Licensed to license

Deficient probes in West Circassian nominalizations

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GLOW 46, University of Vienna



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bit.ly/ErshovaGLOW46



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Non-deficient probes result from licensing by the highest head in the extended projection $-C^0$.

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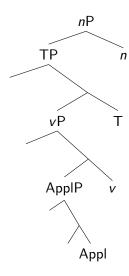
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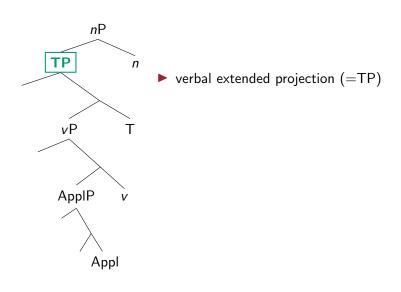
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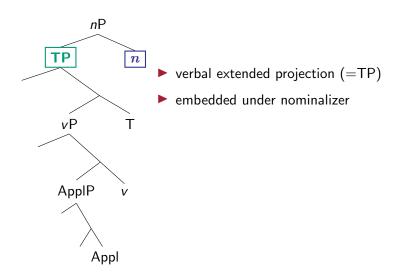
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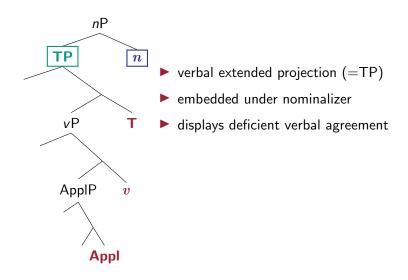
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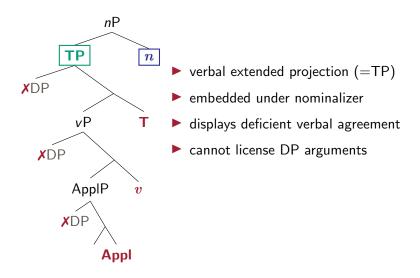
Evidence: deficient probes in West Circassian nominalizations.

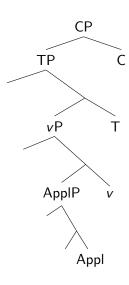




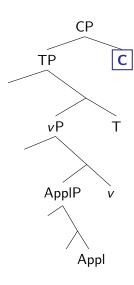




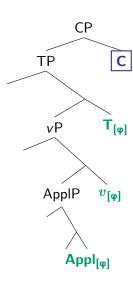




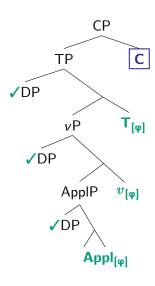
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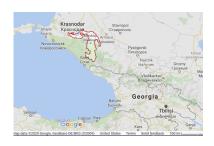
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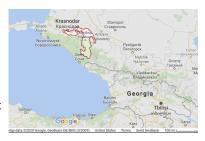
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Head marking and pro-drop:

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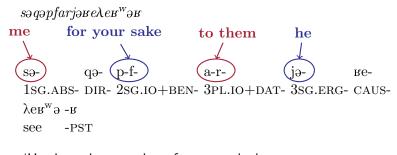
$$s$$
ә q ә $pfarj$ ә s е λe в $^{\mathrm{w}}$ ә s

sə- qə- p-f- a-r- jə- ве- 1sg.abs- dir- 2sg.io+ben- 3pl.io+dat- 3sg.erg- caus-
$$\lambda$$
eв -PST

'He showed me to them for your sake.'

(Korotkova and Lander 2010:301)

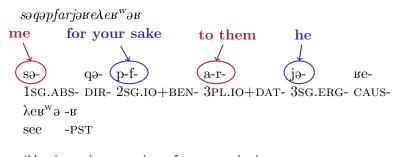
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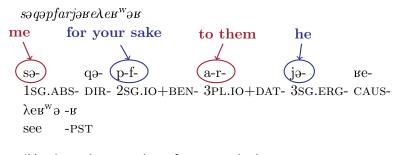
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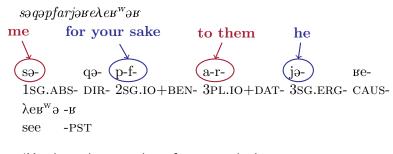
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Order of cross-reference markers:

ABS-

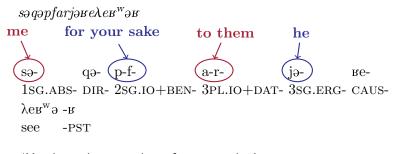
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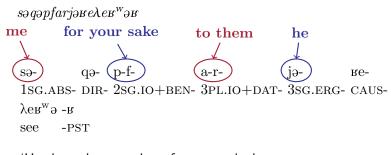
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-r (ABS):

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intransitive subject

\mathbf{S}

 $\begin{array}{ll} \text{mə p$\hat{s}a$\hat{s}e-r} & \text{daxew qa\hat{s}^{\text{w}}e$} \\ \text{this girl-${\tt ABS}$} & \text{well dances} \end{array}$

'This girl dances well.'

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O

sabəjxe-m haxe-r qa\(\text{ous-m}\) basəbəjxe-m dogs-\(\text{ABS}\) saw

'The children saw the dogs.'

- -r (ABS):
 - ► intransitive subject
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- -m (OBL):

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A C

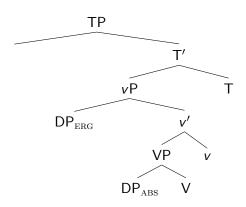
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IO

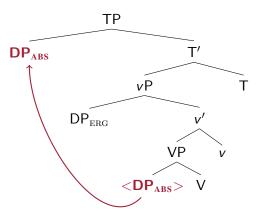
mafe-qes ježape-m sekwe day-each school-**OBL** go

'I go to school every day.'



 $(See \ also \ Bittner \ and \ Hale \ 1996; \ Manning \ 1996; \ Baker \ 1997; \ Aldridge \ 2008; \ Yuan \ 2018, \ 2022; \ Coon \ et \ al. \ 2021; \ Manning \ 1996; \ Baker \ 1997; \ Aldridge \ 2008; \ Yuan \ 2018, \ 2022; \ Coon \ et \ al. \ 2021; \ Manning \ 1996; \ Manning \ 1996; \ Manning \ 1996; \ Manning \ 1997; \ Aldridge \ 2008; \ Manning \ 1996; \ Manning \ 1997; \ Manning \ 1996; \ Manning \ 19$

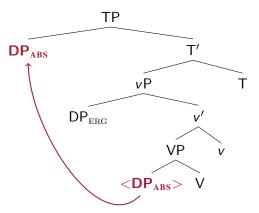
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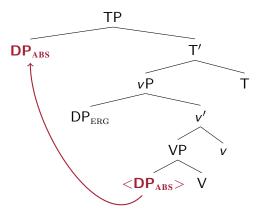
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= must be bound by a local c-commanding antecedent

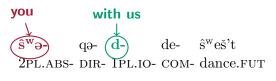
ABS external argument binds IO

$$\hat{\mathbf{s}}^{\mathbf{w}}$$
- qə- **d**- de- $\hat{\mathbf{s}}^{\mathbf{w}}$ eš't 2PL.ABS- DIR- 1PL.IO- COM- dance.FUT

BASELINE

'You(pl) will dance with us'

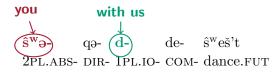
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```
axe-me ?eg<sup>w</sup>əb2e-r Ø- ze- r- a- təž'ə that.PL-OBL cup-ABS 3ABS- REC.IO- DAT- 3PL.ERG- give
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'They pass the cup to each other.'

(http://adyghe.web-corpora.net/)

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Reciprocal agreement does not affect transitivity

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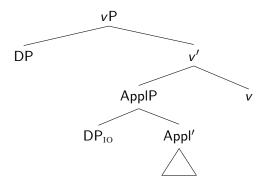
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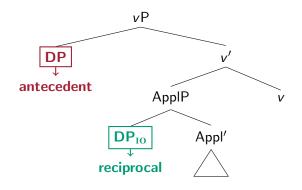
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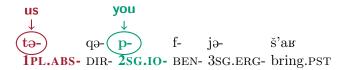
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ABS c-commands both ERG and IO.

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tə- qə- р- f- jə- š'ав
1PL.ABS- DIR- 2SG.IO- BEN- 3SG.ERG- bring.PST
```

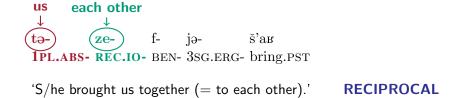
'S/he brought us to you.'

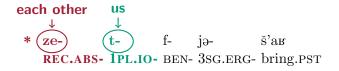
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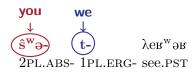




'S/he brought us together (= to each other).' **RECIPROCAL**

'We saw you(pl).'

BASELINE



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'We saw each other.'

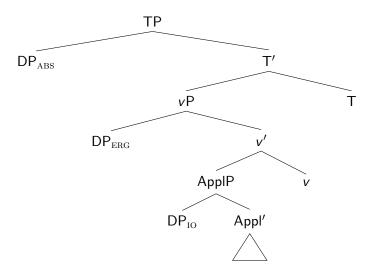
RECIPROCAL



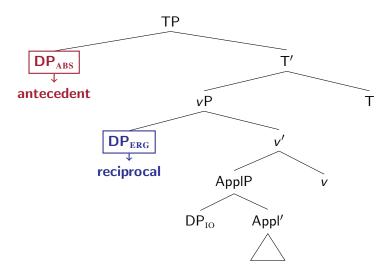
Intended: 'We saw each other.'

RECIPROCAL

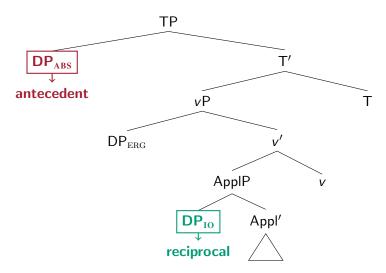
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Nominalizations include structure up to TP, but are deficient in ϕ -agreement and licensing without C^0 .

Roadmap

- ► Background on West Circassian
- ► Functional structure of nominalizations
- ightharpoonup ϕ -probe licensing by C^0
- Licensing arguments in nominalizations
- Conclusion

Noun phrase structure

```
tjə- še-n- xebze -daxe -xe -r
1PL.POSS- lead-NML rule -beautiful -PL -ABS
'our beautiful rules of conduct' (Ershova 2020:431)
```

Nominalizations bit.ly/ErshovaGLOW46

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Nominalizations bit.ly/ErshovaGLOW46

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- \blacktriangleright ϕ -agreement with possessor
- complements and modifiers incorporated

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Ershova (2020)

```
labe-xe-r Ø- s- e- thač'ə FINITE dish-PL-ABS 3ABS- 1SG.ERG- DYN- wash 'l am washing dishes.'
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Ershova (2020)

▶ arguments as possessors or incorporated

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Ershova (2020)

arguments as possessors or incorporated

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wjə- leʁe- thač'ə -č'e NOMINALIZATION
2SG.POSS- dish- wash -NML
'your manner of washing dishes'
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Ershova (2020)

▶ arguments as possessors or incorporated

⇒no verbal licensing/case

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laße-xe-r Ø- s- e- thač'ə FINITE dish-PL-ABS 3ABS- 1SG.ERG- DYN- wash 'I am washing dishes.'
```

```
wjə- leве- thač'ə -č'e NOMINALIZATION
2SG.POSS- dish- wash -NML
'your manner of washing dishes'
```

Ershova (2020)

- arguments as possessors or incorporated
 - ⇒no verbal licensing/case

ightharpoonup no verbal ϕ -agreement

```
ightarrow possessor \phi-agreement
```

```
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no verbal case/licensing

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Evidence:

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Evidence:

1. morphological reflexes of v^0 and Appl⁰

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Evidence:

- 1. morphological reflexes of v^0 and Appl⁰
- 2. temporal adverbs
- 3. deficient φ-agreement with anaphors
- 4. high absolutive

nominalizations include causatives

```
jə- xebze- \text{ke-} \text{kweda-}č'e 3SG.POSS- rule- CAUS- perish -NML 'its destruction (= causing to perish) of traditions'
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nominalizations include applicatives

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ja- haźwə- de- ǯegwə -č'e
3PL.POSS- puppy- COM- play -NML
'their way of playing with puppies'
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```

'their way of playing with puppies'

Nominalizations include temporal adverbs

'I'm tired of your going to the store every day.'

Nominalizations include temporal adverbs

```
[ \frac{\text{mafe-qes}}{\text{day-each}} wjə- \frac{\text{t}^{\text{w}}\text{e} - \text{n}}{\text{sieze}} sjezes'ər day-each 2SG.POSS- store- go -NML I am tired
```

'I'm tired of your going to the store every day.'

Compare with non-derived nouns:

* mafe-qes pjerjedač day-each broadcast

Intended: 'everyday program'

reciprocal agreement with applicative

► reciprocal agreement with applicative

axer Ø- ze-f- e-
$$g^w$$
ə?ež'ə -x they.
ABS 3ABS- REC.IO-BEN- DYN- endeavor -PL

'They work hard for each other.'

FINITE

reciprocal agreement with applicative

axer Ø- **ze-f-** e-
$$g^w \partial e \dot{z} - x$$
 they.ABS 3ABS- **REC.10-BEN-** DYN- endeavor -PL

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FINITE

reciprocal agreement with applicative

axer Ø-
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'They work hard for each other.'

TINITE

'their manner of working hard for each other' NOMINALIZATION

reciprocal agreement with applicative

axer Ø- **ze-f-** e-
$$g^w \partial e^{\dot{z}} \partial -x$$
 they.ABS 3ABS- **REC.IO-BEN-** DYN- endeavor -PL

'They work hard for each other.'

INITE

'their manner of working hard for each other' NOMINALIZATION

► reciprocal agreement with ergative

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Ø- qe- zer- e-
$$\mathrm{ge}$$
- gw e - z 'ə-x 3ABS- DIR- REC.ERG- DYN- CAUS- dance -RE -PL

'They are making each other dance.'

FINITE

► reciprocal agreement with ergative

Ø- qe-
$$\overline{zer}$$
- e- \overline{s}^w e - \overline{z} 'ə - x 3ABS- DIR- $\overline{REC.ERG}$ - DYN- CAUS- dance - \overline{RE} - \overline{PL}

'They are making each other dance.'

FINITE

reciprocal agreement with ergative

'They are making each other dance.'

FINITE

ja- qe- zere- ве-
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 - \check{c} 'e 3PL.POSS- DIR- REC.ERG- CAUS- dance -NML

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► reciprocal agreement with ergative

'They are making each other dance.'

FINITE

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'their manner of making each other dance' NOMINALIZATION

reciprocal agreement with ergative

$$\Rightarrow$$
 DP_{ABS} binds DP_{ERG}

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'their manner of making each other dance' NOMINALIZATION

reciprocal agreement with ergative

$$\Rightarrow$$
 DP_{ABS} binds DP_{ERG}
 \Rightarrow **high absolutive**

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FINITE

'their manner of making each other dance'

NOMINALIZATION



Functional structure of nominalizations: summary

✓ Nominalizations include a full TP:

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BUT:

× no full φ-agreement

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 - temporal adverbs
 - anaphor agreement

BUT:

- × no full φ-agreement
- no licensing of DP arguments

Deficient ϕ -probes in nominalizations

Deficient φ-probes in nominalizations

The puzzle

If nominalizations contain a full TP, why is the verbal syntax so diminished?

Deficient ϕ -probes in nominalizations

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If nominalizations contain a full TP, why is the verbal syntax so diminished?

▶ no full φ-agreement, only anaphor agreement

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The solution:

Deficient ϕ -probes in nominalizations

The puzzle

If nominalizations contain a full TP, why is the verbal syntax so diminished?

- no full φ-agreement, only anaphor agreement
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The solution:

Verbal φ -probes are present in nominalizations, but **they are deficient** in the absence of C^0 .

Roadmap

- ► Background on West Circassian
- ► Functional structure of nominalizations
- ightharpoonup ϕ -probe licensing by C^0
- ► Licensing arguments in nominalizations
- Conclusion

 ϕ -probes **must be licensed** to agree with and license nominal arguments.

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West Circassian nominalizations:

Contain structure up to TP, including verbal φ-probes

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West Circassian nominalizations:

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West Circassian nominalizations:

- Contain structure up to TP, including verbal φ -probes (Appl⁰, v^0 , and T⁰).
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transparent agglutinating morphology

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```
tə- q- jə- ʁe-č'ə-ž'
1PL.ABS- DIR- 3SG.ERG- CAUS-rise-again
```

's/he raised us again'

FINITE

Agreement prefixes expone separate φ -probes:

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which is retained in nominalizations

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FINITE

jə- qe- ʁe-č'ə-n

3SG.POSS- DIR- CAUS-rise-NML

'its raising' (http://adyghe.web-corpora.net/)

NOMINALIZATION
```

Multiple verbal φ-probes

Agreement prefixes expone separate φ -probes:

- transparent agglutinating morphology
- prefixes may be separated by non-agreement morphology which is retained in nominalizations

```
sheč'afe Ø- a- f- jə- şə-s'təʁ
respect 3ABS- 3PL.IO- BEN- 3SG.ERG- do-IPF.PST
```

'He was showing respect for them.'

FINITE

Multiple verbal φ-probes

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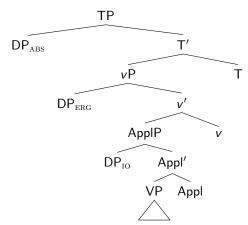
```
pš'ə- ŝheč'efe- fe- ṣ̂ə-č'e
prince- respect- BEN- do-NML
```

'showing respect for princes'

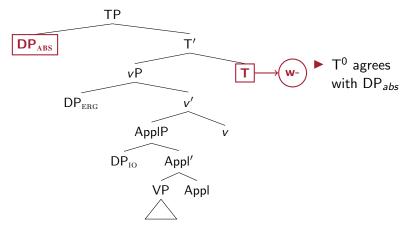
NOMINALIZATION

(http://adyghe.web-corpora.net/)

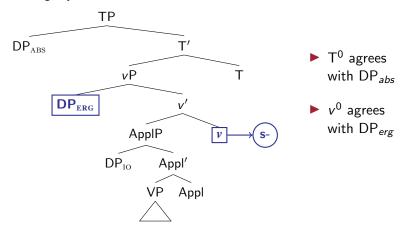
w- a-de- s- š'aʁ 2sg.abs- 3pl.io-com- 1sg.erg- bring.pst



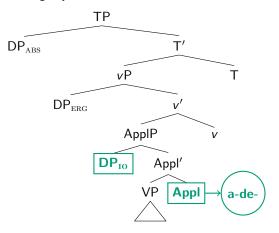
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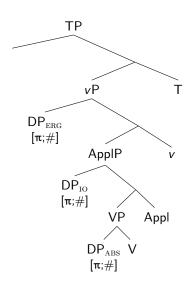


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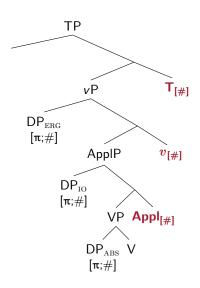


- ► T⁰ agrees with DP_{abs}
 - v^0 agrees with DP_{erg}
- Appl⁰ agrees with DP_{io}

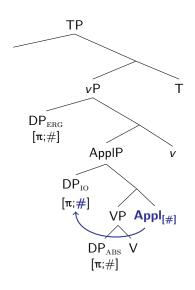
Full φ -agreement is licensed by C^0



- Appl⁰, v^0 and T^0 are merged deficient:
 - ✓ number X person

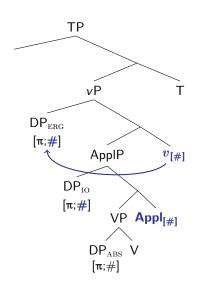


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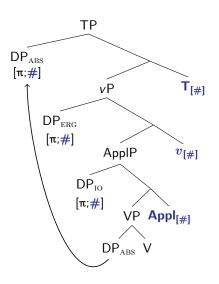
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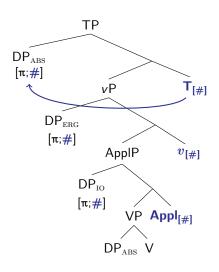
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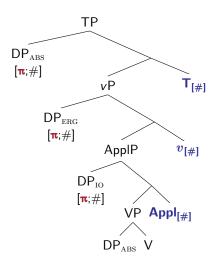
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- ► T^0 agrees with and attracts DP_{ABS} .

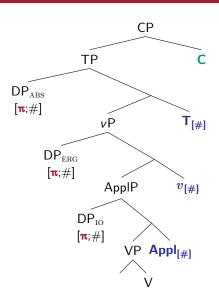


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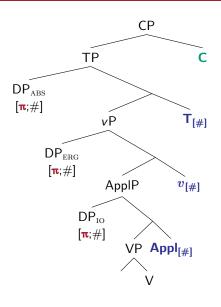
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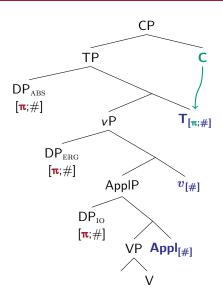
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- [π] on DP arguments is unchecked.



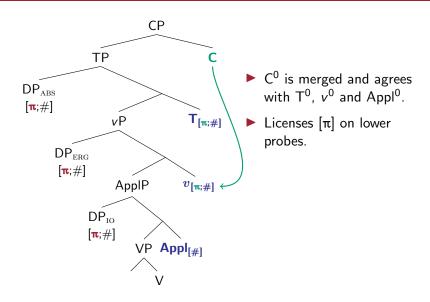
► C^0 is merged and agrees with T^0 , v^0 and Appl⁰.

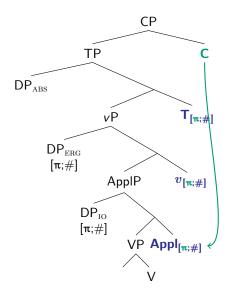


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- Licenses [π] on lower probes.

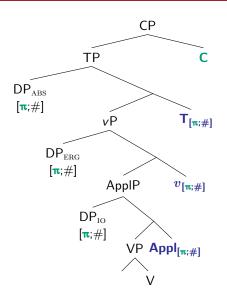


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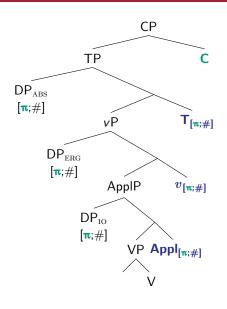




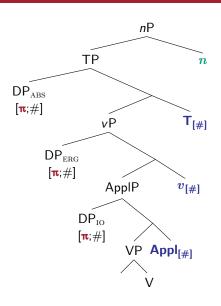
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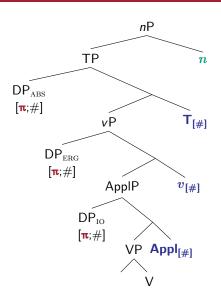
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- Probes check [π] on DPs and license them.



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- Probes check [π] on DPs and license them.
- Probes are spelled out with fully specified φ-features.

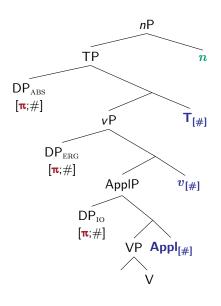


TP is embedded under n^0 :



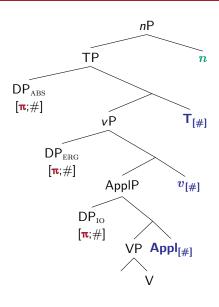
TP is embedded under n^0 :

Verbal probes remain deficient.



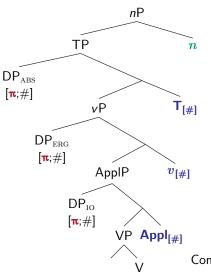
TP is embedded under n^0 :

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- [π] on DPs remains unchecked
 ⇒ DPs remain unlicensed.



TP is embedded under n^0 :

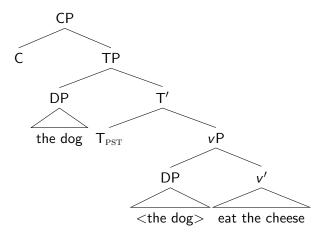
- Verbal probes remain deficient.
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 - No exponent for deficient [#] agreement
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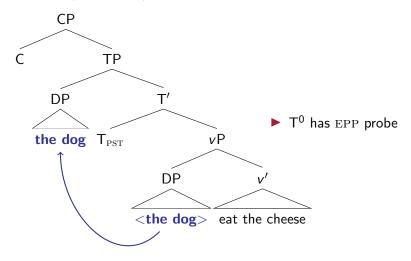


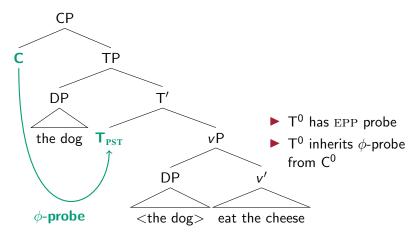
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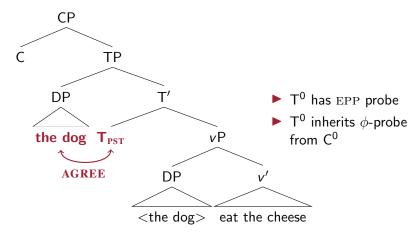
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Compare with C-to-T feature inheritance!

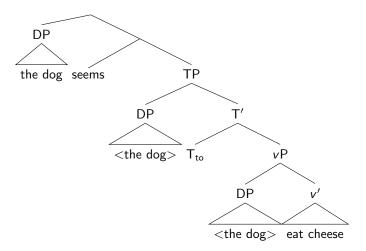


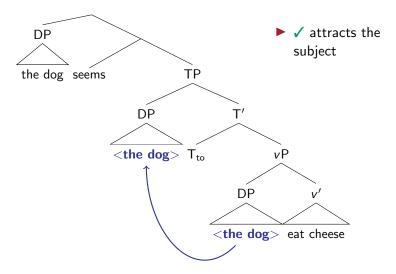


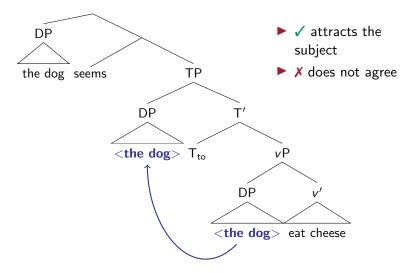


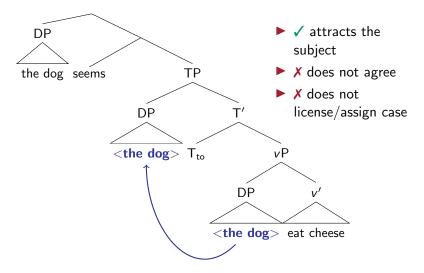


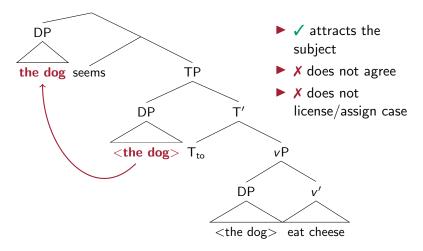
No C^0











Deficient [#] probes in nominalizations cannot license full DPs.

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Deficient agreement with anaphors

```
ja- <u>šene-</u> <u>ze-fe-</u> dəž'ə -n
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'their sewing of dresses for each other'

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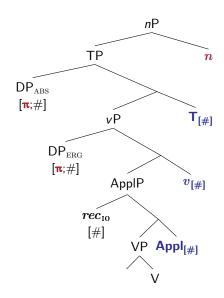
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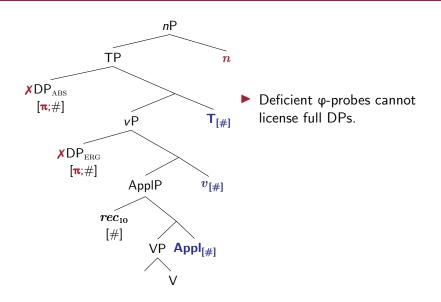
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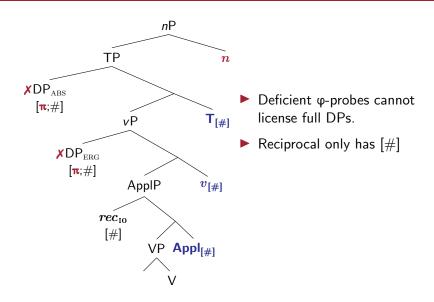
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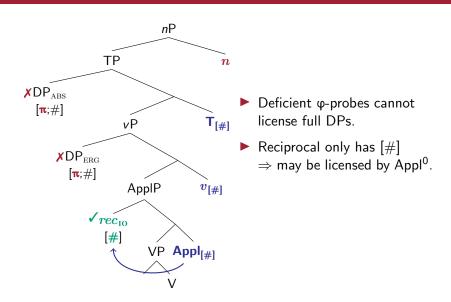
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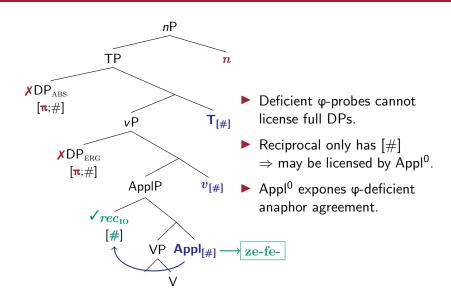
- ► Anaphor is specified only for [#].
- ▶ Deficient probe can license anaphor by checking [#] feature.











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 \Rightarrow does not require licensing by ϕ -agreement.

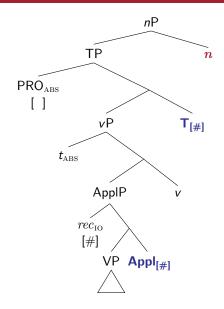
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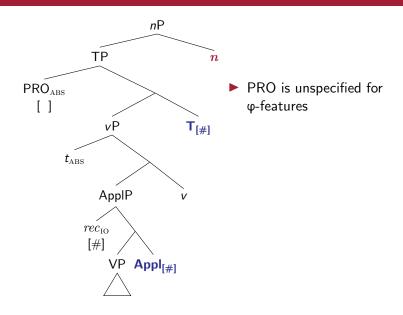
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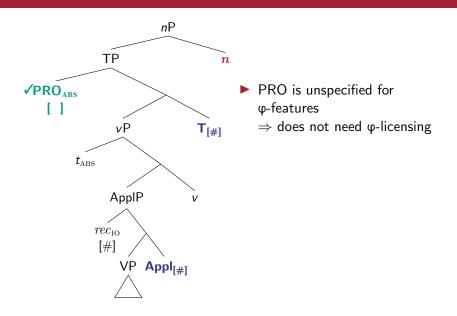
lit. ' I_{SG} like [PRO_{PL} dancing with each other].' (Ershova 2020:457)

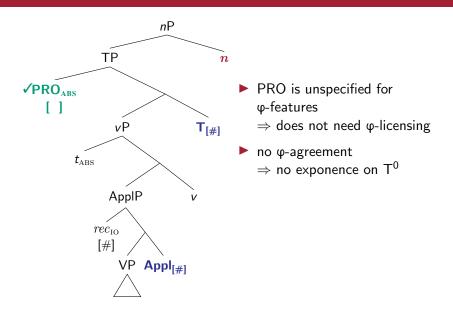
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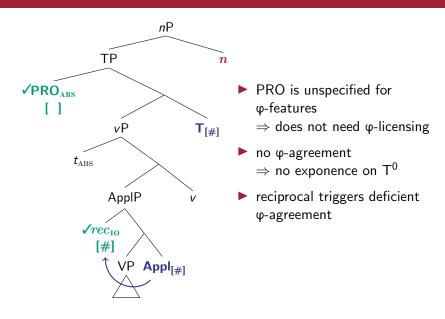
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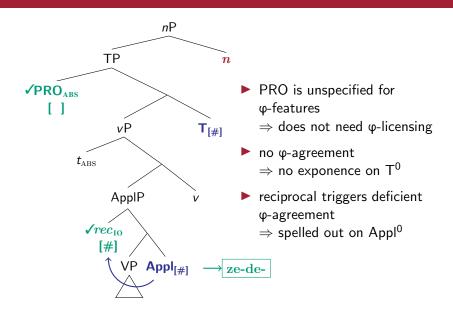












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'her anticipating of presents'

- ► Structurally deficient NPs are not specified for number or person ~ generic interpretation
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- ▶ NPs are pseudo-incorporated
 = licensed by adjacency (next section)

jə-
$$\hat{s}^w$$
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'her anticipating of presents'

Summary: Deficient ϕ -probes in nominalizations

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NOMINAL LICENSING

Roadmap

- ► Background on West Circassian
- ► Functional structure of nominalizations
- ightharpoonup ϕ -probe licensing by C^0
- ► Licensing arguments in nominalizations
- Conclusion

In nominalizations:

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Phrasal modifiers and complements in DP are pseudo-incorporated because DP phase is mapped to a single phonological word.

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A **phase** in syntactic constituent structure must be matched by a **prosodic word** in phonological representation.

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MATCH PHASE(-TO-WORD):

A **phase** in syntactic constituent structure must be matched by a **prosodic word** in phonological representation.

- ► Match Theory constraint (Selkirk 2011)
- ▶ Inspired by Compton and Pittman (2010); Barrie and Mathieu (2016)

► nominal head + modifiers

▶ nominal head + modifiers = one phonological word

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š'e -[ʔaṣ̂ə -š'e] -fabe -r
milk -[sweet -too] -warm -ABS
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'the warm milk that is too sweet' (Lander 2017:85)

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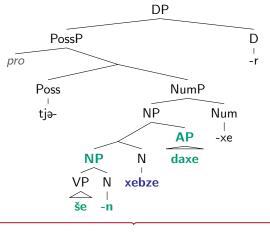
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^{&#}x27;shops of shoes and clothes' (Lander 2017:93)

DP phase is mapped to one phonological word

```
tjə- [še -n]- xebze -daxe -xe -r
1PL.POSS- lead -NML- rule -beautiful -PL -ABS
'our beautiful rules of conduct'
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Licensing by adjacency in nominalizations

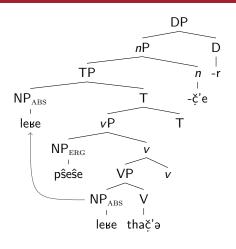
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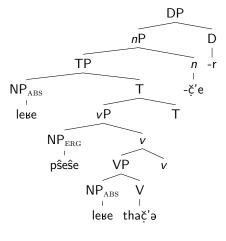
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- ⇒ NPs are pronounced in their theta-positions.



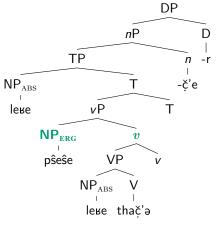
► NP_{ABS} is selected by V⁰ and moves to Spec,TP

pŝeŝe- **leke**- thač'ð-č'e-r girl- dish- wash-NML-ABS 'the girls' manner of dish-washing'



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dish-

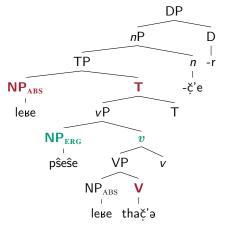
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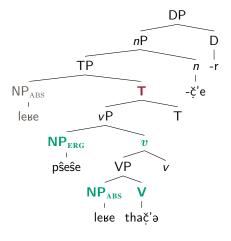
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girl-



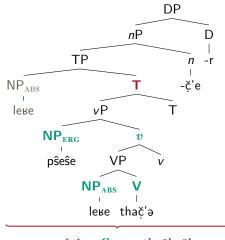
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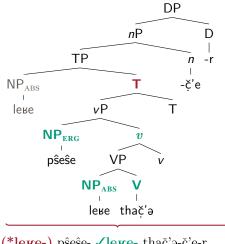
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Nominal licensing of arguments in nominalizations

In nominalizations:

- ightharpoonup verbal φ -probes are deficient \Rightarrow cannot license full DPs
- arguments may be licensed by the nominal syntax
 - bare NPs by adjacencyDP-internal syntax-to-prosody mapping
 - one full DP as possessor = by nominal φ-probe Poss⁰

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pŝaŝe-m jə- heč'e- je- že -n girl-OBL 3SG.POSS- guest- DAT- wait -NML 'the girl's waiting for guests'
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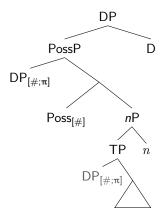
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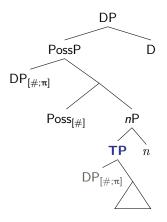
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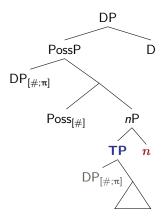
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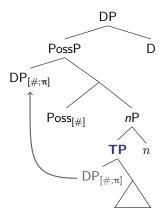
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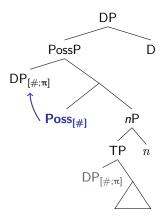
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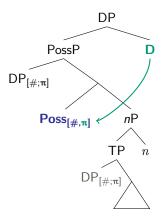
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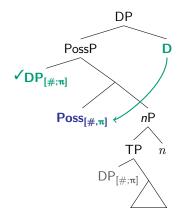
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pŝaŝe-m jə- heč'e- je- že -n girl-OBL 3SG.POSS- guest- DAT- wait -NML



- Nominalizations may contain one DP argument.
- φ-licensed by Poss⁰.
- ► Poss⁰ is deficient
 - like verbal φ-probes.
 - \Rightarrow licensed by D⁰.

φ-licensing

φ-licensing

▶ in DP: by Poss⁰

φ-licensing

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φ-licensing

- ▶ in DP: by Poss⁰
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- ▶ in CP: by T^0 , v^0 and Appl⁰

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φ-licensing

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In nominalizations: D^0 licenses ϕ -probe on $Poss^0$

φ-licensing

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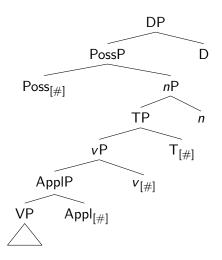
ightharpoonup in CP: by T⁰, v^0 and Appl⁰

 \rightarrow licensed by C^0

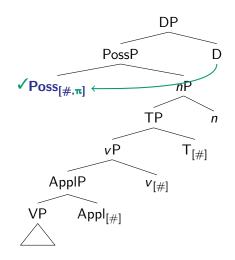
In nominalizations: D^0 licenses ϕ -probe on $Poss^0$

Question: Why can't D⁰ license φ -probes on T⁰, v^0 and Appl⁰?

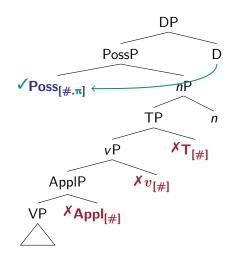
Why can't D^0 license verbal ϕ -probes?

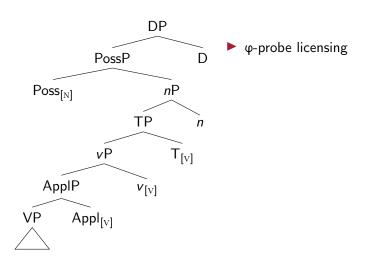


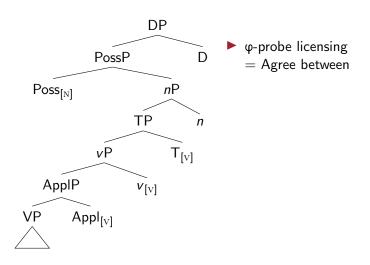
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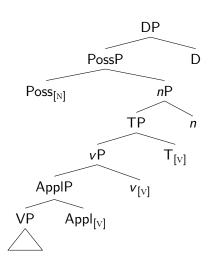


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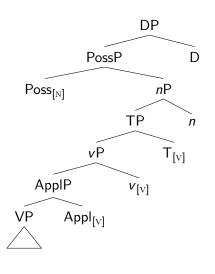




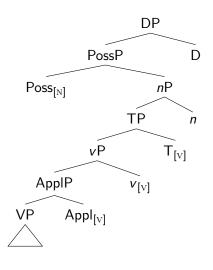




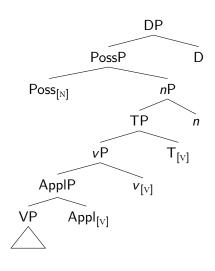
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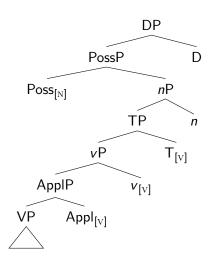
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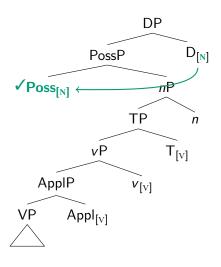
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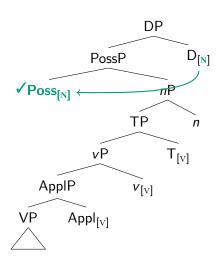


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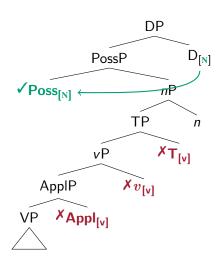


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Roadmap

- ► Background on West Circassian
- ► Functional structure of nominalizations
- ightharpoonup ϕ -probe licensing by C^0
- Licensing arguments in nominalizations
- Conclusion

West Circassian nominalizations display a diminished verbal syntax despite containing a full TP.

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Conclusion bit.ly/ErshovaGLOW46

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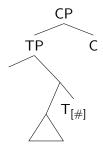
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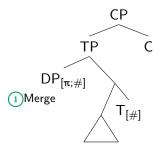
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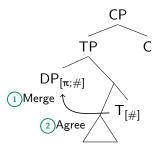
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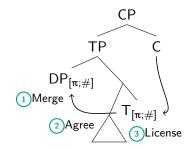
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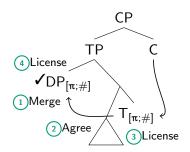
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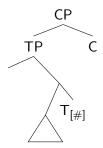
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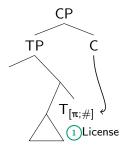
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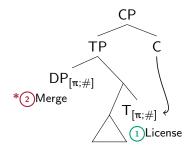
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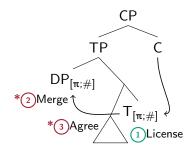


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Counter-cyclic nominal licensing

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Conclusion bit.ly/ErshovaGLOW46

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- ► Alternative account to mixed extended projections (Borsley and Kornfilt 2000; Kornfilt and Whitman 2011)

Conclusion bit.ly/ErshovaGLOW46

Thank you!

- West Circassian consultants: Svetlana K. Alishaeva, Saida Gisheva, Susana K. Khatkova, and Zarema Meretukova
- ► Karlos Arregi, Vera Gribanova, Boris Harizanov, David Pesetsky, and audiences of SMircle at Stanford, LingLunch at MIT, Syntax Reading Group at UMass, LSA 95, and the Speaker Series at UPenn.
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Reflexives

- reflexives are local subject oriented (Ershova 2019, to appear b) \Rightarrow bound by highest DP in vP
- reflexive agreement is possible in nominalizations

Reflexive agreement with absolutive

```
mə pŝaŝem Zə- q- jə- ʁe- ŝwe -ž'ə -ʁ this girl(ERG) REFL.ABS- DIR- 3SG.ERG- CAUS- dance -RE -PST

'This girl made herself dance.'

FINITE

jə- Zə- qə- ʁe- ŝwa -č'e
3SG.POSS- REFL.ABS- DIR- CAUS- dance -NML

'her manner of making herself dance'

NOMINALIZATION
```