

# Fusion and Fission

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# Georgian Verb Agreement

Subject

		Object				
		1sg	1pl	2sg	2pl	3
Subject	1sg			<i>g-vedav</i>	<i>g-xedav-t</i>	<i>v-xedav</i>
	1pl			<i>g-xedav-t</i>	<i>g-xedav-t</i>	<i>v-xedav-t</i>
	2sg	<i>m-xedav</i>	<i>gv-xedav</i>			<i>xedav</i>
	2pl	<i>m-xedav-t</i>	<i>gv-xedav-t</i>			<i>xedav-t</i>
	3sg	<i>m-xedav-s</i>	<i>gv-xedav-s</i>	<i>g-xedav-s</i>	<i>g-xedav-t</i>	<i>xedav-s</i>
	3pl	<i>m-xedav-en</i>	<i>gv-xedav-en</i>	<i>g-xedav-en</i>	<i>g-xedav-en</i>	<i>xedav-en</i>

# Fusion

## Assumptions in Halle & Marantz (1993)

- ▶ Prefixes and **-t** realize 1st/2nd person clitic heads  
all other affixes subject agreement
- ▶ Clitic heads fuse to a single head
- ▶ [+pl] is fissioned off in clitics

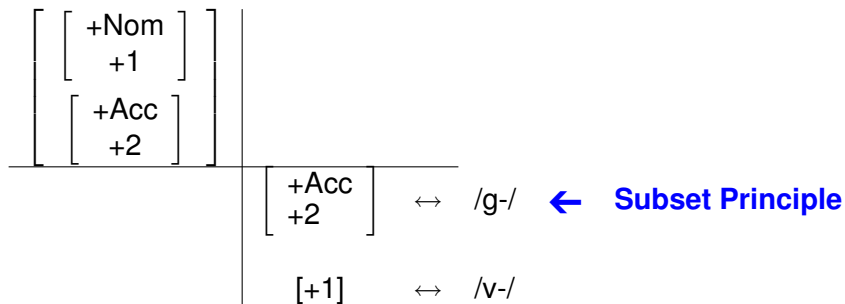
## Blocking in Georgian Prefixes (Clitics)

- (1) a. v-xatav                      b. xatav-s  
       S1-see                        see-S3s  
       ‘I see’                        ‘he sees’
- c. g-xatav-s                      g-xatav/\*g-v-xatav/\*v-g-xatav  
       O2-see-S3s                      O2-see  
       ‘he sees thee’                    ‘I see thee’

# Fusion in Halle & Marantz (1993)

$$\begin{bmatrix} +\text{Nom} \\ +1 \end{bmatrix} \quad \begin{bmatrix} +\text{Acc} \\ +2 \end{bmatrix} \rightarrow \begin{bmatrix} \begin{bmatrix} +\text{Nom} \\ +1 \end{bmatrix} \\ \begin{bmatrix} +\text{Acc} \\ +2 \end{bmatrix} \end{bmatrix}$$

## Fusion in Halle &amp; Marantz (1993)



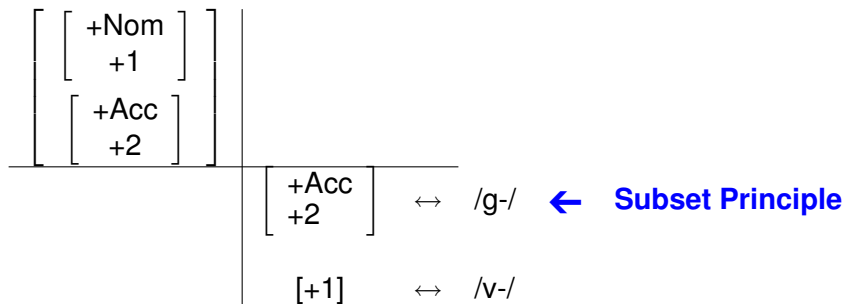
# Fission



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       O2-see-S3s                      O2-see  
       ‘he sees thee’                    ‘I see thee’

## Fusion in Halle &amp; Marantz (1993)



# Georgian Split Agreement (I)

a. v-xedav  
 1-see  
 'I see (him)'

b. v-xedav-t  
 1-see-PL  
 'we see (him)'

c. Ø-xedav  
 2-see  
 'you (sg.) see (him)'

d. Ø-xedav-t  
 2-see-PL  
 'you (pl.) see (him)'

## Georgian Split Agreement (II)

a. g-xedav  
O2-see  
'I see thee'

b. g-xedav-t  
O2-see-PL  
'I see you (pl.)'

c. m-xedav  
O1-see  
'you (sg.) see me'

d. gv-xedav/\*m-xedav-t/\*gv-xedav-t  
O1p-see  
'you (sg.) see us'

# Fission in Halle & Marantz (1993)

## Generalization

plural for a clitic (prefix) is expressed by suffix *-t*  
 except for a 1pl object

## Fission Rule

$$\begin{array}{c} \text{Cl} \\ | \\ [+pl] \end{array} + \text{Stem} \rightarrow [+pl] + \text{Cl} + \text{Stem} \text{ (linear order irrelevant)}$$

unless the [+pl] is part of a [+1], ACC argument

# Derivation in Halle & Marantz (1993)

	<b>2pl</b> ← <b>1sg</b>	<b>1pl</b> ← <b>2sg</b>
<b>Syntax</b>	[+2+pl] V	[+1+pl] V
<b>Fission</b>	[+2] V [+pl]	[+1+pl] V
<b>Vocabulary Insertion</b>	<i>g-</i> <i>-t</i>	<i>gv-</i>

# Georgian Split Agreement (I)

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 1-see  
 'I see (him)'

b. v-xedav-t  
 1-see-PL  
 'we see (him)'

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 2-see  
 'you (sg.) see (him)'

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a. g-xedav  
O2-see  
'I see thee'

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O2-see-PL  
'I see you (pl.)'

c. m-xedav  
O1-see  
'you (sg.) see me'

d. gv-xedav/\*m-xedav-t/\*gv-xedav-t  
O1p-see  
'you (sg.) see us'



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<b>Fission</b>	[+2] V [+pl]	[+1+pl] V
<b>Vocabulary Insertion</b>	<i>g-</i> <i>-t</i>	<i>gv-</i>