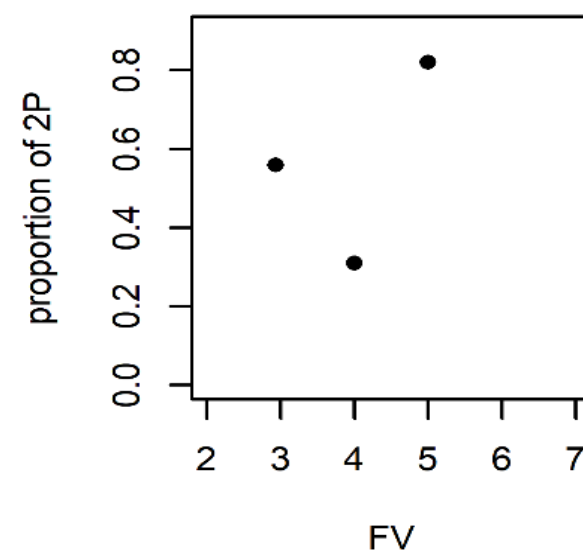
Language material

- the *Olomouc Bible* (Bible olomoucká, BiblOl) and one book (Acts) from *Litoměřice-Třeboň Bible* (Bible litoměřicko-třeboňská, BiblLitTřeb)
- the beginning of 15th century
 - however, it is considered to be copied from missing older translation from 1360
- one of the oldest Old Czech **prose** texts
- Old Testament:
 - Genesis (Gen), Isaiah (Is), Job (Job), Ecclesiastes (Ecc)
- New Testament:
 - Gospel of St. Matthew (Mt), Gospel of St. Luke (Lk), Acts (Act), and Revelation (Rev)

Results

FV	2P	non-2P	proportion of 2P
2	2	18	0.1
3	133	75	0.64
4	81	117	0.41
5	47	49	0.49
6.13	14	18	0.44



Act**Lk****Mt****Gen****Job****Ecc**

VF_{Act}	2P_{Act}	non-2P_{Act}	proportion of 2P_{Act}	VF_{Lk}	2P_{Lc}	non-2P_{Lk}	proportion of 2P_{Lk}
2	2	18	0.1	2.86	20	16	0.56
3	133	75	0.64	4	18	18	0.5
4	81	117	0.41	5.16	8	11	0.42
5	47	49	0.49				
6.13	14	18	0.44				
VF_{Mt}	2P_{Mt}	non-2P_{Mt}	proportion of 2P_{Mt}	VF_{Gen}	2P_{Gen}	non-2P_{Gen}	proportion of 2P_{Gen}
2.95	15	6	0.71	2.91	20	12	0.63
4	7	12	0.37	4	13	19	0.41
5.64	5	9	0.36	5.25	11	13	0.46
VF_{Job}	2P_{Job}	non-2P_{Job}	proportion of 2P_{Job}	VF_{Ecc}	2P_{Ecc}	non-2P_{Ecc}	proportion of 2P_{Ecc}
2.92	23	15	0.61	2.93	34	27	0.56
4	11	21	0.34	4	12	27	0.31
5.25	11	9	0.55	5	9	2	0.82

Conclusions

- the hypothesis is not falsified for “narrative” books
- the hypothesis is falsified for “poetic” books
 - the poetic character of texts → a border condition which restricts the validity of the hypothesis
- the hypothesis is falsified for a mixture of texts