English Phonology

One-day workshop
Correspondence programme
November 2014

BBK

What is phonology?

What is phonology?
 ((the study) of the linguistic knowledge of sound patterns)

What isn't phonology?

- What isn't phonology?
- Why study phonology?

Why do phonology?

- What isn't phonology?
- Why study phonology?
- Because it provides us with fascinating questions to answer

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- Why study phonology?
- Because it provides us with fascinating questions to answer and problems to solve



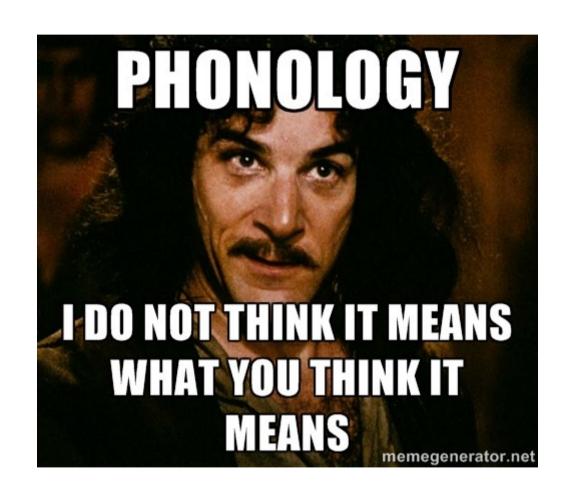
Why do phonology?

- What isn't phonology?
- Why study phonology?
- Because it provides us with fascinating questions to answer and problems to solve
- Here: a few examples of questions/ problems from the field of *universal* tendencies in sound pattern, suggesting that phonological regularities/processes are governed by principles hard-wired into the *human brain*

Universal:

- Frequently/always present in languages
- In both synchrony and diachrony
- In both adult language and child language

QUESTIONS!!



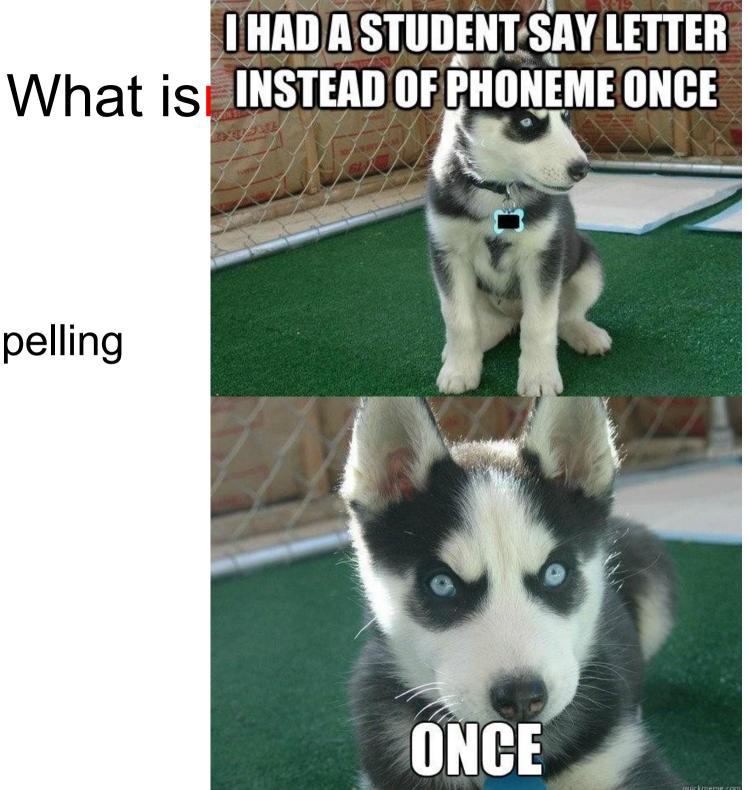
Thonology is the study of telephone etiquette. A high school student

As reported in

Amsel Greene, *Pullet Surprises*. Glenview, III.: Scott, Foresman & Co., 1969.
As cited in Fromkin & Rodman & Hyams (2011: 266)

letters/spelling

letters/spelling



letters/spelling

letters/spelling

pronunciation practice

letters/spelling

pronunciation practice

phonetics

Phonetics

physical properties of speech sounds:

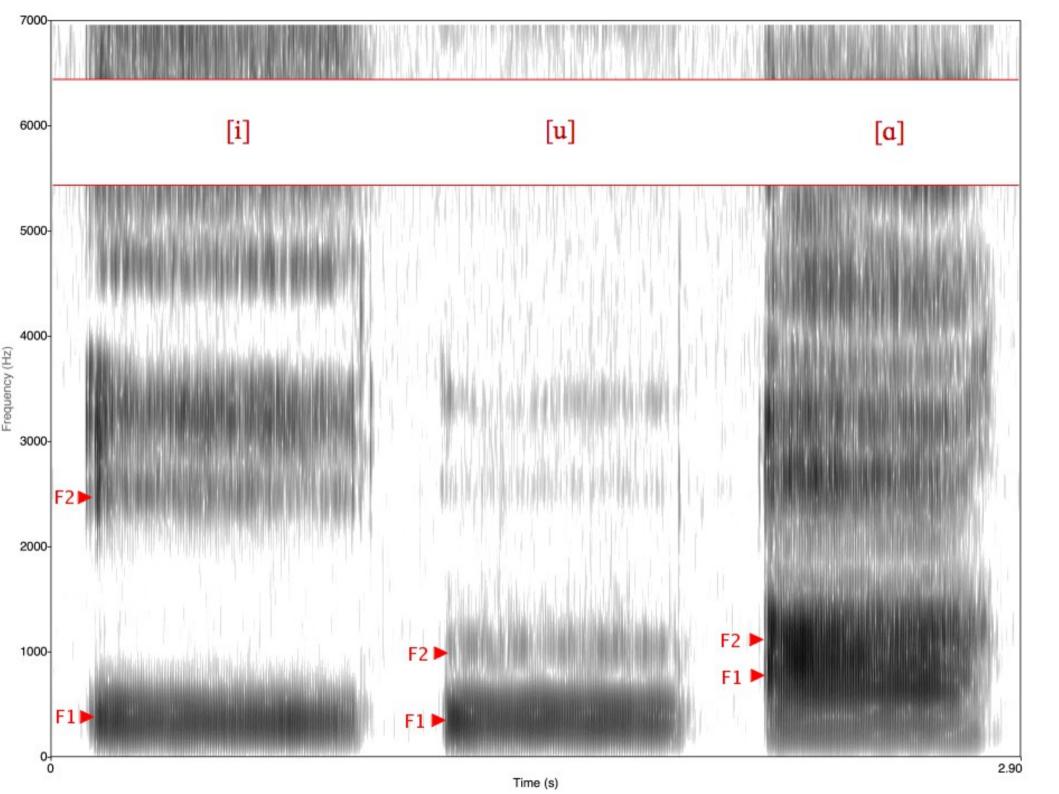
articulatory (speech production)

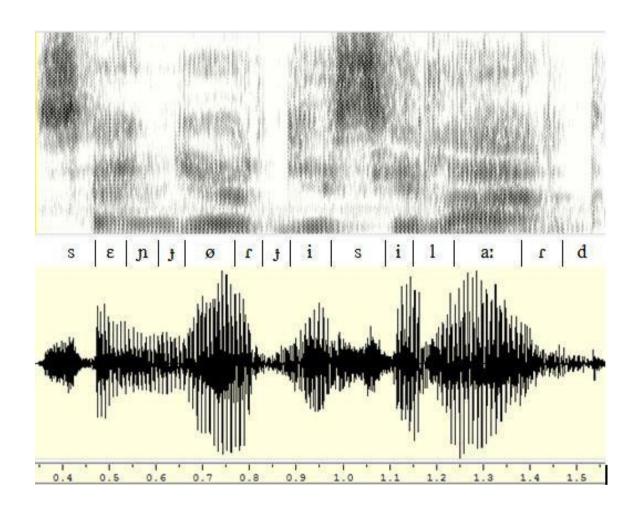


articulatory (speech production)

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- acoustic

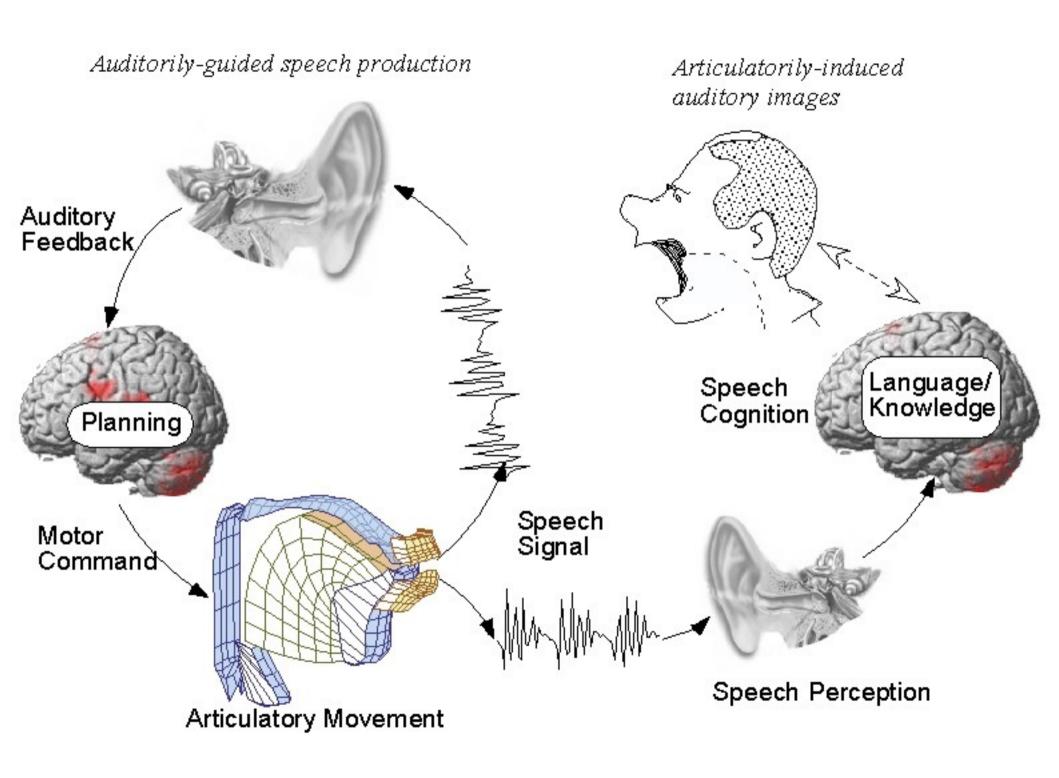
- articulatory (speech production)
- acoustic: spectrograms:





- articulatory (speech production)
- acoustic

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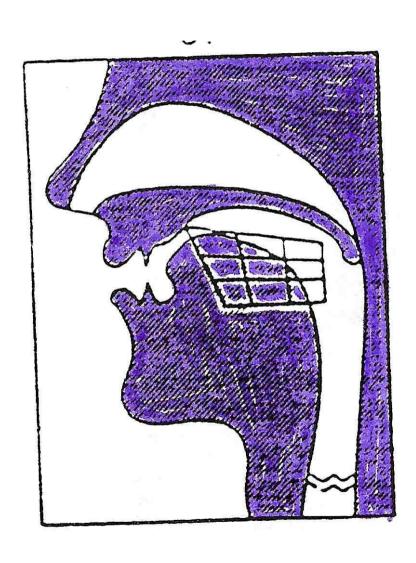
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 - monophthongs vs. diphthongs (vs. triphthongs)
 - · long vs. short

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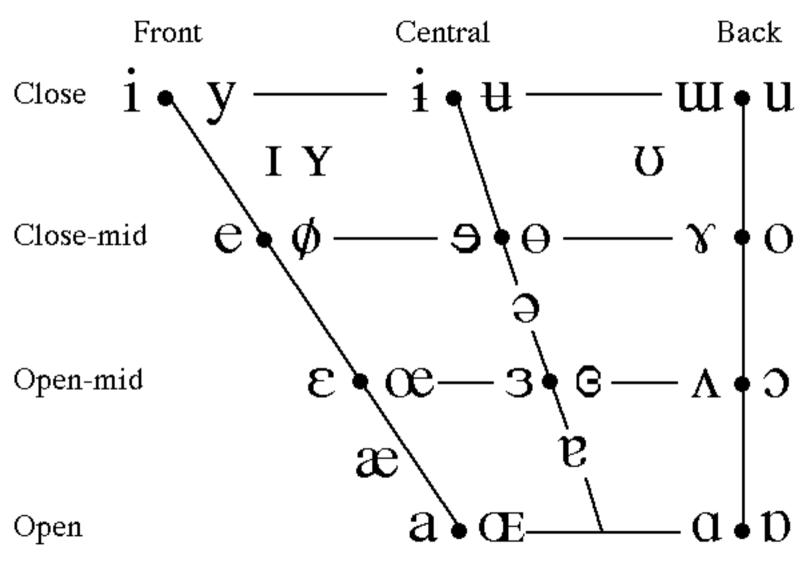
- manner of articulation:
 - monophthongs vs. diphthongs (vs. triphthongs)
 - · long vs. short
- place of articulation:
 - tongue position (tongue height + frontness/backness)
 - · lip position

the Cardinal Vowel Chart

the Cardinal Vowel Chart

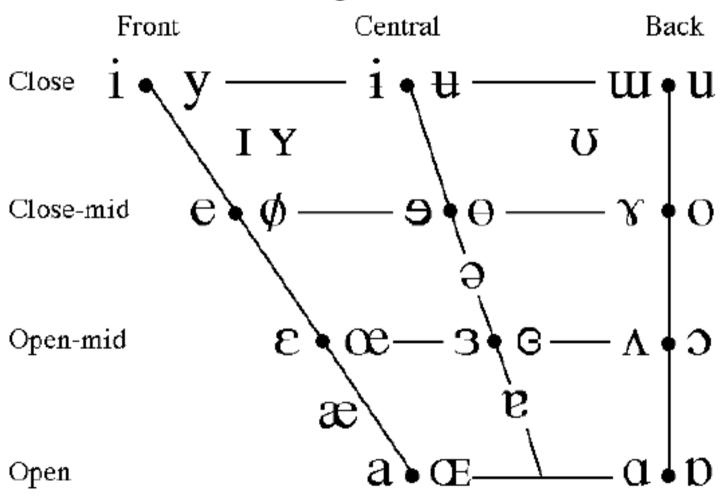


the Cardinal Vowel Chart



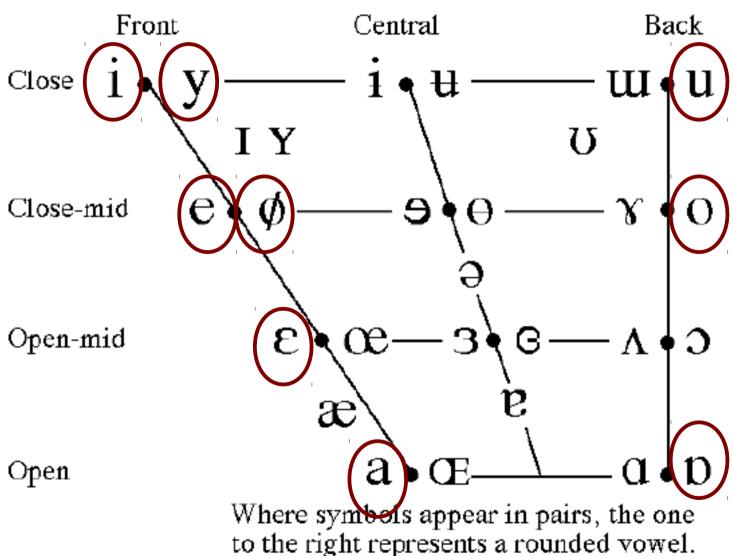
Where symbols appear in pairs, the one to the right represents a rounded vowel.

Can you find the vowels of Hungarian?

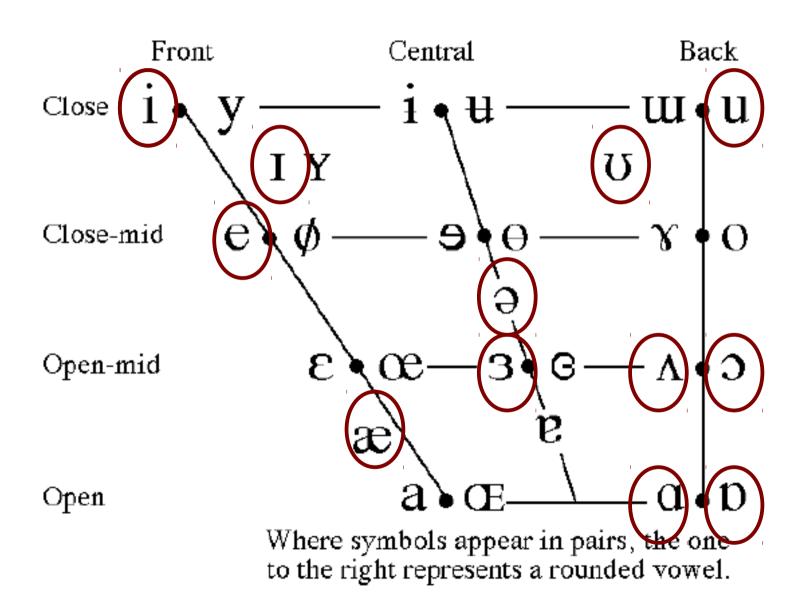


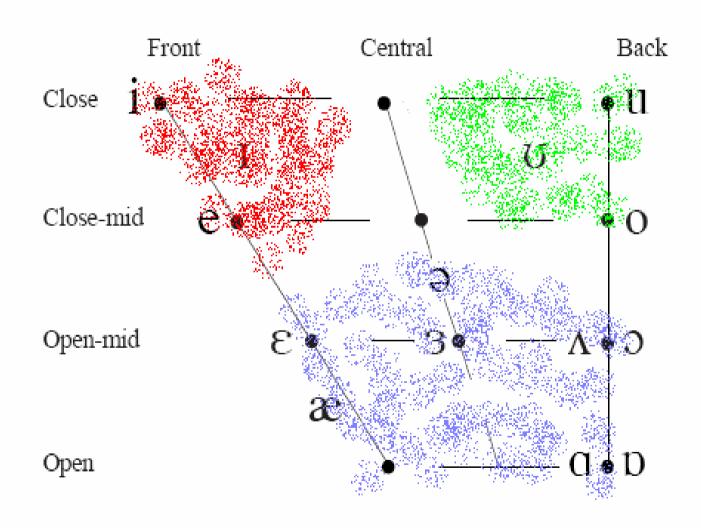
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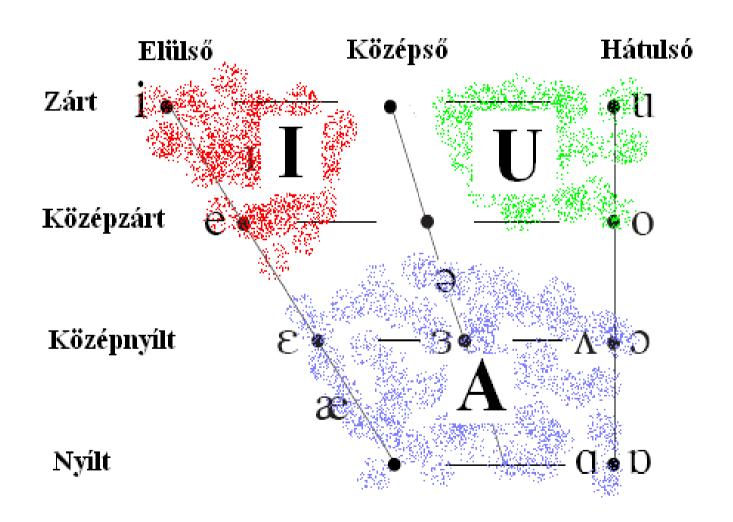
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The monophthongs of RP







• I, U, A – three basic vowels

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- Similar ternary distinctions in English phonology?
- Reduced vowels, diphthongs (RP)
- Plus:

Hiatus: a sequence of two heterosyllabic vowels: V₁V₂

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- V₁ is tense (= Prevocalic Tenseness)
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across morphemes: hiatus resolution by filling



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- 1. in most varieties of E: 2-way glide formation
- /-l/i:/: happy [j] again
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What is the connection between the quality of the vowels and the glide?

Link maze

Try again! Two apples Four oranges

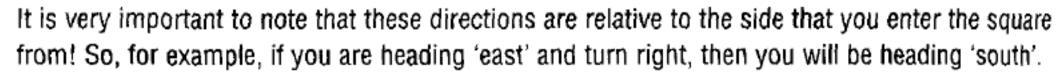
Three apples Blue eyes Area office

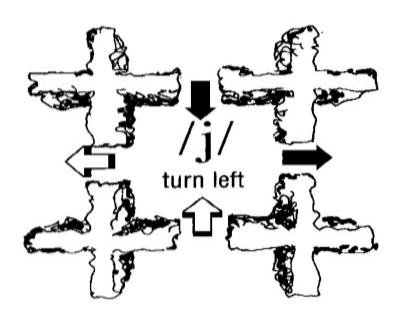
Players move from square to square according to the following rule:

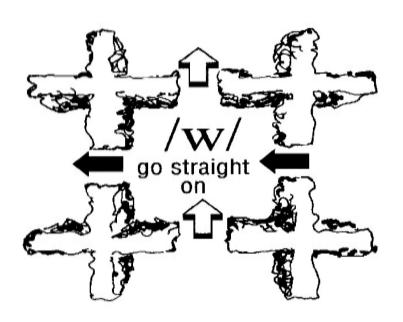
If the linking sound is /j/, turn left.

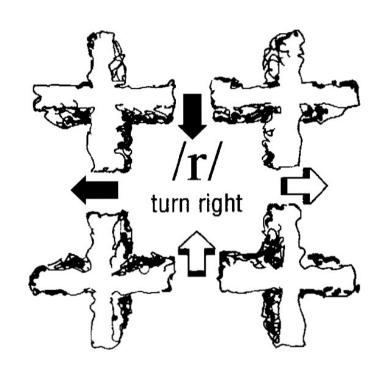
If the linking sound is /w/, go straight on.

If the linking sound is r, turn right.





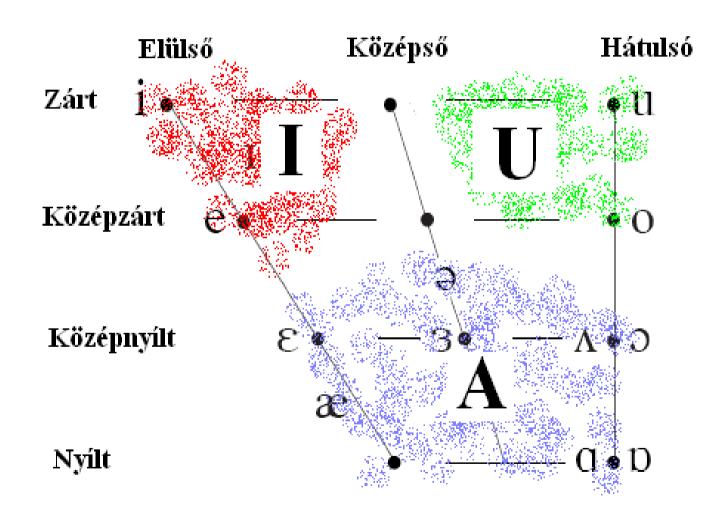




Key

The correct route is as follows:

Hello everybody! - Draw a line - We saw a film - I agree - Where are you? - Blue eyes - Go to England - Law and order - A few apples - Four and a half - Give me a ring - Answer a question - True or false? - Tea or coffee? - We aren't ready - Go ahead! - Score a goal (exit Q)



What isn't phonology?

letters/spelling

pronunciation practice

phonetics

ex.1

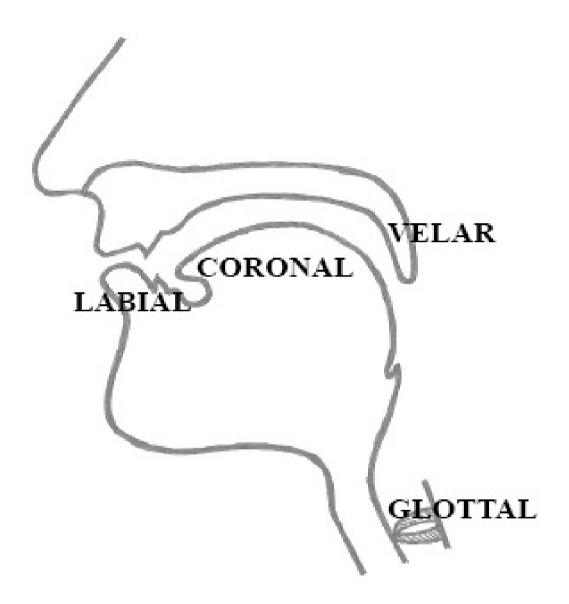
tune, toon
due, dew, do
adieu, ado
new, knew, gnu
[tuːn], [duː], [əˈduː], [nuː]

- The dropping of the yod (/j/) of /ju:/ after certain consonants
- Dialectal variation after coronals

/t/ /d/ /n/



(/s/ /z/ /l/ /θ/) ((/ʃ/ /ʒ/ /ʧ/ /ʤ/ /ð/ /r/))



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(/s/ /z/ /l/ /θ/) ((/ʃ/ /ʒ/ /ʧ/ /ʤ/ /ð/ /r/)) + /j/

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No homorganic initial consonant clusters

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Does this have anything to do with the fact that /j/ is also coronal itself?

Is *tj- ill-formed in AmE/GA for the same reason that, say, *tl- is ill-formed?

But: venue vs avenue??

- Yod-dropping
- And...

ex.2

[ʃaʊt] [vɔɪs]	[maɪnd]	[lɪmp]
---------------	---------	--------

[kraʊd] [nɔɪz] [buːst]	[θʌmb]
---------------	-----------	--------

[lend]

[lɪŋk]

[bæŋg]

[ʃaʊt] [vɔɪs] [maɪnd] [lɪmp]

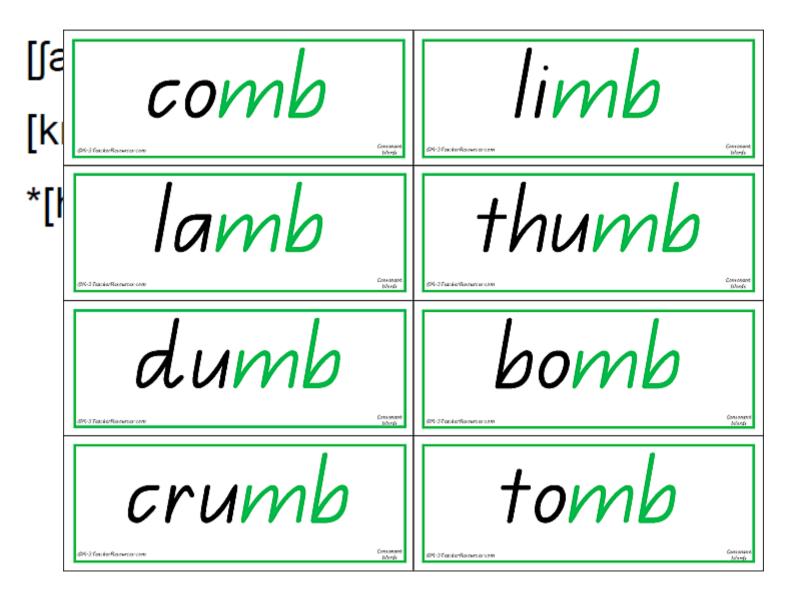
[kraʊd] [buːst] *[θʌmb]

*[haʊm] *[kɔɪp] *[raɪŋk] [hʌnt]

[lend]

[lɪŋk]

*[bæŋg]



[limp] *[θ**ʌmb**] [hʌnt] [lend] [lɪŋk] *[bæŋg]

- Yod-dropping
- /aʊ/ can only be followed by coronal consonants (shout, crowd, south, town, etc.)
- /ɔɪ/ can only be followed by alveolars (exploit, void, voice, noise, coin, coil, moist, point)
- a long vowel is only possible before a consonant cluster if the cluster is made up of coronals (mind, boost, faint, etc.)
- nasal+voicedC# is only possible if both are coronals (cf. humm#ed)

phonotactics

How many of these words start with a consonant cluster?

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pterodactyl, knead, mnemonic, choir, wrath, gnome, rhythm, cube, wrapper, psyche, xenophobia, proportion, knife, Ptolemy, thyme, puritan, psalm, breakthrough, gnocchi, knitting, knob, gnarly, shivering, wholewheat, xerox, bureau, gnu, xylophone, schedule, knuckle, pseudonym, queen, psychic, thunder, wreck, Xanadu

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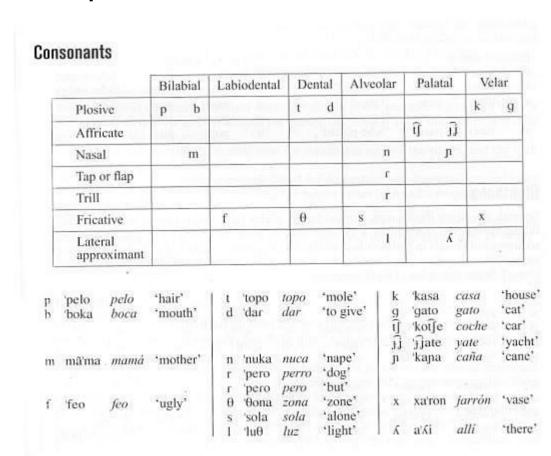
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- + universally, coronals are special: coronal vs noncoronal asymmetry

• In other languages, e.g., (Standard) Spanish:

More than a dozen consonants in the inventory

Five consonants used in word-final position:

/l/, /r/, /d/, /n/, and /s/ coronals



- In other languages
- In child language:

[tɪs] 'kiss'

[taʊ] 'cow'

[tin] 'clean'

[maɪtl] 'Michael'

[daɪtər] 'diaper'

[pati] 'Papi'





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 Coronal – non-coronal, etc. - markedness, implications

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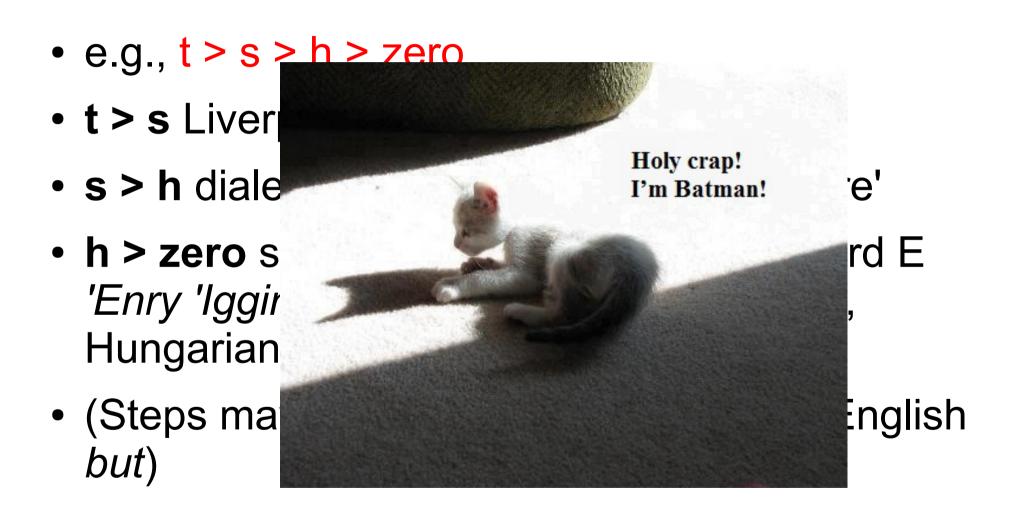
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• e.g., t > s > h > zero

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- t > s Liverpool English letter
- s > h dialects of Spanish estamos 'we are'
- h > zero standard E find 'im, non-standard E 'Enry 'Iggins, Romance e.g. Fr. hache 'h', Hungarian cseh 'Czech'

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- (Steps may be skipped: t > h Liverpool English but)





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Why should this be so?

Sounds gradually decomposing?

e.g., t > s > h > zero
 voiceless voiceless
 coronal coronal
 stop

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Evidence for segment-internal structure: components = features!

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What are these features? How many are there? Are they universal? How are they to be represented? ...

```
one possible model: binary features, e.g.: [±voiced], [±nasal], [±aspirated] (or: [±spread glottis]), [±continuant], [±sonorant], [±high], [±low], etc. ([+high, -low], [-high, +low], [-high, -low], *[+high, +low])
```

redundant (predictable, non-distinctive) features vs.

nonredundant, distinctive features: nasalisation of vowels, English vs. French

[voiced]: distinctive for English obstruents but redundant for sonorants

predictable = redundant = nondistinctive = nonphonemic redundancy rules e.g.

Feature Specifications (partial)

```
p b m
consonantal + + +
labial + + +
voiced - + +
nasal - - +
```

Nasal Assimilation $V \rightarrow [+nasal] / \underline{\hspace{1cm}} C$ [+nasal]



Binary features: +/-

Or: unary (monovalent/privative)

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both divide sounds into two classes: [+nasal] vs. [-nasal] / [nasal] vs. zero

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this is not true

the classes do not behave symmetrically

An alternative model

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 theoretical gain: a privative model of phonological oppositions is more constrained

Unary primes: elements

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like chemical elements or colours

Unary primes: elements

like chemical elements or colours: independent interpretation + compounds

Elements for vowels

Element

Independent interpretation

11

(1) Some elements

$$I = \begin{bmatrix} -\text{ROUND} \\ -\text{BACK} \\ +\text{HIGH} \\ -\text{ATR} \\ -\text{low} \end{bmatrix}$$

$$I = \begin{bmatrix} -\text{ROUND} \\ -\underline{\text{BACK}} \\ + \text{HIGH} \\ -\text{ATR} \\ -\text{low} \end{bmatrix} \quad U = \begin{bmatrix} \underline{+} & \text{ROUND} \\ + & \text{BACK} \\ + & \text{HIGH} \\ -\text{ATR} \\ -\text{low} \end{bmatrix} \quad A = \begin{bmatrix} -\text{ROUND} \\ + & \text{BACK} \\ -\text{HIGH} \\ -\text{ATR} \\ +\text{low} \end{bmatrix}$$

Elements for vowels

```
      Simplex
      Compound

      a [A]
      e [A, I]

      i [I]
      o [A, U]

      u [U]
      ü [U, I]
```

Recall: Lenition scales

e.g., t > s > h > zero
 voiceless voiceless
 coronal coronal
 stop

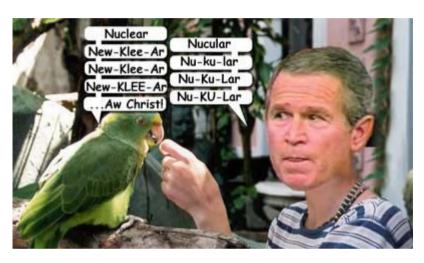
Lenition as segmental decomposition

• But first: metathesis: ex.3

Latin parabola	Spanish <i>palabra</i> 'word'
Latin <i>miraculum</i>	Spanish <i>milagro</i> 'miracle'
Latin <i>periculum</i>	Spanish <i>peligro</i> 'danger, peril'
asterisk	Asterix
bird	Old English bryd
horse	Old English hros
three	third, thirty and thirteen

you t churc		Polish <i>mleko</i>	English milk
		teher 'burden'	terhet (acc.), terhed (poss.), terhek (pl.) 'burden'
		Classical Arabic zawğ	Egyptian Arabic <i>gōz</i> 'husband'
	ner, we <i>aks</i> to bless every th door that ers service your name."	Persian <i>zanğabīl</i>	Egyptian Arabic ganzabīl 'ginger'
	Grady McKinney)	Chaucer, Caxton, and	Shakespeare and
	the C	Coverdale Bible ax 'ask'	the King James Bible <i>ask</i>
		Child language [deks]	desk
		Child language [taɪk]	kite

Metathesis



- Metathesis of features
- Hungarian child language: [hómat] 'tomorrow', [temmak] 'yesterday' (Szigetvári p.c.)

```
h o: n a p
nasal stop
coronal labial
```

```
h o: n a p
nasal stop
coronal<->labial
```

```
h o: n a p

nasal stop
labial coronal

t

m

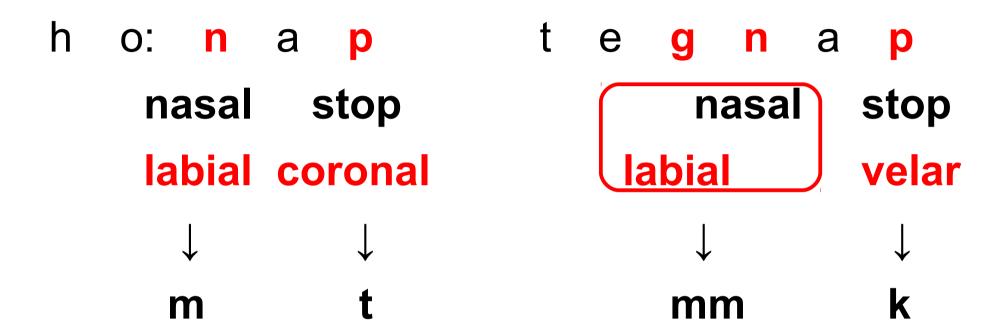
t
```

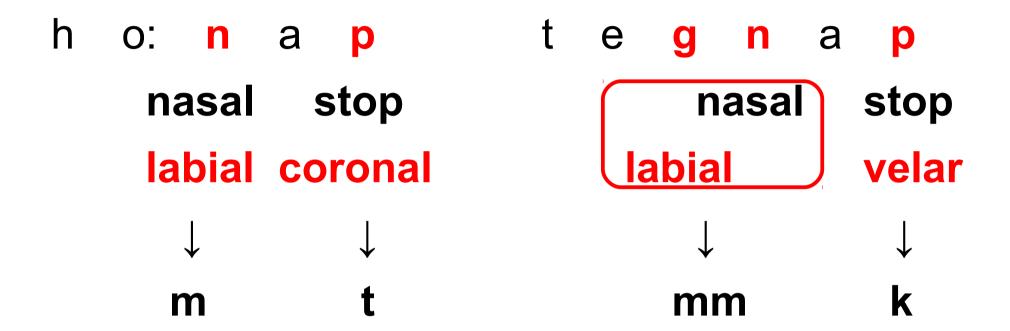
```
h o: n a p t e g n a p

nasal stop nasal stop

labial coronal velar <-> labial

m t
```





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Asymmetries, e.g., markedness (coronal vs. non-coronal)

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e.g.: Chumash consonant harmony:

```
(1)
     Sibilant harmony in Ineseño Chumash
       /ha-s-xintila-waš/
                                       [hašxintilawaš]
                                                               'his former gentile'
                                                               'his gentile'
cf.
       /ha-s-xintila/
                                       [hasxintila]
                                       [sis<sup>h</sup>uleqpeyus]
       /s-iš-sili-uluaqpey=us/
                                                               'they two want to follow it'
       /p-iš-al-nan?/
                                                               'don't you two go'
cf.
                                       [pišanan?]
```

(McCarthy 2007:2)

 Certain sound segments can be "invisible", "transparent": "long-distance" relations of consonant/vowel harmony

e.g.: Chumash consonant harmony

e.g.: consonant harmony in child language: almost universal! ($cup \rightarrow p \wedge p / k \wedge k$, $dog \rightarrow g \circ g$,

 $coat \rightarrow ko:k, butter \rightarrow bhbe$

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- e.g.: Hungarian vowel harmony

Hungarian vowel harmony (ex.4)

-val -vel

Hungarian vowel harmony

-val -vel

Gábor

Márta

Balázs

Béla

Daniella

Krisztián

Hungarian vowel harmony

-val -vel

Gábor Eszter

Márta Csenge

Balázs Dénes

Béla Lili

Daniella

Krisztián Dzsenifer

Hungarian vowel harmony

-val

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Daniella

Krisztián

Dávid

Dzsasztin

-vel

Eszter

Csenge

Dénes

Lili

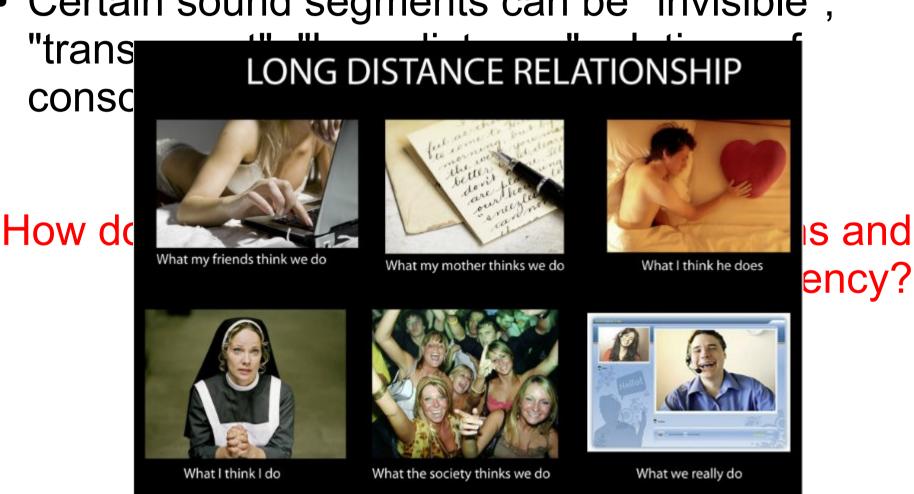
Illés

Dzsenifer

 Certain sound segments can be "invisible", "transparent": "long-distance" relations of consonant/vowel harmony

How do we deal with long-distance relations and segment transparency?

Certain sound segments can be "invisible",



Meme Center ...

memecenter.com

- Certain sound segments can be "invisible", "transparent": "long-distance" relations of consonant/vowel harmony
- Certain sound segments can "remember" where they (historically/morphologically) come from



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e.g., AmE/GA ra:ɪɾə Canadian E. raɪɾə vs. vs.

raire

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e.g., AmE/GA ra:ɪɾə Canadian E. raɪɾə cf. ride vs.
```

rairə rəirə cf. write

The interaction of tapping/flapping and Pre-Fortis Clipping

(3)

Vowel	<u>Fully long</u>	Shortened		
<u>phoneme</u>				
/i:/	[i:] be, been, easy, bead, siege, feel	[i] beat, week, piece, beat, teach		
/au/	[a:v] now, town, round, house (v), loud	[au] out, mouse, counting, house (n)		

(4)

T-Voicing and T/D-tapping/flapping

```
t \rightarrow d \rightarrow r

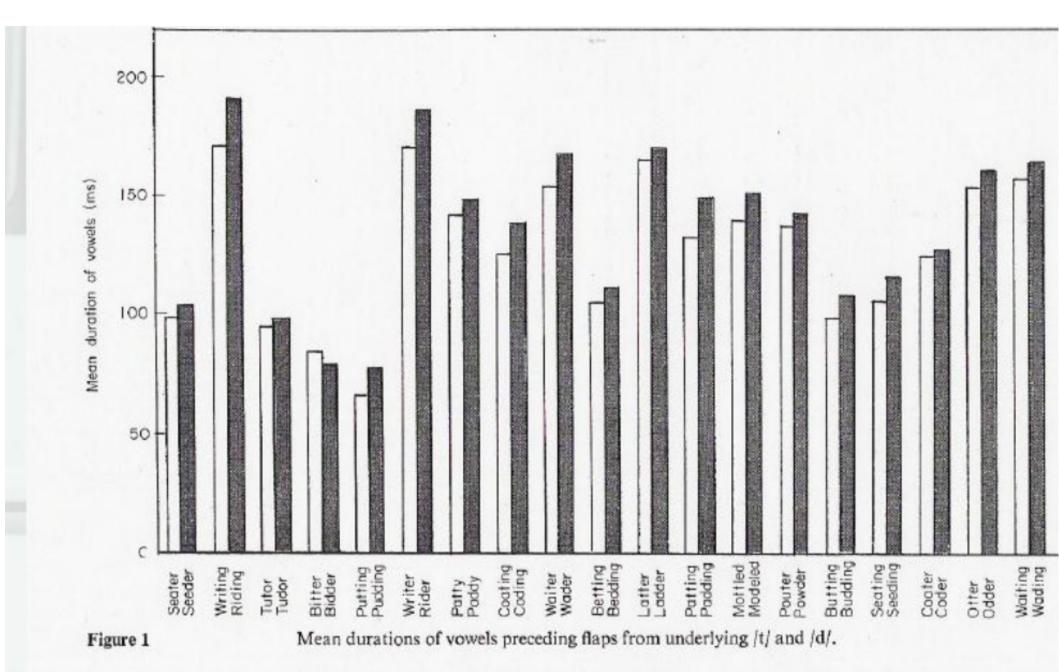
d \rightarrow r

e.g. matter, butterfly, nobody, little

but militate *

right awáy, not a jóke, get úp
```

writing vs. riding?



from Fox, Robert A. and Dale Terbeek (1977) Dental flaps, vowel duration and rule ordering in American English. Journal of Phonetics 5: 27-34.)

rule interaction =

rule ordering

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- e.g., AmE/GA / Canadian E.
- e.g., Hungarian voicing assimilation

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```
e.g., zsebkendő 'hanky' /-pk-/, hasbeszélő 'ventriloquist' /-ʒb-/, but:

azt gondolom... 'I think...' /-sg-/

azt jelenti... 'it means...' /-sj-/
```

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- e.g., AmE/GA / Canadian E.
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How do we explain cases of opacity?

rule interaction =

rule ordering





What are the two differences in pronunciation?

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What are the two rules producing the differences?

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What are the two rules producing the differences?

How do the two rules interact?

rule interaction =

rule ordering

- Certain sound segments can be "invisible", "transparent": "long-distance" relations of consonant/vowel harmony
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- Speakers of certain languages can pronounce consonant-final words

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vs. languages like Italian/Japanese, child language ($back \rightarrow ba:, boat \rightarrow bo:, down \rightarrow da:nə$)

 Certain sound segments can be "invisible", "transparent": "long-distance" relations of consonant/vowel harmony

 Certain sound segm where they (historication (opacity)

Speakers of certain consonant-final work

vs. languages like Italia language (back → ba:, da:nə), Kovbojok



Megosztom veletek a receptem Egész éjjel eztet kerestem

English with an Italian accent

Comes the morning When I can feel That there's nothing Left to be concealed Moving on a scene surreal Know my heart will never Never be far from here

Sure as I'm breathing Sure as I'm sad I'll keep this wisdom In my flesh I leave here believing More than I had And there's a reason I'll be Reason I'll be back

Francesco (20, Manfredonia) reading partial lyrics of Eddie Vedder's *No Ceiling*Source: Bálint Huszthy

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How do we explain the special status of wordfinal consonants? How do we explain the different repair strategies?

- Certain sound segments can be "invisible", "transparent": "long-distance" relations of consonant/vowel harmony
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- Speakers of certain languages can pronounce consonant-final words
- Speakers of certain languages can pronounce sequences of consonants word-initially

ex.5

Initial sC sequences

[?istadi]	[iskul]	[isteʃən]	asztal	[patula]
estudiar	escuela	station	stol	spatula
étudier	école	estación		
study	iskola			
	schola			
	school			

Egyptian Arabic	Sinhalese	Hindi	Spanish	French	Pidgin/creole English	Hungarian	Hungarian child language
[?iski:] < ski [?istadi] < study [?ispirin] < spring [?istiri:t] < street	[iskul] < school [istik] < stick [istiri] < Sanskr. stri 'woman'	[ispeling spelling skul] school stefen] station	España 'Spain' estudiar 'study' escuela 'school' estrés 'stress' esquiar 'ski' estación 'station'	école 'school' étudier 'study' état 'state'	Nigerian Pidgin E.: tori < story Jamaican Creole E.: [kratʃ] < scratch [traŋ] < strong	iskola (arch. oskola) 'school' cf. Lat. schola István cf. Lat. Stephanus asztal 'table' cf. Slavic stol ostrom 'siege'	[koda] < Skoda [patula] < spatula 'ibid.' [tand] < strand 'beach' [top] < stop 'stop (sign)'
			estado 'state'			cf. German <i>Sturm</i>	

Initial sC sequences

How the Spanish pronounce English words http://www.youtube.com/watch?v=dn8CkmqLTdg

e-insertion
plus Andalusian s-to-h
plus word-final consonants
(e.g., Steven Spielberg)



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- Certain sound segments can "remember" where they (historically/morphologically) come from (opacity)
- Speakers of certain languages can pronounce consonant-final words
- Speakers of certain languages can pronounce sequences of consonants word-initially

How do we explain the special status of word-initial consonant sequences in general? How do we explain the even more special status of *certain* word-initial consonant sequences? How do we explain the different repair strategies?

- Certain sound segments can be "invisible", "transparent": "long-distance" relations of consonant/vowel harmony
- Certain sound segments can "remember" where they (historically/morphologically) come from (opacity)
- Speakers of certain languages can pronounce consonant-final words
- Speakers of certain languages can pronounce sequences of consonants word-initially, etc.

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- Here: a few questions/problems from the field of universal tendencies in sound pattern (typologically different/genetically unrelated languages, synchrony/diachrony, child language, etc.), suggesting that phonological regularities/processes are governed by principles hard-wired into the human brain

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- Why should things be this way??

- Because it provides us with fascinating questions to answer and problems to solve
- Here: a few questions/problems from the field of universal tendencies in sound pattern (typologically different/genetically unrelated languages, synchrony/diachrony, child language, etc.)
- Why should things be this way??
- And there are quite a few more questions out there for YOU to answer! :-)

Nerds are allowed unironically enthusiastic about stuff. Nerds are allowed to love stuff-like, jump-up-and-down-in-your-chair-can't-control-yourself love it. When people call people nerds, mostly what "You like stuff," they're saying is which is not a good Like, "You are too enthusiastic about the miracle of human consciousness." - John Green

