

English stress is stable, lexical, and binary

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three claims about English word stress

1. stress is **stable**, ie
 - ▶ stressed Vs do not become unstressed
 - ▶ unstressed Vs do not become stressed
2. stress is **lexical**, ie phonology does not manipulate which Vs are stressed and which are unstressed
3. stress is **binary**, ie a V is either stressed or unstressed, tertium non datur (so we're not talking about binary feet here!)

how do we know if a V is stressed?

stress is relational

- ▶ first V is more prominent in *látest*, *látex*
- ▶ second V is more prominent in *lagóon*, *lampóon*
- ▶ *´* is the **tonic** if these words are final in the neutral reading of an utterance

yet, in some sense,

- ▶ the other Vs of *látèx* and *làmpóon* are also stressed
- ▶ while the other Vs of *látèst* and *lagóon* are not stressed
- ▶ why do we think so?

stress shift

lampoon vs lagoon

- ▶ in *lampoon* either V may be more prominent than the other: *lám্পóon vs lám্পoon póetry*
- ▶ in *lagoon* the first V may not be more prominent than the second: *lagóon, lagóon dólphin, *lágoon dólphin*
- ▶ so **both** Vs in *lám্পóon* are stressed, which one is more prominent is predictable from the context: *lám্পóon, lagóon*

látèst vs látèx

- ▶ the second V may not be more prominent than the first in any context in either word
- ▶ so what's the difference?

vowel quality

according to a wide-spread assumption

- ▶ vowels reduce in unstressed position to ə ɪ (ɚ)
- ▶ so léjtɛks vs léjtəst; lámpɛwn vs lægɛwn
(also *amulet* ámjɚlɪt, ámjələt)

however, this only works if. . .

- ▶ we use different symbols for “normal” and “reduced” vowels: eg
ʌ vs ə; ɪ vs ɪ̯ (ʊ vs ø), cf Bolinger 1986 and many others
- ▶ else vowel quality is not indicative of stress: cf
Kentucky kɛntəkɪj vs *Kennedy* kɛnədɪj;
today tədɛj vs *Monday* mɔndɛj;
abut əbət vs *butter* bətə;
begin bɪgɪn vs *Biggin* bɪgɪn
- ▶ so we're using the appropriate symbol only because we know which vowels are stressed in the first place

vowel reduction is history

the GP view (à la Kaye 1995)

- ▶ full vowel~reduced vowel alternations are lexical (ie not phonological): regular (analytic) affixation (eg of *-ing*, *-ed*, *-ness*, *un-*, etc) does not lead to vowel reduction, since it does not induce any change in stress
- ▶ nonanalytic (level-1) affixation may change stress; the relationship of *academy* əkádəmi:j–*academic* ákədémik–*academician* əkádəmi:fən/ákədəmi:fən is **not** phonological; note that practically only the consonants are constant, like in *sing* and *sang*, or *full* and *fill*
- ▶ **vowel reduction is** a historical relic (like ablaut, umlaut, velar softening, or spirantization), **not a phonological process**, but — like in the case of velar softening or vowel shift — spelling disguises this (cf *academic/academician*, *hide/hid*, etc)

stress is stable

if we exclude historical events from phonology

- ▶ stress will be stable, ie
 - ▶ Vs lexically stressed do not become unstressed: *work* wə:k, *wək; exc some one-syllable function words, eg *were* wə:, wə, this is lexical allomorphy
 - ▶ Vs lexically unstressed do not become stressed: the nonfirst Vs of wə:kəbəl are never stressed; exc in contrastive topic: *is the idea working?* — *no, it's workáble* wə:kəbəl
- ▶ stresses are not all equally prominent, but no stress is lost
- ▶ “stress shift” is simply prominence shift: *sárdíne* vs *sárdíne spréad*; *léft hánd* vs *léft hánd dríve* (three adjacent stresses come out as “231”)
- ▶ ⇒ word stress in English is stable and lexical

so why is the last V of *latex* stressed?

some segmental consequences of stress

- ▶ aspiration before stress vs t-lenition: *lát*[h]èx vs *lá*[ʔ]/[r]/[s]est
- ▶ no syncope (including high vowel gliding) before stress:
Lebanon lébʌnən vs léb*ʌnən; *linear* lín/jə vs *delineate* dilín*/jèjt (nb this is not a stress-clash-avoidance strategy: cf *methodological* méθəd*ʌlɔdʒɪkəl, *characterize* kárəkt*ʌrəɪz)
- ▶ no extraneous plosive in nasal+fricative clusters before stress:
censure séntʃə, *prince* prínʃs vs *ensure* in*tʃó:, *princess* prín*tsés, *incest* ín*tsèst
- ▶ unstressed *ɹw* only before stress: *amulet* ámjɹwɛt, ámjɹɛt, ámjɹɛt, but *ámjɹwɛt; *stimulus* stímjɹ*wləs vs *stimulate* stímjɹ(w)lèjt

data from Wells 2008

vowels and stress

there are two types of vowels

- ▶ the vowels that occur in unstressed position are ə ɪ ʊ əw ɪj ʊw
- ▶ although these vowels are not “derived” from other vowels by phonological rules, we could call them reduced
- ▶ all other vowels do not occur in unstressed position (a ɛ ɔ ɑj aw ɛj oʊ and all long vowels)
- ▶ thus the second V of *latex* is stressed
- ▶ for syllables with possibly reduced vowels we must consider segmental effects or stress shift (eg *Princess Anne* vs *sincere wish*; *unchained* vs *unchained melody*)

lampoon vs latex

if both have both Vs stressed, what's the difference?

short answer

I wish I knew

longer answer

the contrast of *black bird* 'avis nigra' and *blackbird* 'Turdus merula' neutralizes in

- ▶ *black()bird's nest* (difference in structure)
- ▶ *is this a black()board? no, it's a black()bird!* (emphasis)

also note

lǎmpóon pǒetry vs **fáke látěx* (no stress shift in the other direction)

thanks to

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