

## Is there vowel reduction in English?

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### (1) aims

- a. to reduce redundancy
- b. to rid phonology of nonphonological “processes”
- c. to understand what stress is

### (2) textbook views

- a. stress is scalar: primary, secondary, tertiary, etc (“five degrees must be distinguished” Wells 1990: 683), reduced vowels only occur in the lowest degree; SPE stress is cyclically assigned and potentially has infinite degrees
- b. word stress is relational: a given syllable is stressed if the adjacent syllable is less stressed, and it is not stressed if the adjacent syllable is more stressed
- c. stress and reduced vowels
  - i. reduced vowels occur in unstressed syllables *or*
  - ii. vowels are reduced in unstressed syllables

### (3) symptoms of stress

- a. syllable may receive tonic (undebated, some claim this is the *only* symptom of stress, eg Ladefoged 2001, Bolinger 1986): **T-stress**
- b. syllable initiates a foot (how to detect this?): **Fo-stress**
- c. syllable contains a full vowel (but what is a full vowel?): **Fu-stress**

### (4) scalar stress?

- a. unlike(?) in Hungarian, in English a one-root word may contain multiple stresses
- b. in the citation form of a multiply stressed word, which is a tone unit(!), the tonic falls on the last stress, but this has nothing to do with the word, this does *not* mean that this syllable is inherently stronger (ie “primary” stressed): *Piccadilly*
- c. in a phrase with a multiply stressed word followed by another word the tonic may fall on the first stress, again this is independent of the word itself: *Piccadilly Circus* (nb in the default case, tonic would fall on *Cír*-!)
- d. conclusions
  - i. primary = secondary stress  
it’s not just that the difference is predictable, there *is* no difference
  - ii. a lexical item may contain maximally two T-stresses  
the tonic never falls on *-bi-* in *autobiographical* or on *-B-* in *FBI*

### (5) being foot initial (Fo-stress)

Harris (in press) shows that the beginning of a foot is much less prone to lenition than other places

- a. no [r] loss: *foray fɔre*, *ferrite fɛraɪt* vs *America əmɛrɪkə*, *very véɹi*
- b. no [h] loss: *Abraham éjbrəham*, *Stockholm sɔkəhəwm*  
vs *Graham grɛjəm*, *Denholm dénəm* (*Denholme*, *WYks dénholm*)

- (6) a symptom of a full vowel (Fu-stress)  
 no flapping/voicing: *atoll* **átal** vs *atom* **árəm**, *modem* **módəm** vs *modal* **móral**  
 ≈ aspiration: *atoll* **áthəl** vs *atom* **\*áthəm** (Bolinger 1986)
- (7) Fo-stress = Fu-stress (hereafter F-stress), further symptoms
- no syncope: *separate* **sépəɹət** vs **sépəɹɛjt**
  - no high vowel gliding: *affiliate* **əfiljət** vs **əfilrɛjt**, **\*əfiljejt**;  
*graduate* **gráɟwət** vs **gráɟəwɛjt**, **\*gráɟwɛjt**  
 nb high vowel gliding = syncope!
  - no yod-dropping: *value* **váljəw** vs *absolute* **ábsələwt**  
*menu* **ménju** vs *avenue* **ávənu**
- (8) all of the above restrictions also hold in the case of T-stress!  
 both Bolinger and Ladefoged claim that syllables with a full vowel that are not potential hosts for the tonic are unstressed, it is only their length that make us feel they are stressed (Ladefoged 2001: 95); it is suspicious though that the same phenomena occur together with these F-stressed vowels as with T-stressed ones
- (9) full vs reduced vowels
- Bolinger's (1986) system: no overlap
    - full vowels: **i i e ɛ æ ʌ a ɔ o ʊ u + ai ə ə ɔi**
    - reduced vowels: **i ə ə** (Kenyon & Knott (1953) have **i ə ʊ!**)
  - Wells' (1990) system: some overlap
    - full vowels: **i i eɪ e æ ʌ a: ɒ əʊ ʊ u: + ai aʊ ɔɪ + iə eə ʊə**
    - reduced vowels: **i i ə (əʊ) ʊ u u:**
  - the CUBE (2013) system: full overlap:  $RV \subset FV$ 
    - full vowels: **ɪj i eɪ ɛ æ ə a: ɔ əw ə ɒw + əj aʊ oɪ + i: ɛ: ɔ:**
    - reduced vowels: **ɪj i ə (əw) ɒw**
- (10) "vowel reduction"
- is never caused by word-level affixation
  - alternations only in *some* function words (*of* **ɔv**, **əv**, but *off* **ɔf**, **\*əf**)
  - the relationship of *barometer* **bərómətə** ~ *barometric* **bárəmétrik** is *not* phonological, only semantic (like that of *sing* **sɪŋ** ~ *sang* **sáŋ** ~ *sung* **sóŋ** ~ *song* **sóŋ**): only the consonants are identical in the allomorphs

#### REFERENCES

- Bolinger, Dwight. 1986. *Intonation and its parts: Melody in spoken English*. London: Edward Arnold.
- CUBE. 2013. <http://seas3.elte.hu/cube>
- Harris, John. in press. Wide-domain *r*-effects in English. To appear in *Journal of Linguistics*.
- Kenyon, John S. and Thomas A. Knott. 1953. *A pronouncing dictionary of American English*. Springfield, Mass.: Merriam-Webster.
- Ladefoged, Peter. 2001. *A course in phonetics* (4th ed). Boston, Mass.: Heinle & Heinle.
- Wells, John. 1990. *Longman pronunciation dictionary*. Harlow: Longman.