CONSTRAINTS, CONTRAST, AND CONSONANTS: THE CASE OF CONSONANT HARMONY BLOCKING IN BERBER LANGUAGES

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Consonant harmony (CH) is a controversial phenomenon in phonology, primarily due to the divide over how to approach such a system. Some scholars (e.g. Hansson, 2001a; Rose & Walker, 2004) take a *restrictive* approach to CH, developing frameworks that only make use of the most common features of CH (i.e. few features harmonize, fixed directionality, no blocking, and so on). Any CH-like behaviour that deviates from these commonalities therefore cannot be CH in a restrictive approach.

In contrast to this, I will discuss a set of Berber languages that clearly have a CH system in their phonologies, but break a major rule from a restrictive approach.

Berber languages such as Tamajaq Tuareg (TT; Alojaly, 1980), Imdlawn Tashlhiyt (IT; Elmedlaoui, 1995), and Ayt Ndhir Tamazight (ANT; Penchoen, 1973) will generally harmonize the causative morpheme /s-/ for place and voicing:

(1)	TT	/s-əntəz/	→[z-əntəz]	/s-măſăn/	→[ʃ-əmːəʃən]
	IT	/s-bruz:a/	→[z-bruz:a]	/s-mːʒdawl/	→ [ʒ-m:ʒdawl]
	ANT	/sː-ətʃː/	→ [ʃː-ətʃː]	/sː-ʒəj/	→ [ʒː-uʒəj]

However, voicing harmony in IT and both harmonies in ANT will be *blocked* when certain voiceless segments intervene:

(2)	IT	/s-ħuz/	→ [s- <u>ħ</u> uz]	/s-nːuqːʒ/	→ [ʃ-nːuq̞ːʒ]
	ANT	/sː-açəz/	→ [sː-içəz]	/sː-çʒəm/	→ [sː-ə <u>c</u> ʒəm]

If this blocking process can be unified as part of CH, the results will pose a serious problem for the restrictive approach to CH.

I show that, through a constraint-based approach adapted from Jurgec's (2010) assimilation framework, the harmonizing process and the process that prevents it are one in the same, contrary to what Hansson (2010b) suggests. A reordering of constraints will produce all of the possible results from any of the given languages in (1,2).

I will conclude by briefly discussing the subsequent issues regarding the empirical repercussions of this framework, as well as possible alternative, contrast-centred explanations for this blocking that depart from the harmony-based approaches outlined both by both Hansson and me.

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