Unit 2

Theoretical introduction (2)

Phonetics, phonology, and writing

Slides for the session of

Phonetics with Listening Practice (British)

held on

6 / 8 brumaire, an CCXXVIII de la République (28 / 30 October 2019)

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Phonetics vs. phonology: different strata

Confronting phonetics with phonology

-etic vs. -emic: a difference of perspective

Homework

Robert Spence LangSciTech Saarland University English Phonetics: Unit 2: ['m,glıʃ fə.'net.ıks 'ju:n.ıť 'tʰu:]

Theoretical Introduction (2) [,θιə.'.iet.ik.ł ,imtょ.ə.'dʌk.ʃn 'tʰuː] [,θιə.'.iet.ik.l_,imtょ.ə.'dʌk.ʃn 'tʰuː]

Phonetics, phonology, and writing [fə.ˈnet.ɪks fə(ʊ).ˈnɒł.ədʒ.i_ən ˈɹaɪt.ɪŋ]

Robert Spence [ˈɪɒb.ət ˈspens] based on material by William Barry and Ingmar Steiner [ˈbeɪ̯st on mə.ˈtʰɪəɹ.i.əł baɪ ˈwɪl.jəm ˈbæɪ.i ən ˈŋ.mɑːɪ ˈstaɪn.ɜ٠] [ən 'ʔŋ.maɐ ˈʃtaɪ.nɐ]

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Why do we need the International Phonetic Alphabet?

From the "spelling poem" (cf. Eckert and Barry p. 253)

I take it you already know Of tough and bough and cough and dough? Others may stumble but not you On hiccough, thorough, lough, and through. Well done! And now you wish perhaps, To learn of less familiar traps? Beware of heard, a dreadful word That looks like beard but sounds like bird. And dead -it's said like bed, not bead -For goodness' sake don't call it deed! Watch out for meat and great and threat (They rhyme with suite and straight and debt).

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A moth is not a moth in mother Nor both in bother, broth in brother, And here is not a match for there Nor dear and fear for bear and pear, And then there's dose and rose and lose -Just look them up – and loose and choose, And cork and work and card and ward. And font and front and word and sword. And do and go and thwart and cart – Come, come, I've hardly made a start! A dreadful language? Man alive! I'd mastered it when I was five!

 \ldots and you can find even longer versions of this poem if you google for the first line $:\mbox{-}\xspace)$

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• Primarily, we listen to someone to hear what he/she is saying.



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- Primarily, we listen to someone to hear what he/she is saying.
- What did the person say? Click here to hear [klik hiə tə hiə]



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- What did the person say? Click here to hear [klik hiə tə hiə]
 - "Ich bin in den Laden reingegangen..."?



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- What did the person say? Click here to hear [klik hiə tə hiə]
 - "Ich bin in den Laden reingegangen..."?
 - "Bin in den Laden reingegangen..."?
 - "Bin in'n Laden reingegangen..."?



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 - "Bin in den Laden reingegangen..."?
 - "Bin in'n Laden reingegangen..."?
 - "Bin in'n Lad'n reingegang'ng..."?



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- What did the person say? Click here to hear [klik hiə tə hiə]
 - "Ich bin in den Laden reingegangen..."?
 - "Bin in den Laden reingegangen..."?
 - "Bin in'n Laden reingegangen..."?
 - "Bin in'n Lad'n reingegang'ng..."?
- Orthography is not very good at capturing the details of the pronunciation:

[bɪn ɪnŋ ˈlaːdŋ raɪŋgəgaŋ]



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- Primarily, we listen to someone to hear what he/she is saying.
- What did the person say? Click here to hear [klik hiə tə hiə]
 - "Ich bin in den Laden reingegangen..."?
 - "Bin in den Laden reingegangen..."?
 - "Bin in'n Laden reingegangen..."?
 - "Bin in'n Lad'n reingegang'ng..."?
- Orthography is not very good at capturing the details of the pronunciation:

[bɪn ɪnn ˈlaːdn raɪŋgəgaŋ]

 But how much detail should we try to capture in our transcription of the sound?



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Remember that there are different LEVELS a.k.a. STRATA in language, as well as different MANIFESTATIONS (e.g. written and spoken).

TIN STEP LETDOWN		lexicogrammatical
⟨t⟩	/t/	 {graph phon}emic
τ † է	[t ^h][t][t"]	 {graph phon}etic
photons	sound waves	physical reality



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Note the conventions: $\langle t \rangle - / t / [t]$ see E&B p. 289

• (Ich bin in den Laden reingegangen.)

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standard orthography

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- (Ich bin in den Laden reingegangen.)
- standard orthography
- /?ıç bın ?ın de:n 'la:dən 'saıngə gaŋən/

a phonemic transcription

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- (Ich bin in den Laden reingegangen.)
- standard orthography
- /?ıç bın ?ın de:n 'la:dən 'ваıngə gaŋən/

a phonemic transcription

[bɪn ɪn ŋ 'la:dŋ 'ʁaɪŋgə'gaŋ]
— a phonetic transcription with word breaks

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- (Ich bin in den Laden reingegangen.)
- standard orthography
- /?ıç bın ?ın de:n 'la:dən 'ваıngə gaŋən/

– a phonemic transcription

- [bɪn ɪn ŋ 'la:dŋ 'валузэ'даŋ]
 a phonetic transcription with word breaks
- ['bɪnɪnņ'la:dŋ'ʁaɪŋgə'gaŋ]
 a phonetic transcription without word breaks

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- (Ich bin in den Laden reingegangen.)
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- /?ıç bın ?ın de:n 'la:dən 'ваıngə gaŋən/

– a phonemic transcription

- [bɪn ɪn ŋ 'la:dŋ 'валузэ'даŋ]
 a phonetic transcription with word breaks
- ['bɪnɪnņ'la:dņ'ʁaɪŋgə'gaŋ]

 $-\ensuremath{\mathsf{a}}$ phonetic transcription without word breaks

['bɪn.ɪn.ņ.'la:.dņ.'ʁaɪŋ.gə.'gaŋ]
— a phonetic transcription with syllable breaks

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 Phonetically: vowels involve merely a "shaping" of the airflow from the lungs



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- Phonetically: consonants involve more of a restriction or obstruction of the airflow



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- Phonetically: vowels involve merely a "shaping" of the airflow from the lungs
- Phonetically: consonants involve more of a restriction or obstruction of the airflow
- Phonologically: a vowel typically functions as the Nucleus of a syllable

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- Phonetically: consonants involve more of a restriction or obstruction of the airflow
- Phonologically: a vowel typically functions as the Nucleus of a syllable
- Phonologically: a consonant typically functions as the Onset (Initial) or Coda (Final) element in the structure of a syllable

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- Phonologically: a consonant typically functions as the Onset (Initial) or Coda (Final) element in the structure of a syllable
- And don't confuse vowel/consonant "letters" (()) with vowel/consonant "sounds" (/ / and []); the above is about "sounds".

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- Phonologically: a consonant typically functions as the Onset (Initial) or Coda (Final) element in the structure of a syllable
- And don't confuse vowel/consonant "letters" (()) with vowel/consonant "sounds" (/ / and []); the above is about "sounds".
- The "vowel letters" in the English spelling system are $\langle a \rangle$, $\langle e \rangle$, $\langle i \rangle$, $\langle o \rangle$, $\langle u \rangle$, and (sometimes:) $\langle y \rangle$

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• Page 40 of the course notes: official full IPA chart

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- Page 40 of the course notes: official full IPA chart
- Page 39 of the course notes: list of English phonemes



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- Page 40 of the course notes: official full IPA chart
- Page 39 of the course notes: list of English phonemes
- What differences do you notice between the two pages?

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• An -etic description is made from the perspective of an "outsider":

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- An -etic description is made from the perspective of an "outsider":
- "what gestures / shapes / sounds can I in fact observe?"

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- An -etic description is made from the perspective of an "outsider":
- "what gestures / shapes / sounds can I in fact observe?"
- An -emic description is made from the perspective of an "insider"

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- An -etic description is made from the perspective of an "outsider":
- "what gestures / shapes / sounds can I in fact observe?"
- An -emic description is made from the perspective of an "insider"
- which differences between gestures / shapes / sounds are likely to stand for a difference in MEANING within one particular language?

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• Consult the diagram on page 49 of the course notes, which shows the **places of articulation** in the human vocal tract.



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- Consult the diagram on page 49 of the course notes, which shows the **places of articulation** in the human vocal tract.
- Each of these places of articulation has a technical name (usually borrowed from Latin) and an associated adjective. This applies both to the 'active' articulator (typically: a part of the tongue) and the 'passive' articulator (typically: a part of the roof of the mouth). Follow the link to the original Wikipedia file from which the diagram is taken and **learn the adjectives**. (In addition to the English terms, you can also find the German and Spanish terms there.)

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- Familiarize yourselves with the **IPA symbols** used for phonemic transcriptions of Engish words (page 39 of the course notes). But beware! When learning the 'meaning' of IPA symbols you should always start with the full IPA table on page 40! (In transcribing English, we are often a bit sloppy in the way we use symbols like /r/ $/\Lambda//i!//e!//u!//_0!/$ and a few others.)

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