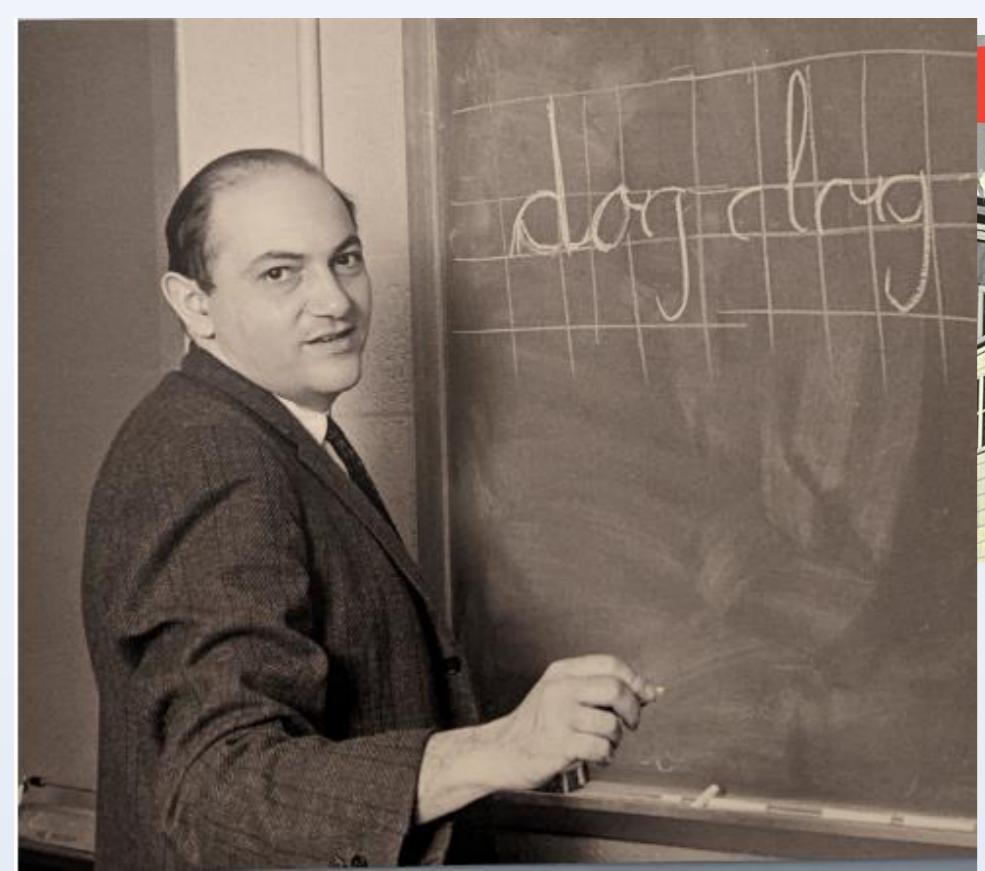


# WHAT FOLK METER CAN TELL US ABOUT SYLLABLE STRUCTURE AND SECONDARY STRESS IN PORTUGUESE



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- 1) Are {Obstruent  $\varphi$  Lateral} sequences really Branched Onsets?
- 2) Does Portuguese admit any kind of Word Secondary Stress?

## Branched Onsets in Portuguese

1. Mainstream understanding (e.g. Mateus & Andrade 2000):

Branched Onsets:

{Obstruent  $\varphi$  Coronal Liquid (Lateral  $\vee$  Rhotic)} (*flor* 'flower', *fruta* 'fruit')

- Sonority Principle (SP) ✓
- Dissimilarity Condition (DC) ✓

| necessary conditions for Branched Onsets  
-phonetic evidence: no schwa-epenthesis between Obstruent and Liquid

2. But (see Veloso 2006):

2.1. Historical data:

- Lat. {Obstruent  $\varphi$  Rhotic} > Port. {Obstruent  $\varphi$  Rhotic} (Lat. *fructum* > Port. *fruto*) ✓
- Lat. {Obstruent  $\varphi$  Lateral} > Port. XXX (Lat. *clavum* > Port. *cravo*; Lat. *planum* > Port. [tʃ]āo) ✗

2.2. Production/Acquisition data:

- Port. {Obstruent  $\varphi$  Lateral}: **schwa epenthesis** (*flor* 'flower' /.*flor.*/ → [.fi.'lor.]) ✗
- Port. {Obstruent  $\varphi$  Rhotic}: **no schwa epenthesis** (*cru* 'raw' /.*cru.*/ → [.kru.]) ✓

3. What about C<sub>1</sub>C<sub>2</sub> sequences different from {Obstruent  $\varphi$  Coronal Liquid}?

"Empty Nucleus Hypothesis" (Mateus & Andrade 2000):

C<sub>1</sub>C<sub>2</sub> sequences not respecting SP and/or DC ("marked" C<sub>1</sub>C<sub>2</sub> sequences, {Obstruent  $\varphi$  Obstruent}, {Obstruent  $\varphi$  Nasal}, {Nasal  $\varphi$  Nasal}) are phonologically interpreted as **heterosyllabic** /C<sub>1</sub>\_Onset  $\emptyset$  Nucleus. C<sub>2</sub>\_Onset/ - Main phonetic argument: **EPENTHESIS** (in Nucleus of C<sub>1</sub>-syllable)

4. **QUESTION:** Are {Obstruent  $\varphi$  Lateral} really allowed in Portuguese phonology as (tautosyllabic) Branched Onsets?

5. **OBSERVATION:** How are these "clusters" treated in Portuguese folk verse?

Corpus: *Cancioneiro Popular do Baixo Alentejo* (Delgado (Ed.) 1980), a collection of more than 2.000 folk compositions of Portuguese "popular verse" ("redondilha maior": 1 verse=7 syllables)

Focus: all word forms including {Obstruent  $\varphi$  Lateral} sequences

Data: 100% of cases: syllable-counting for each verse fit into the redondilha maior template, iff Obstruent  $\varphi$  Lateral are prosodized as heterosyllabic {Obstruent  $\varphi$  Nucleus. Lateral  $\varphi$  Nucleus}:

Não olhes p'ra mim, não olhes,  
Qu'eu não sou o teu amor.  
Eu não sou como a figureira  
Que dá fruto sem fíllo.  
(Delgado, org. 1980:236; nº 2114)

Primavera se ausentou,  
Deixou tudo fílloido;  
Também meu bem se ausentou,  
Não mais me veio ao «sentido».  
(Delgado, org. 1980:259; nº 2345)

(Veloso 2006: 142)

6. **INTERPRETATION:** {Obstruent  $\varphi$  Lateral} sequences are represented at Portuguese speakers' phonological knowledge as HETEROsyllabic {Obstruent  $\varphi$  Nucleus. Lateral  $\varphi$  Nucleus}.

## TWO ILLUSTRATIONS OF HOW DATA FROM METER (FOLK VERSE, FOLK MUSIC) CAN BE USED TO SUPPORT PHONOLOGICAL ANALYSIS.

### ASSUMPTION THAT METER, MUSIC AND LANGUAGE MIGHT SHARE CLOSE MECHANISMS AND PRINCIPLES

- Halle 1987; 1989; 1997; Fabb & Halle 2008

- Sundberg & Lindblom 1976; Fonagy 1980; Lerdahl & Jackendoff 1981a; 1981b; 1983; Donegan & Stampe 1983; Hayes 1985; 1995; Lehiste 1985; Palmer & Krumhansl 1990; Auer 1988; Aroui 1997; Temperley 2001

#### References:

- ANDRADE E, B LAKS. 1992. Na crista da onda: o acento de palavra em português. *ENAPL* 1992: 15-26; ANDRADE E. 1994. O acento de palavras em português. *Temas de Fonologia*. Colibri, 107-130; AROUI JL. 1997. Prolégomènes à une grammaire des strophes. *Actes de la Première rencontre de jeunes linguistes*, 1-10; AUER P. 1988. A note on prosody in natural phonology. *Naturalists at Krems*: U Salamanca, 11-22 ; COLLISCHONN G. 1993. Um estudo do acento secundário em português. UFRGS; --- Acento secundário em português brasileiro. *Letras de Hoje* 29: 45-53; DELGADO MJ. 1980<sup>2</sup>. Subsídio para o *Cancioneiro Popular do Baixo Alentejo*. INIC; DONEGAN PJ, D STAMPE. 1983. Rhythm and the holistic organization of linguistic structure. *Papers from the Parasession on the Interplay of Phonology, Morphology, and Syntax*, 337-353; FABB N, M HALLE. 2008. *Meter in Poetry*. CUP; FONAGY I. 1980. Preverbal communication and linguistic evolution. *The Relationship of Verbal and Nonverbal Communication*. Mouton De Gruyter, 167-184; GALLOP R. 1950. *Cantares do Povo Português*. IAC; HALLE M. 1987. A Biblical Pattern Poem. *The Linguistics of Writing*. MUP, 67-75; --- 1989. Syllable-counting meters and pattern poetry in the Old Testament. *Studia Linguistica et Orientalia*. Otto Harrassowitz, 110-120; --- 1997. Metrical Verse in the Psalms. *India and beyond*. Kegan Paul; HAYES B. 1985. Iambic and Trochaic Rhythm in Stress Rules. *Proceedings of the Eleventh Annual Meeting of the Berkeley Linguistics Society*, 429-446; --- 1995. *Metrical Stress Theory. Principles and Case Studies*. UCP; LEHISTE I. 1985. Rhythm of Poetry, Rhythm of Prose. *Phonetic Linguistics*. Academic Press, 145-155; LERDAHL F, R JACKENDOFF. 1981a. Generative Music Theory and Its Relation to Psychology. *Journal of Music Theory*. 25(1): 45-90; --- 1981b. On the Theory of Grouping and Meter. *The Musical Quarterly*. 67(4): 479-506; --- 1983. An Overview of Hierarchical Structure in Music. *Music Perception* 1(2): 229-252; MATEUS MH, E ANDRADE. 1990. *The Phonology of Portuguese*. OUP; PALMER C, CL KRUMHANSL. 1990. Mental representations for musical meter. *Journal of Experimental Psychology*. 16: 728-741; SUNDBERG J, B LINDBLOM. 1976. Generative theories in language and music description. *Cognition*. 4: 99-122; TEMPERLEY D. 2001. *The cognition of basic musical structures*. The MIT Press; VELOSO J. 2006. Reavaliando o Estatuto Silábico das Sequências Obstruinte+Lateral em Português Europeu. *DELTA* 22:127-158; --- 2018. Acento rítmico, metrificação e verso musical. *Para Óscar Lopes*. Afrontamento, 167-193; --- 2021. Prosodic and Musical Prominence in Portuguese Folk Verse. *Language, Music and Gesture: Informational Crossroads*. Springer, 159-165.

Research funded by:

