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Parts of speech and dependent clauses: A typological study

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APPENDIX II: EXCLUDED PARTS OF SPEECH SYSTEMS

The following parts of speech systems are predicted not to occur in any language, because they violate one or more of the constraints developed in Chapter 2 as part of the implicational map model of parts of speech. These constraints are repeated below for convenience. Note that the constraints are numbered in the same way as in Chapter 2, in order to facilitate comparison with the predicted systems discussed there. The PoS systems are simply numbered (1)* through (34)*. The asterixes are added to indicate that these are ‘forbidden’ systems.

- (11) Predication \subset Reference
- If a language has a rigid class of lexemes that can be used as the head of a referential phrase, it must also have a rigid class of lexemes that can be used as the head of a predicate phrase.
 - If a language has a flexible class of lexemes that can be used as the head of a referential phrase (but not as the head of a predicate phrase, since then the restriction becomes irrelevant), it must also have a flexible or rigid class of lexemes that can be used as the head of a predicate phrase.
- (12) Head \subset Modifier
- If a language has a rigid class of lexemes that can be used as the modifier within a phrase, it must also have a rigid class of lexemes that can be used as the head of that phrase.
 - If a language has a flexible class of lexemes that can be used as the modifier within a phrase (but not as the head of that phrase, since then the restriction becomes irrelevant), it must also have a flexible or rigid class of lexemes that can be used as the head of that phrase.
- (13) ((Predication/Reference) \subset (Head/Modifier))
- If a language has distinct (rigid or flexible) classes of lexemes for heads and modifiers within any phrase, then it must also have distinct (rigid or flexible) classes of lexemes for heads of predicate versus referential phrases.

The system in (1)* has a flexible class of lexemes (non-verbs) that can be used as the head of a referential phrase, but no class of lexemes that can be used as the head of a predicate phrase (verbs). Thus, it violates constraint (11b) above. Furthermore, it has a flexible class of lexemes that can be used as a modifier in a predicate phrase, but no class of lexemes that can be used as the head of a predicate phrase. Thus, it also violates constraint (12b).

(1)*

	Head	Modifier
Predication	-	
Reference	Non-verb	

The system in (2)* is excluded on the basis of constraint (12b): It has a flexible class of lexemes that can be used as the modifier (but not the head) in a referential phrase, and no corresponding class of heads.

(2)*

	Head	Modifier
Predication		Flex
Reference	-	

The system in (3)* is excluded because it has a rigid head class in the referential, but not in the predication domain. As such, it violates constraint (11a).

(3)*

	Head	Modifier
Predication		Flex
Reference	Noun	

The system in (4)* involves a rigid modifier class in the referential domain without the corresponding rigid head class and thus violates (12a). In addition, it has distinct classes for heads and modifier in the referential domain, without distinct classes of heads of predicative versus referential phrases. Thus, it also violates (13).

(4)*

	Head	Modifier
Predication	Flex	
Reference		Adjective

The system in (5)* is excluded because it violates constraint (12a) in the predication domain, where there is a rigid class for modifiers, but no rigid class for heads. This system also violates constraint (13), since it has distinct classes for heads and modifiers in the referential domain, but no distinct classes for heads of predicate versus referential phrases.

(5)*

	Head	Modifier
Predication	Flex	Manner adverb
Reference		

The system in (6)* is excluded because it has a class of flexible lexemes that can be used as the head of a referential phrase, but no class of lexemes that can be used as the head of a predicate phrase. Thus, it violates constraint (11b).

(6)*

	Head	Modifier
Predication	-	-
Reference	Nominal	

The system in (7)* violates two constraints: (11b) because it has a flexible class of lexemes that can be used as the head of a referential phrase, but no class of lexemes that can be used as the head of a predicate phrase. And (12a) because it has a rigid class of modifiers in the predication domain, but not the corresponding heads.

(7)*

	Head	Modifier
Predication	-	Manner adverb
Reference	Nominal	

The system in (8)* violates constraint (12b): It has a flexible class of modifiers, but no heads.

(8)*

	Head	Modifier
Predication	-	Modifier
Reference	-	

The system in (9)* is excluded because it violates constraint (13): There is a lexical distinction between heads and modifiers in the predication domain, but there are no distinct classes for heads of predicative versus referential phrases. In addition, it violates constraint (12b) in the referential phrase, where modifiers can be expressed lexically, but not heads.

(9)*

	Head	Modifier
Predication	Verb	Modifier
Reference	-	

The system in (10)* is also excluded because it violates constraint (13) and constraint (12b) (but this time in the predication domain). In addition, constraint (11a) is violated: this system has a rigid class of heads for referential but not for predicate phrases.

(10)*

	Head	Modifier
Predication	–	Modifier
Reference	Noun	

The system in (11)* violates constraint (13): There is lexical distinction between heads and modifiers, but there are no distinct classes for heads of predicate versus referential phrases.

(11)*

	Head	Modifier
Predication	Head	Modifier
Reference		

The system in (12)* is excluded because it has two rigid classes of modifiers, without the corresponding rigid classes of heads. As such it violates constraint (12a) in both the predication and the reference domain.

(12)*

	Head	Modifier
Predication	Head	Manner adverb
Reference		Adjective

The system in (13)* is excluded because it violates constraint (12a) in the predication domain: It has a class of rigid lexemes that can be used as the modifier in a predicate phrase, but no rigid class for heads of predicate phrases.

(13)*

	Head	Modifier
Predication	Head	Manner adverb
Reference		–

The system in (14)* also violates constraint (12a), but in the referential domain, where it has a rigid class of modifiers, but no rigid class for heads.

(14)*

	Head	Modifier
Predication		–
Reference	Head	Adjective

The system in (15)* violates constraint (11a): It has a rigid class of heads in the referential but not in the predication domain.

(15)*

	Head	Modifier
Predication	Predicative	
Reference	Noun	Adjective

For the same reason, the system in (16)* is excluded:

(16)*

	Head	Modifier
Predication	Predicative	
Reference	Noun	–

The system in (17)* violates constraint (12a): It has a class of rigid modifiers in the reference domain, but not the corresponding rigid class of heads.

(17)*

	Head	Modifier
Predication	Predicative	
Reference	–	Adjective

The system in (18)* involves a flexible class of lexemes that can be used as the head of a referential phrase and as a modifier in a predicate phrase (Flex C). It is excluded because it violates constraint (12a) in the reference domain, where it has a rigid modifier class without a rigid head class.

(18)*

	Head	Modifier
Predication	Verb	Flex C
Reference	Flex C	Adjective

The system in (19)* is excluded because it violates four constraints. It violates constraint (11b) because it has a flexible lexeme class that can be used as the head of a referential phrase, but no lexeme class for heads of predicate phrases. In addition, this system violates constraint (12a) in the reference domain, since it has a specialized class of lexemes for referential modifiers, but no specialized class for referential heads. It also violates constraint (12b), because it has a flexible class of lexemes that can be used as the modifier (but not the head) of a predicate phrase, without a lexical class for heads of predicate phrases. Finally, this system violates constraint (13): it has distinct classes for heads and modifiers in referential phrases, but no distinct class for heads of predicate phrases as opposed to referential phrases.

(19)*

	Head	Modifier
Predication	–	Flex C
Reference	Flex C	Adj

The system in (20) is excluded because it violates (11b): it has a flexible lexeme class that can be used as the head of a referential phrase, and as a modifier in a predicate phrase, but no lexical means to express the head of a predicate phrase. In addition, this system violates constraint (12b) in the predication domain, where it has a flexible lexeme class that can be used for modification, but no class for heads.

(20)*

	Head	Modifier
Predication	–	Flex C
Reference	Flex C	–

The system in (21)* involves a flexible lexeme class that can be used as the head of a predicate phrase and as a modifier in a referential phrase. It is excluded because it violates constraint (11a): It has a rigid class of heads in the referential, but not in the predication domain. In addition, it violates constraint (12a) in the predication domain, where it has a rigid modifier class but no rigid head class.

(21)*

	Head	Modifier
Predication	Flex D	Manner adverb
Reference	Noun	Flex D

The system in (22)* is excluded because it violates constraint (11a): It has a rigid class of heads in the referential, but not in the predication domain.

(22)*

	Head	Modifier
Predication	Flex D	–
Reference	Noun	Flex D

The system in (23)* is excluded because it violates constraint (12a) in the predication domain, where it has a rigid class of modifiers, but a flexible class for heads. In addition, this system violates constraint (12a) in the reference domain: it has a flexible lexeme class that can be used as a modifier in a referential phrase, but no lexical means to express the function of head of that phrase. Finally this system violates constraint (13): it has distinct classes for heads and modifiers in the predication domain, but no distinct classes for heads of referential phrases, as opposed to predicate phrases.

(23)*

	Head	Modifier
Predication	Flex D	Manner adverb
Reference	–	Flex D

The system in (24)* violates constraint (12b), since it has a flexible lexeme class that can be used as a modifier in a referential phrase, but no lexeme class that can be used as the head of that phrase.

(24)*

	Head	Modifier
Predication	Flex D	–
Reference	–	Flex D

The system in (25)* is excluded since it has only one rigid class of heads, but in the reference rather than in the predication domain. As such it violates constraint (11a).

(25)*

	Head	Modifier
Predication	–	–
Reference	Noun	–

The system in (26)* has a rigid class of modifiers in the referential domain, without the corresponding rigid class of heads. As such it violates constraint (12a).

(26)*

	Head	Modifier
Predication	–	–
Reference	–	Adjective

The system in (27)* also violates constraint (12a), since it has a rigid class of modifiers without the corresponding rigid class of heads, but this time in the predication rather than the reference domain.

(27)*

	Head	Modifier
Predication	–	Manner adverb
Reference	–	–

The system in (28)* has distinct classes of heads and modifiers in the predication domain, while it does not have distinct classes for heads of predicative versus referential phrases. Thus, constraint (13) is violated.

(28)*

	Head	Modifier
Predication	Verb	Manner adverb
Reference	–	–

The system in (29)* violates constraint (12a), since it has a rigid class of modifiers in the reference domain, without the corresponding rigid class of heads. In addition, this system violates constraint (13) because it has distinct classes of heads and modifiers in the predicate domain, but no distinct classes for heads of referential phrases, as opposed to predicate phrases.

(29)*

	Head	Modifier
Predication	Verb	Manner adverb
Reference	–	Adjective

The system in (30)* is excluded because it violates (12a) in the reference domain, where it has rigid modifiers without any class for heads.

(30)*

	Head	Modifier
Predication	Verb	–
Reference	–	Adjective

The system in (31)* violates two constraints: (11a), since it has a single rigid class of heads, but not in the predication domain. And (13), since it has a head-modifier distinction in the referential domain, but no distinct classes of lexemes for heads of predicative versus referential phrases.

(31)*

	Head	Modifier
Predication	–	–
Reference	Noun	Adjective

The system in (32)* also violates two constraints: It has a single rigid class of heads, but not in the predication domain, so that (11a) is violated. Furthermore, (12a) is violated in the predication domain, for which the system has a rigid modifier class without the corresponding rigid head class.

(32)*

	Head	Modifier
Predication	–	Manner adverb
Reference	Noun	–

The system in (33)* violates constraint (11a), since it has a rigid class for heads in the referential but not in the predication domain. It violates (12a), since it has a rigid modifier class in the predication domain but no rigid head class in that domain. And it violates (13), because it has a head-modifier distinction in the referential domain, but no distinct classes for heads of predicative versus referential phrases.

(33)*

	Head	Modifier
Predication	–	Manner adverb
Reference	Noun	Adjective

The system in (34)* has two rigid classes of modifiers, without the corresponding rigid classes of heads, so that (12a) is violated in both the predication and the reference domain.

(34)*

	Head	Modifier
Predication	–	Manner adverb
Reference	–	Adjective