

Class 19

Syllable Structure and Faithfulness

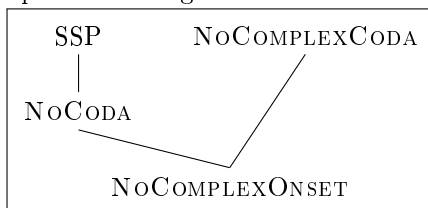
3/28/2022

1 Summary

1.1 Spanish

- Medial rising sonority clusters syllabified as complex onset, not coda + simple onset:
 - /VTRV/ → [V.TRV], *[VT.RV] ⇒ NoCODA ≫ NoCOMPLEXONSET
- Medial falling/level sonority clusters syllabified as coda + simple onset, not complex onset:
 - /VSTV/ → [VS.TV], *[V.STV] ⇒ SSP ≫ NoCODA
- Medial 3-consonant falling-then-rising clusters syllabified as simple coda + complex onset, not complex coda + simple onset:
 - /VSTRV/ → [VS.TRV], *[VST.RV] ⇒ NoCOMPLEXCODA ≫ NoCOMPLEXONSET

(1) Spanish ranking

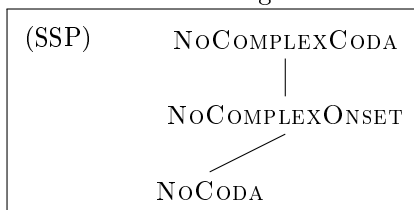


- Initial clusters must be rising sonority.

1.2 Ancient Greek

- **Medial rising sonority clusters syllabified as coda + simple onset, not complex onset:**
 - /VTRV/ → [VT.RV], *[V.TRV] ⇒ NoCOMPLEXONSET ≫ NoCODA
- Medial falling/level sonority clusters also syllabified as coda + simple onset, not complex onset:
 - /VSTV/ → [VS.TV], *[V.STV] ⇒ explained by NoCOMPLEXONSET ≫ NoCODA, so no evidence regarding SSP
- Medial 3-consonant falling-then-rising clusters syllabified as simple coda + complex onset, not complex coda + simple onset:
 - /VSTRV/ → [VS.TRV], *[VST.RV] ⇒ NoCOMPLEXCODA ≫ NoCOMPLEXONSET

(2) Ancient Greek ranking



- Initial clusters can be rising, level, or falling sonority.

2 Epenthesis and syllable structure

- Spanish exhibits epenthesis (vowel insertion):

	Simple words	Suffixed words
(3)	/verd/ → [ver.de] ‘green’	/verd-ura/ → [ver.du.ra] ‘greenness’
	/padr/ → [pa.dre] ‘father’	/padr-ino/ → [pa.dri.no] ‘godfather’
	/karn/ → [kar.ne] ‘meat’	/karn-oso/ → [kar.no.so] ‘meaty’
	/tripl/ → [tri.ple] ‘triple’	/tripl-ikar/ → [tri.pli.kar] ‘to triple’

	Simple words	Prefixed words
(4)	/skribir/ → [es.kri.bir] ‘write’	/pre-skribir/ → [pres.kri.bir] ‘prescribe’
	/sfera/ → [es.fe.ra] ‘sphere’	/emi-sfera/ → [e.mis.fe.ra] ‘hemisphere’

- ★ How does epenthesis relate to syllable structure in Spanish?

- Assume that there is a constraint that penalizes epenthesis:

(5) **DEP:** Assign one violation to each candidate for each vowel it inserts.

- * This is a “**FAITHFULNESS**” constraint — it penalizes making a change to the input.

→ In rule-based phonology, faithfulness was implicit, because the only way to change the input was to apply a rule.

- In OT, the concept of faithfulness is implemented with explicit constraints, like DEP.

- ★ Establish the ranking of DEP in Spanish with respect to the syllable structure constraints in (1)?

- ★ Given the data I’ve shown you, how does DEP rank with respect to the syllable structure constraints in **Ancient Greek** in (2)?

3 Deletion in Samoan

- Recall the deletion process from Samoan:

(6) Deletion in Samoan

Simple	Perfective	Gloss	Simple	Perfective	Gloss
tu:	tʉ:l-ia	'stand'	au	aul-ia	'flow on'
ʔalo	ʔalof-ia	'avoid'	ili	ilif-ia	'blow'
pole	poleŋ-ia	'be anxious'	fesili	fesiliŋ-ia	'question'
milo	milos-ia	'twist'	laʔa	laʔas-ia	'step'
lava:	lava:t-ia	'be able'	oʔo	oʔot-ia	'arrive'
siʔo	siʔom-ia	'be enclosed'	moʔo	moʔom-ia	'admire'
sopo	sopoʔ-ia	'go across'	fana	fanaʔ-ia	'shoot'

- Samoan has only (C)V syllables. Which syllable structure constraints are never violated in Samoan?

★ How can we understand the deletion process in the context of OT?