

LING 303/09F

Phonology I

Last class

- Finished [\pm lateral]
- New concept: dissimilation

Today's agenda

- New feature: [±strident]
- New concept: affricate

[±strident]

- The feature [+strident] characterises phonemes that are realised with high frequency frication, that is, high pitch white noise.
- [–strident] phonemes are realised at lower pitch.
- Because it is defined on the basis of air turbulence, [±strident] is important only for obstruents ([–sonorant]).
- Clements (2001:111): “The feature [+strident] is realized phonetically in the turbulence noise associated with obstruents.”

Coronal stridency

- The most common [+strident] phonemes are the fricatives /s, z, ʃ, ʒ/ and the affricates /tʰ, dʒ, tʃ, dʒ/, often collectively referred to as *sibilants*.

Affricates

- Tsuut'ina (tsuutina.ca)
 - t vs. ts
 - d vs. dz
 - t' vs. ts'
- Language?
 - c vs. tʃ
 - ɟ vs. dʒ

Plains Cree

a.	<i>atim</i> dog	'dog'	<i>at^simo-sis</i> dog-dim	'a/the little dog'
b.	<i>ni-tem</i> 1-horse	'my horse'	<i>ni-t^sem-isis</i> 1-horse-dim	'my little horse'
c.	<i>jot-in</i> windy-0	'it is windy'	<i>jot^s-in</i> windy-dim-0	'a little windy'
d.	<i>wat</i> hole	'a/the hole'	<i>wat^s-a</i> hole-dim-pl	'little holes'

Basque

/ipin-/ 'put' + /-tʰsen/ 'imperfect' [ipintʰsen]

/ikas-/ 'learn' + /-tʰsen/ [ikastʰen]

/irabaz-/ 'earn' + /-tʰsen/ [irabaztʰen]

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LaCharité (1993:164): “When the morphology juxtaposes two [+strident] specifications, the rightmost is deleted, leaving a homorganic stop”

Yucatec Maya

Disallowed root shapes:

*sVts

*tsVs

*ŋVs

*tʃVs

*sVʃ

*tsVʃ

*ŋVts

*tʃVts

*sVtʃ

*tsVtʃ

*ŋVtʃ

*tʃVʃ

etc.

Labial stridency, e.g. Ewe

éɸá 'he polished'

éɸá 'he was cold'

èβè 'Ewe language'

èvè 'two'

éɸlè 'he bought'

éflé 'he split off'

èβló 'mushroom'

évló 'he is evil'

Ewe speaker



- Dr. Ozouf Amedegnato
- Assistant Prof in French Dept.
- Teaches “Phonologie française” regularly
- FYI: LING students can count FREN 349 as a LING credit, if they like...

Dorsal stridency

- Other [+strident] fricatives are the uvulars [χ, ʁ].
- Other [–strident] fricatives are the palatals [ç, ʝ] and the velars [x, ɣ].
- Precisely because the feature [+strident] can be executed by several different articulators (lips, tongue blade, tongue body), it is considered “articulator-free.”

Maddieson 1984

- [+strident] /s/ is almost 15 times more common across languages than its [–strident] counterpart, /θ/;
- [+strident] /z/ is over four times more common crosslinguistically than its [–strident] counterpart, /ð/.
- [+strident] /f/ is over six times more common across languages than its [–strident] counterpart, /ϕ/; and
- [+strident] /v/ is more than twice as common crosslinguistically than its [–strident] counterpart, /β/.
- Other [+strident] obstruents, such as /ʃ, tʃ, ʒ, dʒ/, are also very common crosslinguistically.

Maddieson 1984

- Presumably, [+strident] phonemes are preferred over their [–strident] counterparts because of their inherent noisiness: they are easy to hear and relatively easy to produce.

German

	[p ^f]	[t ^s]	[k ^x]
German	<i>Pfuhl</i>	<i>Zunge</i>	<i>Kxū</i> (Swiss)
cf. English	<i>pool</i>	<i>tongue</i>	<i>cow</i>

Disordered speech (young girl)

ips	'sheep'	kus	'school'	bi	'bee'
go	'goat'	gæ	'kite'	us	'shoes'
ajnf	'fine'	neks	'snake'	ʌts	'shirt'
du	'two'	af	'fall'	di	'tea'
ɪŋgəs	'finger'	dains	'shines'	bɑ	'ball'
bə	'bus'	bu	'boat, book'	ɪŋks	'sink'
aks	'forks'	us	'shoe'	ajf	'five'
as	'saw'	bæ	'bath'	ops	'soap'

Kutep, a West African language

[bap ^w a]	‘they grind’	[baʒ ^v am]	‘they begged’
[bat ^w ap]	‘the picked up’	[aɕ ^f ápaŋ]	‘groundnuts’
[batɕ ^f áp]	‘they chose’	[bask ^w áp]	‘they are foolish’
[batɕ ^f ák]	‘they sleep’	[bas ^f a]	‘they kneel’
[nsáz ^v akk ^w à]	‘water is hot’	[baŋ ^w án]	‘they slip’
[bab ^w a]	‘they deceived’	[bam ^w à]	‘they measured’
[bamb ^w à]	‘they tasted’	[baŋg ^w à]	‘they drink’
[band ^w ap]	‘they wove’		

So far...

- [±lateral]

[−later]

r

t

k

[+later]

l

t^l

k^L_◦

Spanish, etc.

Oowekyala, etc

Archi, etc.

- [±strident]

[−strid]

θ

φ

t

[+strid]

s

f

t^s

English, etc.

Purepecha, etc.

Blackfoot, etc.