Onset Clusters in English: Simplified by Rule or Simple due to Constraint?

Frans Plank, vii 06

Modern English doesn't allow onset clusters such as /gn, gm, kn, km, ps/, even though they do not offend against sonority sequencing. The question this raises is: Is there a CONSTRAINT prohibiting such onset clusters (underlyingly or superficially) or a RULE actively simplifying them, should any turn up? Given that such clusters were

permissible in earlier English, and are permissible in other languages from which

English is a lexical borrower, it is conceivable that such clusters indeed do turn up.

The answer to this question bears on the question what the lexical representations are or words such as *gnat*, *gmo* (=genetically modified organism), *knot*, *Khmer*, *psalm*. Are

they lexically /gnæt, gməu, knɔt, kmeər, psa(l)m/, and are these clusters simplified by

rule to yield pronunciation forms [næt, məʊ, nɔt, (k)meər, sam]? Or are the

pronunciation forms themselves also the lexical forms, with no rules altering their

onsets? (If the constraint against these clusters is assumed to only apply superficially, then lexical forms could have them, but wouldn't be pronounced. I wonder what the

difference is then to the rule-based account.)

The following considerations would seem to me to argue for a constraint- and against a

rule-based account

Words like the following could be syllabified in line with the universal principle of

onset maximisation, so far as is permitted by sonority sequencing (left column) or

without onsets maximised (right column):

re.co.gnize re.cog.nize

sta.gnant stag.nant

ma.gma mag.ma

fi.gment fig.ment

a.cknow.ledge ack.now.ledge

a.cne ac.ne

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a.cme ac.me

har.psi.chord harp.si.chord
ter.psi.cho.re terp.si.cho.re
e(l).li.psis e(l).lip.sis
so.li.psi.sm so.lip.si.sm
au.to.psy au.top.sy
pe.psi pep.si

ti.psy tip.sy gy.psy gyp.sy

In actual fact, they are invariably syllabified like in the right column, offending against onset maximisation. This offence is judicious: onsets are not maximised iff the resulting cluster would be language-particularly illicit.

Now, if such words **were** to be syllabified as in the left column, in line with onset maximisation, one could expect them to be pronounced with these onset clusters (illicit word-initially):

[re.kə.gnaiz, mæ.gmə, æ.kni, tɜ.psi.kə.ri, pe.psi] etc.

But they aren't. (One might assume that this is how such words are syllabified initially, only to be obligatorily resyllabified, so as to bring syllable onsets in line with a language-particular constraint on permissible clusters.)

One could also expect such words to be pronounced with the clusters simplified, assuming there is a RULE of cluster simplification rather than only a CONSTRAINT:

[re.kə.naiz, mæ.mə, æ.ni, tə.si.kə.ri, pe.si] etc.

Again, this is not how such words are ever pronounced.

I conclude there is no RULE of onset cluster simplification active in Modern English. It follows that the lexical representations of words such as *gnat*, *gmo*, *knot*, *Khmer*, *psalm*

are /næt, məu, nət, (k)meər, sa(l)m/, differing from the lexical representations and/or pronunciations of such words in earlier English or in the languages from which English borrowed them. The right pronunciations of words such as *recognize*, *magma*, *acne*, *Terpsichore*, *pepsi* are due to a judicious violation of onset maximisation (effected by resyllabification, if one assumes initial syllabifications as in the left column above), motivated by the (language-particular) constraint against onset clusters, holding word-initially as well as word-internally.