Unit 11 Syllables & Rhythm (2):

morphophonology and stress

Slides for the session of *Phonetics with Listening Practice (British)* held on 17 June 2025

> Robert Spence { English Department | LangSciTech } Saarland University

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Syllables & Rhythm (2):

Outline

A phonological rank scale for English

Morphophonology (1): the phonology of flexional morphology

Morphophonology (2): the phonology of derivational morphology (1)

<English Phonetics: Unit 11:> /ˈmੁ.ghʃ/ /fə.ˈnet.iks/ /ˈju:n.it/ /ɪˈlev.n/ [ˈi̯ŋ.gləʃ.fə.ˈner.əks.ˈjʉฺ:n.ər. əłev.ŋ] (AusE, broad)

<Syllables & Rhythm (2)> /ˈsɪl.əb.əlz/ /ən/ /ˈrɪð.əm/ /tu:/ [ˈsi̯ł.əb.łz.ņ.ˈɪʷi̯ð.ṃ. |ˈtʰʉ̯:] (AusE, broad)

/ˈmɔːf.əʊ.fəʊ.ˈnɒl.ədʒ.i/ /ənd/ /ˈstres/ [ˌmoːf.ɐːʊ̯.fə.ˈnɔ̯ł.ədʒ.i ən ˈs̪t̪ɪes] (AusE, broad)

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2 Morphophonology (1): the phonology of flexional morphology

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4 Further reading, additional exercises, homework, whatever ...

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Syllables & Rhythm (2):

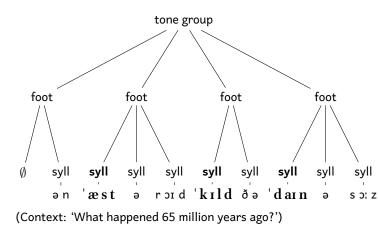
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tone group \longrightarrow foot \longrightarrow syllable \longrightarrow phoneme

This is the most minimalistic description of English phonological units that actually works.

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Morphophonology (1): the phonology of flexional morphology

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• The regular plural morpheme (typical spelling: (s)) is realized phonologically in three different ways:



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 - /z/ after a voiced consonant (but see below) or a vowel/diphthong, e.g. <dogs>/dvgz/
 - $\langle mares \rangle /meəz /$



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 /IZ/ after a 'sibilant' (/s z j 3 tj d3/), e.g. (horses) /ho:s.IZ/

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- The same applies to the $\langle s \rangle$ genitive of nouns, and to the third person singular present indicative of verbs $\langle walks \rangle / s /, \langle hugs \rangle / z /, \langle teaches \rangle / iz /.$

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- Could we perhaps interpret these facts in terms of ELISION and ASSIMILATION?

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- Note: the American and Australian pronunciation of the plural morpheme after a sibilant is more like [əz] than [Iz].



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- Note:

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{Governors-General> (plural)
{Governor-General's> (genitive singular).
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- The following remarks refer to the spelling conventions for libretti (e.g. Handel's *Messiah*) written a few centuries ago; these often contain past tense endings that have to be pronounced /Id/ for purely metrical reasons:



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- In earlier forms of English, $\langle ed\rangle$ and $\langle {}^{\prime}d\rangle$ were used to spell /1d/ and /d/ (or /t/) respectively.



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- In earlier forms of English, <ed> and <'d> were used to spell /Id/ and /d/ (or /t/) respectively.
- In today's English, $\langle ed \rangle$ and $\langle ed \rangle$ are used instead.
- "His work was soon in rehearsal Because he always usèd Purcell" (Flanders and Swann).



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Here are two of the most important ways in which words in English can be 'derived' from simpler words via the use of affixes:

- The Anglo-Saxon way: fear → 'fearless → 'fearlessness
- The French-Latin-Greek way: 'grammar \longrightarrow gram'matical \longrightarrow grammati'cality

It is even possible to mix the two strategies:

• A mixture:

 $'grammar \longrightarrow gram'matical \longrightarrow gram'maticalness$

Note what happens to the position of the stress!

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Morphophonology (2): the phonology of derivational morphology (2)

Here is another way in which one word can be 'derived' from another in English – this time by a change in the stress pattern alone, without any change to the structure of the word as a sequence of morphemes:

- in'**sult** (verb) \longrightarrow '**in**sult (noun)
- $con'vert (verb) \longrightarrow convert (noun)$

and even

inⁱvite (verb) → [']invite (noun)

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Morphophonology (2): the phonology of derivational morphology (3)

Note:	
(adjective)	(verb)
$\langle separate \rangle$	$\langle separate angle$
/ˈsepərət/	/ˈsepəreɪt/
(adjective) or (noun)	(verb)
$\langle degenerate angle$	$\langle degenerate angle$
/diˈdʒenərət/	/di'dʒenəreɪt/

 $\omega\omega\nu$

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A phonological rank scale for English Morphophonology (1): the phonology of flexional morphology Morphophonology (2): the phonology of derivational morphology (1) Further reading, additional exercises, homework, whatever...

Word Stress Patterns from Sauer's Drillbook (1)

Monday ballet famous 'mʌndeɪ 'bæleɪ 'feɪməs

cigar hotel prefer sı'ga: həʊ'tel prɪ'fɜ:

violin Chinese canteen vaɪəˈlɪn tʃaɪˈniːz kænˈtiːn

energy Catholic communist Arabic 'enədʒɪ 'kæθəlɪk 'kɒmjʊnɪst 'ærəbɪk

suspicious strategic Arabian sə'spı∫əs strə'ti:dʒık ə'reıbjən

cigarette engineer refugee 'sıgə'ret 'endʒı'nıə 'refjʊ'dʒi:

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Word Stress Patterns from Sauer's Drillbook (2)

admirable comfortably personally 'ædmərəbl 'kʌmfətəblɪ 'pɜ:sənəlɪ

philosophy ridiculous catastrophe fı'løsəfı rı'dıkjuləs kə'tæstrəfı

scientific disproportion politician saɪənˈtɪfɪk ˌdɪsprəˈpɔ:ʃn ˌpɒlɪˈtɪʃn

Protestantism criticizable 'prøtəstəntızm 'krıtısaızəbl

Catholicism considerable particularly kəˈdɒlɪsɪzm kənˈsɪdərəbl pəˈtɪkjʊləlɪ

aristocracy mathematical possibility ,ærɪ'støkrəsɪ ,mæθə'mætɪkl ,pøsə'bɪlətɪ

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Word Stress Patterns from Sauer's Drillbook (3)

pasteurization characteristic ˌpɑːstjʊəraɪˈzeɪ∫n ˌkærəktəˈrɪstɪk

pronunciation consideration prəˌnʌnsɪˈeɪʃn kənˌsɪdəˈreɪʃn

transformationally photographically trænsfə'meıjənəli fəutə'græfikəli

nationalization characterization ˌnæʃənəlaɪˈzeɪʃn ˌkærəktəraɪˈzeɪʃn

inferiority bacteriologist 1n,f1ər1'pr1ti bæk,t1ər1'pləd31st

Note: Sauer transcribes a slightly old-fashioned form of RP in a slightly old-fashioned way.

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Further reading, additional exercises, homework, whatever ... (1)

 See Eckert and Barry, pages 239 to 243 – scans of these pages are in this week's folder: http://www.spence.saar.de/courses/ phoneticswithlistening/unit11_20241



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- See Eckert and Barry, pages 239 to 243 scans of these pages are in this week's folder: http://www.spence.saar.de/courses/ phoneticswithlistening/unit11_20241
- Pay particular attention to those cases where there is a systematic difference between English and German!



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- Pay particular attention to those cases where there is a systematic difference between English and German!
- We can only skim the surface of lexical stress. Although it is important, especially from a contrastive point of view ("English is different from German!"), many of the examples given in Eckert and Barry on pages 197 to 212 are specific to one variety of British English and/or antiquated http://www.spence.saar.de/phonetics/unit11 20241

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Further reading, additional exercises, homework, whatever ... (2)

 We will examine some of these issues from a different. perspective in Unit 13. If you want to take a peek in advance, check Halliday 1970 §5.3 pp44-47: http://www.spence.saar.de/arcanum/phonetics/ Hallidav1970/The Book/2192 001.pdf http://www.spence.saar.de/arcanum/phonetics/ Halliday1970/Halliday1970 45/ http://www.spence.saar. de/arcanum/phonetics/Halliday1970/Halliday1970 45/ http://www.spence.saar.de/arcanum/phonetics/ Halliday1970/Halliday1970 46/ http://www.spence.saar.de/arcanum/phonetics/ Halliday1970/Halliday1970 47-49/

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There are more exercises in Sauer: §33 pp104-109 http://www.spence.saar.de/arcanum/phonetics/ pronunciation/pronunciation_25-33.pdf http://www.spence.saar.de/arcanum/phonetics/ pronunciation/pronunciation_25-33.mp3

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