Syntax

Pavel Caha

1 Nov 2021

Recap

Noun phrase

Does the mirror principle describe differences among languages?

Head movement

Chosing between head-movement and affix hopping

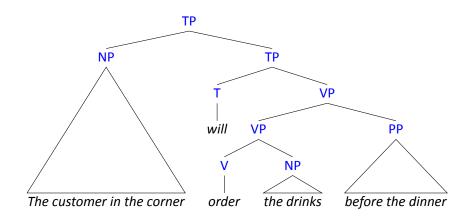
Back to Czech

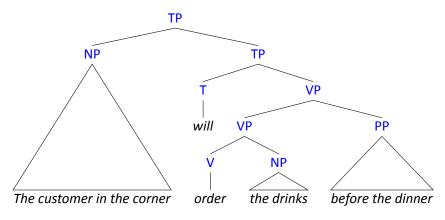
Constituency tests

- (1) Constituents can be
 - a. replaced by a pronoun
 - b. moved around
 - c. provided as an answer to a question
 - d. co-ordinated
 - e. elided

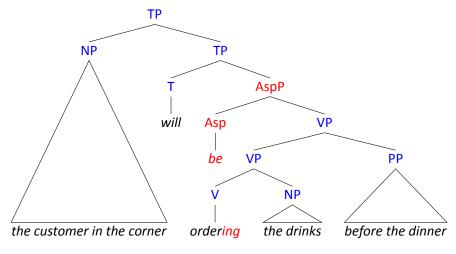
Constituency tests

- (1) Constituents can be
 - a. replaced by a pronoun
 - b. moved around
 - c. provided as an answer to a question
 - d. co-ordinated
 - e. elided
- (2) The head
 - a. determines the type of meaning
 - b. determines the distribution of the whole
 - c. determines the form of the sister node

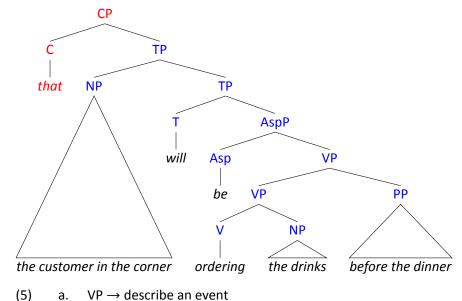




- (3) a. $VP \rightarrow describe$ an event
 - b. $TP \rightarrow$ anchor it in time with respect to the speech time



- (4) a. $VP \rightarrow describe$ an event
 - b. AspP \rightarrow perspective: event seen from inside/outside
 - c. $TP \rightarrow anchor it in time with respect to the speech time$



(5) a. VP → describe an event
 b. AspP → perspective: event as a whole/part of the event

d.

c. TP \rightarrow anchor it in time with respect to the speech time

 $CP \rightarrow the anchored event is a fact/wish/query/condition$

(6) a. objedn -at order -INF 'to order'

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b. objedn -áv -at order -PROG -INF 'to be ordering'

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 - b. objedn -áv -at order -PROG -INF 'to be ordering'
 - c. objedn -**áv** -á -**š** order -PROG -PRES -**2**.SG 'you are ordering'

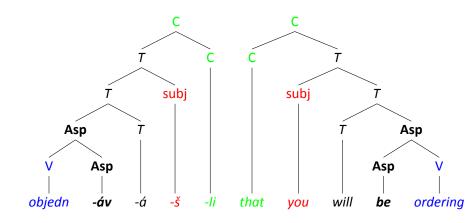
- (6) a. objedn -at order -INF 'to order'
 - b. objedn -áv -at order -PROG -INF 'to be ordering'
 - c. objedn -áv -á -š order -PROG -PRES -2.SG 'you are ordering'
 - d. objedn -áv -á -m order -PROG -PRES -1.SG 'I am ordering'

- (6)a. objedn -at order -INF 'to order' b. objedn -**áv** -at order -PROG-INF 'to be ordering' objedn -áv -á -š order -PROG -PRES -2.SG 'you are ordering' objedn -áv -á -m d. order -prog -pres -1.sg 'I am ordering'
 - e. objedn -áv -á -š -li order -PROG -PRES -2.SG -COND 'if you are ordering'

- (7) objedn -áv -á -š -li order -PROG -PRES -2.SG -COND 'if you are ordering'
- (8) Czech order
 event > asp > tense > subject > mood

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 event > asp > tense > subject > mood
- (9) English order:
 that you will be ordering the drinks
 mood > subject > tense > aspect > event

- (7) objedn -áv -á -š -li order -PROG -PRES -2.SG -COND 'if you are ordering'
- (8) Czech order
 event > asp > tense > subject > mood
- (9) English order: that you will be ordering the drinks mood > subject > tense > aspect > event
 - ► The English order is the mirror image of the Czech one



- (10) The Mirror Principle
 - a. The order of morphemes inside words is the mirror image of the order of words in syntax

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 - a. The order of morphemes inside words is the mirror image of the order of words in syntax
 - b. The order of morphemes mirrors the syntactic derivation

Recap

Noun phrase

Does the mirror principle describe differences among languages?

Head movement

Chosing between head-movement and affix hopping

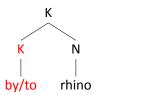
Back to Czech

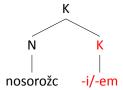
(11) a. nosorožec rhino

- (11) a. nosorožec rhino
 - b. nosorožc -em rhino INS 'by (the) rhino'

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 - c. nosorožc -i rhino DAT 'to (the) rhino'

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a. nosoržc -em rhino -INS

- a. nosoržc -em rhino -INS
- b. nosoržč -et -em rhino -BABY -INS 'by (the) baby rhino'

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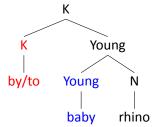
c. nosoržc -i rhino -DAT

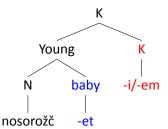
- a. nosoržc -em rhino -INS
- b. nosoržč -et -em rhino -BABY -INS 'by (the) baby rhino'

- c. nosoržc -i rhino -DAT
- d. nosoržč -et -i rhino -BABY -DAT 'to (the) baby rhino'

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- b. nosoržč -et -em rhino -BABY -INS 'by (the) baby rhino'

- c. nosoržc -i rhino -DAT
- d. nosoržč -et -i
 rhino -BABY -DAT
 'to (the) baby rhino'

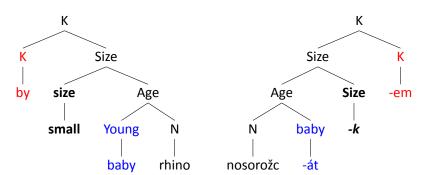




a. nosoržč -et -em rhino -BABY -INS 'by (the) baby rhino'

- a. nosoržč -et -em rhino -BABY -INS 'by (the) baby rhino'
- b. nosoržč -át -k -em
 rhino -BABY -SMALL -INS
 'by (the) small baby rhino'

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- b. nosoržč -át -k -em
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 - 'anchor' the object in space (these/those)

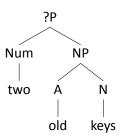
- (14) (you can open the lock) with these two old keys
 - describe the thing by listing its properties (old keys)
 - say how many they are (two)
 - 'anchor' the object in space (these/those)
 - say what role this object has in the event (with = instrument)

(15) (you can open the lock) with these two old keys

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(16) (you can open the lock) with these two old keys



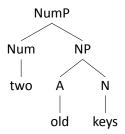
(17) He wants to sell (one thousand) apples

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- (18) a. Chce prodat (*tisíc) jabka he.wants to.sell one.thousand apples

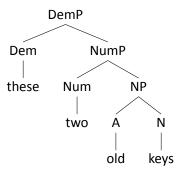
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 - b. Chce prodat tisíc jablek he.wants to.sell one.thousand apples
 - c. ??Chce prodat jablek he.wants to.sell apples

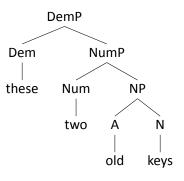
(19) (you can open the lock) with these two old keys



(20) (you can open the lock) with these two old keys

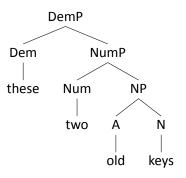


(20) (you can open the lock) with these two old keys



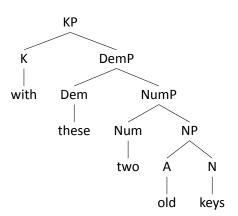
(21) a. *He found key

(20) (you can open the lock) with these two old keys

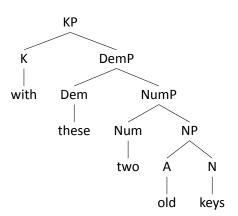


- (21) a. *He found key
 - b. He found { the / this } key

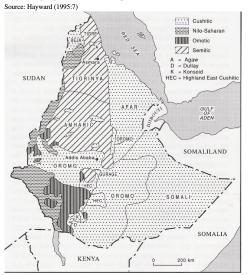
(22) (you can open the lock) with these two old keys

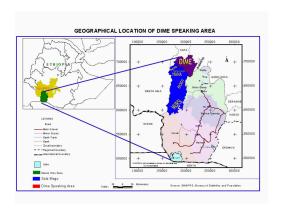


(22) (you can open the lock) with these two old keys



Major language families in Ethiopia





Nouns and nominal categories

43

The definite marker -is may optionally be changed to -iz when following voiced consonants. Examples:

11. [**?éh-îs**] 'the house [**gášš-ìs**] 'the road'

[**?ámz-iz**] 'the woman' [**zúùb-iz**] 'the red one'

Generally, definiteness is marked at the end of the noun. With the exception of the accusative marker -im, other grammatical morphemes precede it.

12a. **?éh-áf-is** 'the houses' dər-áf-is 'the goats'

12b. **?até guur-af-is-im deis-i-t** 1S.SUBJ corocodile-**PL-DEF-ACC** kill-PF-1

'I killed the crocodiles'

13.2.4 Text 4: The selection of a chief in Dime

This story was told by Miakro Gizachew Keto on December 26, 2003, Ethiopia.

001. zimé wondéébis wutódéé tussiné gašká

zimé won-déé-b-is wutó-déé tussiné gaš-ká chief be-IPF-M.RELT-DEF beg-IPF heriditary road-INST

zimé wókkilub la¤t'inká nitsafisódé wókkilim

zimé wókkil-ub laʁt'-inká níts-af-is-ó-dé wókkil-im chief one-REL(M) die-REAS child-PL-DEF-LOC-ABL one-ACC

wuddéén nitsafisóde wutunub nitsis

wud-déé-n nits-af-is-ó-de wutun-ub nits-is assign-IPF-3 child-PL-DEF-LOC-ABL begin-M.RELT child-DEF

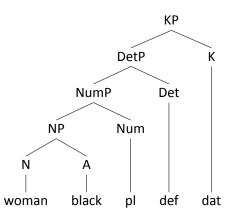
zimîn

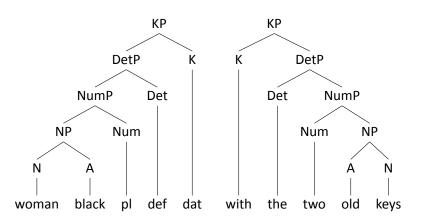
zim-in

chief-DAT

'A chief is selected according to his degree of kinship with the previous chief. When a chief dies, one of his sons will be assigned to succeed him as the next chief. Normaly the eldest son of a chief is assigned to inherit his father's role as a chief'.

25. nú ?ámz-af s'án-id-is-in meh-im 7im-i-n
3MS.SUBJwoman-PL black-PL-DEF-DAT money-ACC give-PF-3
'He gave money to the black women.'





Recap

Noun phrase

Does the mirror principle describe differences among languages?

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Back to Czech

(23) a. jeden velký starý stůl one big old table 'number > size > age > thing'

- (23) a. jeden velký starý stůl one big old table 'number > size > age > thing'
 - b. nosorožč -át -k -arhino -BABY -SMALL -PL / -SG'number < size < age < thing'

- (23) a. jeden velký starý stůl one big old table 'number > size > age > thing'
 - b. nosorožč -át -k -arhino -BABY -SMALL -PL / -SG'number < size < age < thing'
 - c. nosorožč -át -k -o rhino -BABY -SMALL -SG 'number < size < age < thing'

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 - c. nosorožč -át -k -o rhino -BABY -SMALL -SG 'number < size < age < thing'
 - ► It is not only something that differentiates languages
 - ► It is also about word/affix difference within a single language

- It is not a difference between languages
- ► It is about word/affix difference
- (24) a. jestli Petr bude běhat, ... if Petr will run 'mood > subject > tense > event'

- ► It is not a difference between languages
- ► It is about word/affix difference
- (24) a. jestli Petr bude běhat, ... if Petr will run 'mood > subject > tense > event'
 - b. běh -á -te -li, ...run -PRES -YOU.PL -IF'mood < subject < tense < event'

Recap

Noun phrase

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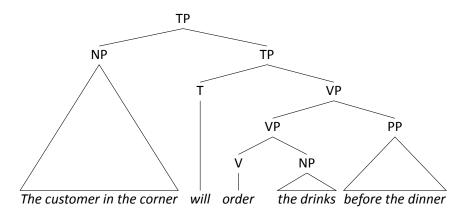
Head movement

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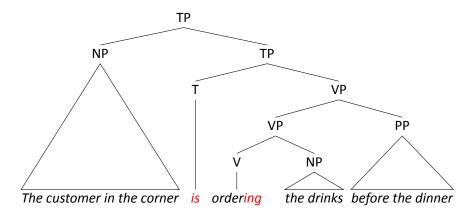
Back to Czech

(25) The customer in the corner is ordering the drinks.

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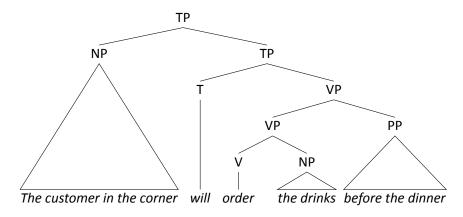


(25) The customer in the corner is ordering the drinks.

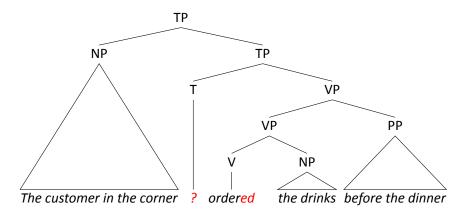


(26) The customer in the corner ordered the drinks.

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Past Tense Slavic

	slovene			Czech	Russian	
	AUX	participle	AUX	participle	Aux	participle
1.sg	sem	jedla				
2.sg	si	jedla				
3.sg	je	jedla				

Past Tense Slavic

	slovene		Czech		Russian	
	AUX	participle	AUX	participle	Aux	participle
1.sg	sem	jedla	jsem	jedla		
2.sg	si	jedla	jsi	jedla		
3.sg	je	jedla	Ø	jedla		

Past Tense Slavic

	slovene		Czech		Russian	
	AUX	participle	AUX	participle	Aux	participle
1.sg		jedla	jsem	jedla	Ø	jela
2.sg	si	jedla	jsi	jedla	Ø	jela
3.sg	je	jedla	Ø	jedla	Ø	jela

Past Tense Slavic

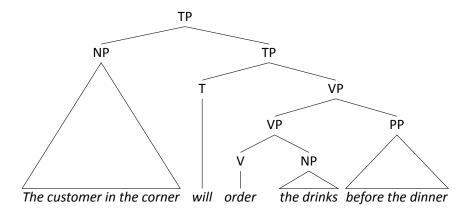
	slovene		Czech		Russian	
	AUX	participle	AUX	participle	Aux	participle
1.sg		jedla	jsem	jedla	Ø	jela
2.sg	si	jedla	jsi	jedla	Ø	jela
3.sg	je	jedla	Ø	jedla	Ø	jela

English

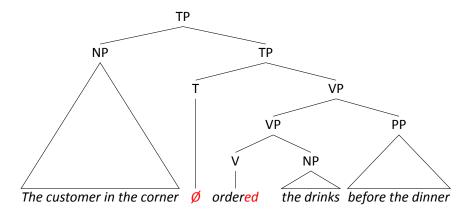
	<u> </u>						
	AUX	participle	AUX	participle			
1.sg	Ø	slept	have	slept	İ		
2.sg	Ø	slept	have	slept	İ		
3.sg	Ø	slept	has	slept	İ		

(27) The customer in the corner ordered the drinks.

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(27) The customer in the corner ordered the drinks.

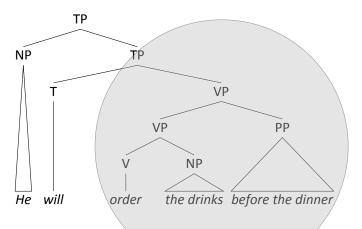


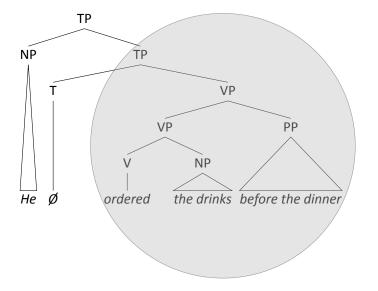
ellipsis

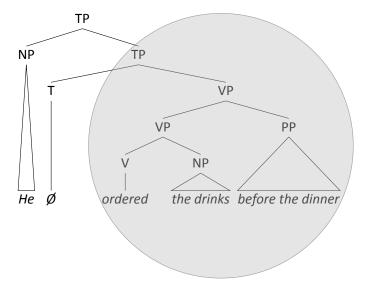
- (28) A: The customer in the corner will order the drinks before the meal.
- (29) B: Actually, I wouldn't be so sure that he will —.

ellipsis

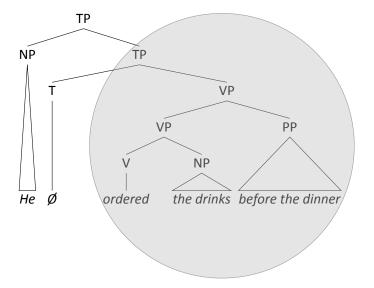
- (28) A: The customer in the corner will order the drinks before the meal.
- (29) B: Actually, I wouldn't be so sure that he will -.





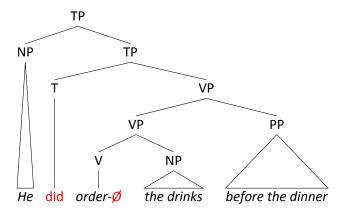


- (30) A: The customer in the corner \emptyset order-ed the drinks.
- (31) B: *Actually, I wouldn't be so sure that he \emptyset —.

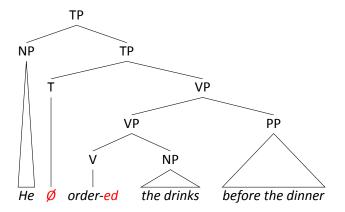


- (30) A: The customer in the corner \emptyset order-ed the drinks.
- (31) B: Actually, I wouldn't be so sure that he did —.

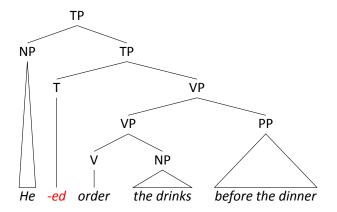
Structure 1



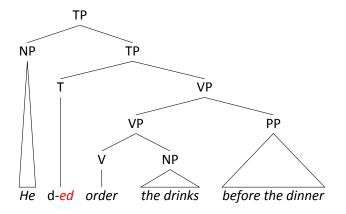
Structure 2



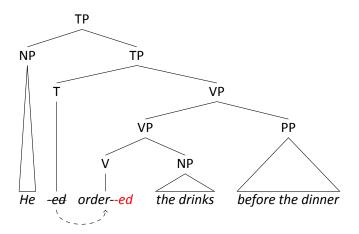
Both structures are the realization of an 'underlying' structure



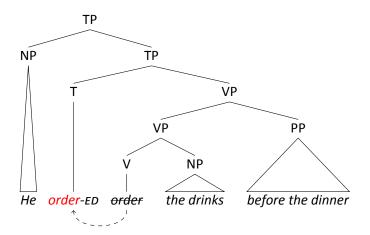
Rescue 1: Expletive insertion



Rescue 2a: Affix Hopping



Rescue 2b: Head movement



Recap

Noun phrase

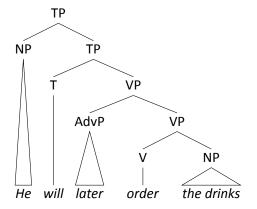
Does the mirror principle describe differences among languages?

Head movement

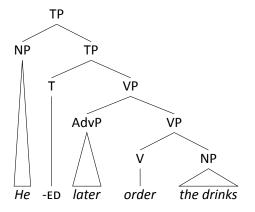
Chosing between head-movement and affix hopping

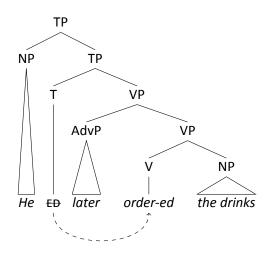
Back to Czech

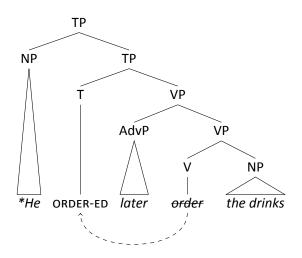
Introducing an adverb



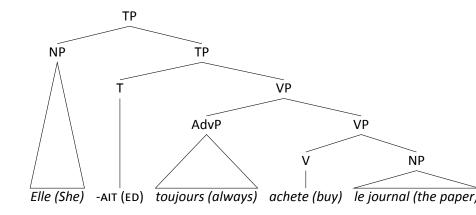
Adverb and lowering

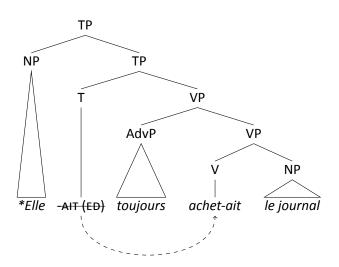


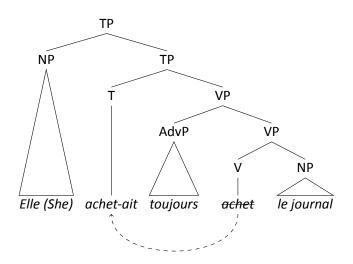


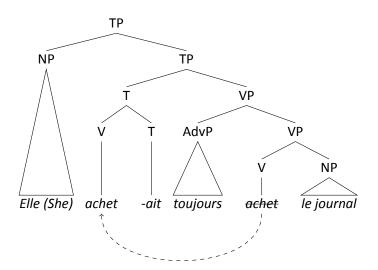


French









(32) When a head is an affix...

- (32) When a head is an affix...
 - a. Rescue 1: insert an expletive

- (32) When a head is an affix...
 - a. Rescue 1: insert an expletive
 - b. Rescue 2: move something

- (32) When a head is an affix...
 - a. Rescue 1: insert an expletive
 - b. Rescue 2: move something
 - (i) move the affix = affix hopping

- (32) When a head is an affix...
 - a. Rescue 1: insert an expletive
 - b. Rescue 2: move something
 - (i) move the affix = affix hopping
 - (ii) move the host = head movement

Recap

Noun phrase

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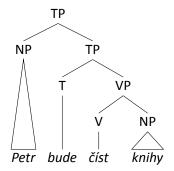
Head movement

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Back to Czech

Future tense

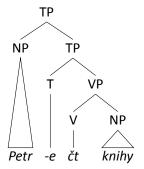
(33) Petr bude číst knihy. Petr will read books



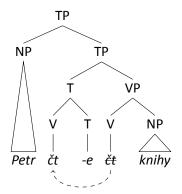
(34) a. Petr bude číst knihy. Petr will read books

- (34) a. Petr bude číst knihy. Petr will read books
 - b. Petr čt-e knihy
 Petr read -PRES books

- (34) a. Petr bude číst knihy. Petr will read books
 - b. Petr čt-e knihy
 Petr read -PRES books



- (35) a. Petr bude číst knihy. Petr will read books
 - b. Petr čt-e knihy Petr read-PRES books



(36) Conditional

a. **Čt-e** -li Petr knihy, ... reads-PRES -IF Petr books 'if Petr reads books, ...'

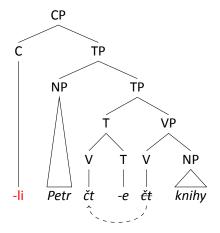
(36) Conditional

- a. **Čt-e** -li Petr knihy, ... reads-PRES -IF Petr books 'if Petr reads books, ...'
- b. Jest -li Petr čt-e knih-y
 be -textscif Petr read-PRES books

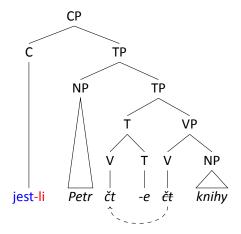
(36) Conditional

- a. **Čt-e** -li Petr knihy, ... reads-PRES -IF Petr books 'if Petr reads books, ...'
- b. Jest -li Petr čt-e knih-y
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Semantic/underlying structure



Expletive insertion



Semantic/underlying structure

