

the time when the OCP is applied. The [labial] specification of the prefix is only adjacent to the [labial] of the stem-final segment above if the place features of the intervening consonants are on separate tiers. Furthermore, the nasal prefix is not specified for [coronal] in the output because this specification would also violate the OCP.

In Autosegmental phonology, features are active in dissimilation if specified and inactive if not. However, features may be inactive in some contexts and active in others. For example, in the Berber case, coronals are inactive in the sense that they can co-occur with another coronal in the stem: [n-kaddab]. But coronals are active in a dissimilatory effect that applies to adjacent segments: when the stem begins with another coronal sonorant, the nasal prefix either fails to delabialize, e.g., /m + laqqaf/ → [m-laqqaf] ‘to catch in the air’, or the prefix delabializes and is separated by the sequence [ya], as in /m + lkm/ → [nya-lkam] ‘to reach’. Sequences of coronal sonorants are avoided in adjacent segments, showing that [coronal] must be specified. However, this outcome is inconsistent with the assumptions made for [n-kaddab].

Phonological activity is also often correlated with MARKEDNESS. Building on this observation, Alderete 1997 and Itô & Mester forthcoming propose that dissimilation is a cumulative effect of markedness constraints in OPTIMALITY THEORY (OT). In OT, phonological markedness is encoded directly as a set of ranked constraints that prefer unmarked structure over marked structure. In Cumulative Markedness theory, dissimilation is the effect of a self-conjoined markedness constraint, e.g., *Lab → *Lab-2. By ranking the constraint banning two [labial] specifications over the same constraint for [coronal], the analysis provides both the motivation for labial dissimilation and the observed coronal output:

Dissimilation as the Cumulative Effect of Markedness Constraints

Input: / m + kaddab /	*Lab-2	*Cor-2
→ n-kaddab		*
m-kaddab	* !	

Furthermore, the avoidance of two adjacent coronals, e.g., [m-laqqaf], *[n-laqqaf], follows from another doubled markedness constraint, *Cor\+Son-2, defined for adjacent segments. The activity of coronals in this context therefore follows from ranking this constraint over *Lab-2, a result that does not depend on the staging of feature specification.

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