How speakers select synthetic and analytic forms of English comparatives: an experimental study Naomi Enzinna, Cornell University, LSA 2017

Numerous studies have proposed generalizations as to whether an English adjective will form a comparative synthetically (i.e., *smarter*) or analytically (i.e., *more smart*). Factors claimed to be relevant include an adjective's prosodic shape (Jespersen, 1949; Cygan, 1975; Bauer, 1994; Leech & Culpeper, 1997; Lindquist, 2000; Hilpert, 2008) and token frequency (Graziano-King, 1999; Adams, 2014). However, there are numerous instances in corpora of comparatives predicted to be unacceptable by these generalizations, thus defying their reliability.

In this paper, I address the role of token frequency and recency on a speaker's choice between the synthetic and analytic English comparative, aiming to shed light on the occurrence of comparative forms assumed to be unacceptable in the literature.

To examine this issue, I conducted two experimental studies: one in which participants choose between the synthetic and analytic comparative for each adjective, and one in which the choice is preceded by a prime. In the first study—the unprimed study—participants are asked to choose between *famouser* and *more famous*; in the second study—the primed study—participants are first shown a prime and then asked to choose between *famouser* and *more famouser* and *more famouser* and *more famouser* and *more famouser*. There are three prime types, as detailed in Table 1.

Table 1. Prime types and			

Prime type	What it is	Example
Base prime	The base adjective shared by the target pair	famous
Same prime	The synthetic comparative of the target pair	famouser
Different prime	A synthetic comparative different than target	kinder

The materials include 60 target adjectives of 9 prosodic shapes. One half of the target adjectives are high frequency (~10,000-20,000), and the other half are low frequency (~100-1,000), based on the NYT and COCA corpora. There are 120 fillers per study, and all trials are randomized. There were altogether 200 participants: 50 completed the unprimed and 150 completed the primed experiment (which had 3 different versions).

The results of the experiments are as follows. In the unprimed experiment, a clear three-way distinction was found between '-*er*'-*preference* adjectives, *no-preference* adjectives, and '*more*'-*preference* adjectives (Table 2). The effect of frequency is only statistically significant for two of three '-er'-preference prosodic shapes: monosyllabic adjectives (p < 0.001) and disyllabic adjectives ending in -*ly* (p < 0.001).

Table 2. Preference classes determined by unprimed experiment

Preference class	What it is	Prosodic shapes
'-er' preference	Adjectives prefer the synthetic form	monosyllabic; disyllabic ending in -y, -ly
no preference	Adjectives don't have strong preference	disyllabic ending in -ow and -/
'more' preference	Adjectives prefer the analytic form	disyllabic ending in -er, -nt, sibilant, final
		stress

In the primed experiment, when primed with a same prime (Table 1), the selection of the synthetic form increased in the 'more'-preference class (p < 0.001) but decreased in the '-er'-preference and no-preference classes (p < 0.001). This somewhat surprising effect is found only in high frequency adjectives (p = 0.006); low frequency adjectives are not affected. Similar results are found for participants primed with a different prime (Table 1) when the target adjective is high frequency. Priming with a base prime (Table 1) had no effect.

To conclude, the results of the primed study differ from the results of the unprimed study. For high-frequency adjectives in the 'more'-preference class (established in the unprimed experiment), exposure to a synthetic prime increased selection of the synthetic comparative. However, for the '-er'-preference and no-preference classes, exposure to the synthetic prime *reduced* selection of the synthetic comparative, thus creating an inhibition effect. This is paralleled by reaction times, which are longer for the '-er'-preference and no-preference classes than for the 'more'-preference class when the prime is a synthetic form. If this mechanism functions similarly in natural speech, recency may well have a role in the variation found in comparative forms.