Unit 1

Theoretical introduction (1)

The place of phonetics in a functional theory of language

Slides for the session of *Phonetics with Listening Practice (British)* held on le quintidi 5 floréal de l'année CCXXXI du calendrier républicain Tuesday 25 April 2023

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Phonetics vs. phonology

Robert Spence English Department Saarland University

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The place of language in the evolutionary order of nature:

• matter + life \rightarrow function



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The place of language in the evolutionary order of nature:

- matter + life \rightarrow function
 - $\mathsf{life} + \mathsf{society} o \mathsf{value}$

Gebrauchswert ↓ Tauschwert



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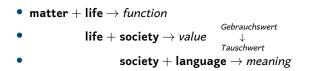
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The place of language in the evolutionary order of nature:

$$\begin{array}{ll} \bullet & \mathsf{matter} + \mathsf{life} \to \mathit{function} \\ \bullet & \mathsf{life} + \mathsf{society} \to \mathit{value} & \downarrow \\ & \downarrow \\ \mathsf{Tauschwert} \\ \bullet & \mathsf{society} + \mathsf{language} \to \mathit{meaning} \end{array}$$

- [before there is grammar:]
- sounds 'standing for' meanings \rightarrow words



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The place of language in the evolutionary order of nature:

•	$matter + life o \mathit{function}$		
•	$life + society o \mathit{value}$	Gebrauchswert ↓ Tauschwert	
•	society + langua	$society + language o \mathit{meaning}$	

- [before there is grammar:]
- sounds 'standing for' meanings \rightarrow words
- [once there is grammar:]
- sounds 'stand for' words ...



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The place of language in the evolutionary order of nature:

• r	natte	$\mathbf{er} + life o \mathit{function}$	
•		$life + society o \mathit{value}$	Gebrauchswert ↓ Tauschwert
•	society + language o meaning		
	•	[before there is grammar:]	

- sounds 'standing for' meanings \rightarrow words
- [once there is grammar:]
- sounds 'stand for' words ...
 - ... and words in structures 'stand for' meanings



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The place of language in the evolutionary order of nature:

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•	$life + society o \mathit{value}$	Gebrauchswert ↓ Tauschwert
•	$society + language o \mathit{meaning}$	

- [before there is grammar:]
- sounds 'standing for' meanings \rightarrow words
- [once there is grammar:]
- sounds 'stand for' words ...
 - ... and words in structures 'stand for' meanings
- thus, adult human language has three 'levels' or 'strata':



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The place of language in the evolutionary order of nature:

,	$matter + life o \mathit{function}$	
,	$\textbf{life} + \textbf{society} \rightarrow \textit{value}$	Gebrauchswert ↓ Tauschwert
•	society + langua	${f ge} o {\it meaning}$
	• [before there is grammar:]	

- [Derore there is grammar:]
- **sounds** 'standing for' **meanings** → *words*
- [once there is grammar:]
- sounds 'stand for' words ...
 - ... and words in structures 'stand for' meanings
- thus, adult human language has three 'levels' or 'strata':
- meanings



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The place of language in the evolutionary order of nature:

matter + life o function		
$life + society o \mathit{value}$	Gebrauchswert ↓ Tauschwert	
$society + language o \mathit{meaning}$		
 [before there is grammar:] sounds 'standing for' meanings [once there is grammar:] 	ightarrow words	
sounds 'stand for' words		
 and words in stru 	ctures 'stand for' meanings	

- thus, adult human language has three 'levels' or 'strata':
- meanings
- ... stood for by **wordings**



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The place of language in the evolutionary order of nature:

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$\textbf{life} + \textbf{society} \rightarrow \textit{value}$	Gebrauchswert ↓ Tauschwert	
$society + language o \mathit{meaning}$		
 [before there is grammar:] sounds 'standing for' meanings [once there is grammar:] sounds 'stand for' words and words in stru 	→ words ctures 'stand for' meanings	
• thus, adult human language has	•	
• meanings		
• stood for by wording	5	
•	stood for by sound(ing)s	



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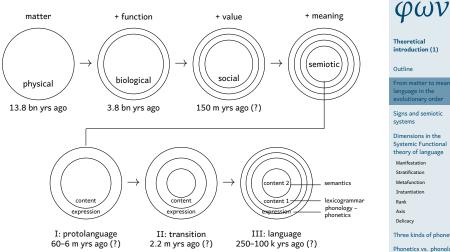


Figure: From matter to meaning (after C. M. I. M. Matthiessen)

evolutionary order Signs and semiotic Dimensions in the Systemic Functional theory of language Three kinds of phonetics

Signs and semiotic systems

(Fig. 2 here)

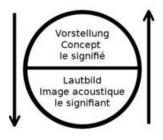


Figure: The sign function (Saussure)



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Source: Wikipedia



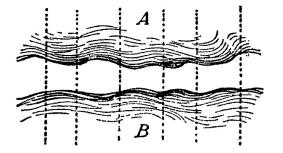


Figure: Without language, thought and sound are indefinite and indistinct

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Source: Wikipedia

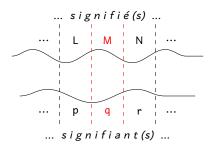
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... 'l'arbitraire du signe' ... 'valeur' ...

language (... L/p, M/q, N/r, ...) is a form, not a substance



- that q stands for M is ARBITRARY
- M is only defined by its VALUE relative to { ... L ... N ...}
- **q** is only defined by its VALUE relative to { ... p ... r ... }
- society (a speech community) is necessary to define these SYSTEMS of values



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Figure: Klingon has 8 different concepts where English has only 'fight'; and don't confuse the final sound of "qaH" $[q^{h}\alpha x]$ ('Sir!') vs "qagh" $[q^{h}\alpha y]$ ('worms')

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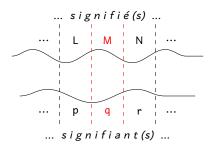
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... 'l'arbitraire du signe' ... 'valeur' ...

language (... L/p, M/q, N/r, ...) is a form, not a substance



- that q stands for M is ARBITRARY
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A semiotic system = a system of signs

• Each sign can only be defined by its place in the system of signs.



Source: Wikipedia

- Language is a system of signs.
- Read:

Ferdinand de Saussure: *Cours de linguistique générale*. 1916. Available online.

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From a bistratal to a tristratal semiotic system

(Fig. 4 here)



Figure: John Maynard Smith ← click for link to video extract

The full video on the origin of life is available in six parts here: https://www.youtube.com/watch?v=viP5kBMtZ18 https://www.youtube.com/watch?v=EzP3m_XlwV8 https://www.youtube.com/watch?v=fRzRbohQ5Zs https://www.youtube.com/watch?v=Il-yoFGogyA https://www.youtube.com/watch?v=dmrjelcd900 https://www.youtube.com/watch?v=tzGDio2ARPw

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The theory of language adopted in this course is **Systemic Functional Linguistics (SFL)**. The theory provides a number of dimensions for describing language, the most important of which are described here: φων

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- **4** Instantiation (of the potential by the actual)
- **§** Rank (bigger units made up of smaller ones)

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- Instantiation (of the potential by the actual)
- **S** Rank (bigger units made up of smaller ones)
- 6 Axis (choice vs. chain)

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- 6 Axis (choice vs. chain)
- Delicacy ('broad' vs. 'narrow' descriptions)

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At the point where language interfaces with physical reality, there are three possible ways in which it can 'manifest itself':

• sound (pronunciation) ... from the very beginning



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At the point where language interfaces with physical reality, there are three possible ways in which it can 'manifest itself':

- sound (pronunciation) ... from the very beginning
- writing (orthography) ... since about 3000 B.C.



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At the point where language interfaces with physical reality, there are three possible ways in which it can 'manifest itself':

- sound (pronunciation) ... from the very beginning
- writing (orthography) ... since about 3000 B.C.
- "signing" (Gebärdensprache) ... for the hearing-impaired

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• **Phonetics** (are those human sounds? AND: are those the kinds of sounds you'd hear in English?)



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- **Phonology** (are those the kinds of sound patterns you find in English words and sentences?)
- **Phonetics** (are those human sounds? AND: are those the kinds of sounds you'd hear in English?)

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- Lexicogrammar (what do the words and sentences mean... regardless of context?)
- **Phonology** (are those the kinds of sound patterns you find in English words and sentences?)
- **Phonetics** (are those human sounds? AND: are those the kinds of sounds you'd hear in English?)

- **Discourse Semantics** (what do the words and structures mean... in context?)
- Lexicogrammar (what do the words and sentences mean... regardless of context?)
- **Phonology** (are those the kinds of sound patterns you find in English words and sentences?)
- **Phonetics** (are those human sounds? AND: are those the kinds of sounds you'd hear in English?)

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- **Register** (what's going on? who's taking part? what role is language playing?)
- Discourse Semantics (what do the words and structures mean... in context?)
- Lexicogrammar (what do the words and sentences mean... regardless of context?)
- **Phonology** (are those the kinds of sound patterns you find in English words and sentences?)
- **Phonetics** (are those human sounds? AND: are those the kinds of sounds you'd hear in English?)

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- Genre (what kind of text for what social purpose?)
- **Register** (what's going on? who's taking part? what role is language playing?)
- **Discourse Semantics** (what do the words and structures mean... in context?)
- Lexicogrammar (what do the words and sentences mean... regardless of context?)
- **Phonology** (are those the kinds of sound patterns you find in English words and sentences?)
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- (Code) (who's an insider? e.g. two insiders: "Unn?" "Jo.")
- Genre (what kind of text for what social purpose?)
- Register (what's going on? who's taking part? what role is language playing?)
- **Discourse Semantics** (what do the words and structures mean... in context?)
- Lexicogrammar (what do the words and sentences mean... regardless of context?)
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- Ideology (what is thinkable? what is doable?)
- (Code) (who's an insider? e.g. two insiders: "Unn?" "Jo.")
- Genre (what kind of text for what social purpose?)
- Register (what's going on? who's taking part? what role is language playing?)
- **Discourse Semantics** (what do the words and structures mean... in context?)
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- (Material reality: Bipedal apes living)
- Ideology (what is thinkable? what is doable?)
- (Code) (who's an insider? e.g. two insiders: "Unn?" "Jo.")
- Genre (what kind of text for what social purpose?)
- **Register** (what's going on? who's taking part? what role is language playing?)
- **Discourse Semantics** (what do the words and structures mean... in context?)
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- (Material reality: Bipedal apes living)
- Ideology (what is thinkable? what is doable?)
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- **Phonetics** (are those human sounds? AND: are those the kinds of sounds you'd hear in English?)
- (Material reality: Bipedal apes making noises with their faces)

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- "Language: the noises we make with our faces in order to live"
- (Material reality: Bipedal apes living)
- Ideology (what is thinkable? what is doable?)
- (Code) (who's an insider? e.g. two insiders: "Unn?" "Jo.")
- Genre (what kind of text for what social purpose?)
- **Register** (what's going on? who's taking part? what role is language playing?)
- **Discourse Semantics** (what do the words and structures mean... in context?)
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- **Phonology** (are those the kinds of sound patterns you find in English words and sentences?)
- **Phonetics** (are those human sounds? AND: are those the kinds of sounds you'd hear in English?)
- (Material reality: Bipedal apes making noises with their faces)



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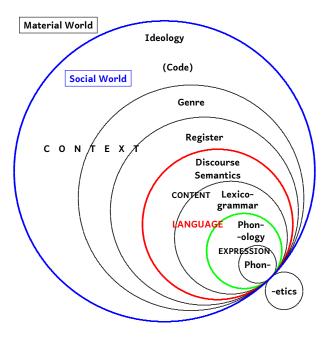
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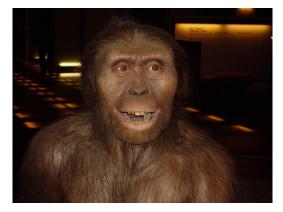
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Ideology is historically conditioned



Source: Wikipedia / Licence: CC by SA 2.0

It's 3.2 million years ago. You're an *Australopithecus afarensis*. What is thinkable? What is doable?

$\varphi\omega\nu$

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Functional components of language and the type of structure associated with each (1)

unction of language	Examples	Structural type		
deational logical	—Chris said that Jane thought	linear		
	that Tom had claimed that Peter likes Mozart	("string"-like)		
experiential	—the dinosaurs died —an asteroid killed the dinosaurs	nuclear		
	—Peter likes Mozart —Sally's the cleverest girl in the class	("particle"- like)		
nterpersonal	— —he likes Mozart —he's, like, sooo totally into Mozart	prosodic		
	-I suspect he's possibly rather fond of Mozart, wouldn't you say?	("field"-like)		
extual	– —an asteroid killed the dinosaurs —they were killed by an asteroid	culminative		
	 —they were killed by one —it was an asteroid that killed them 	("wave"-like)		

$\varphi\omega\nu$

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Functional components of language and the type of structure associated with each (2)

Function of	language	Examples	Structural type	$\phi\omega\nu$
(natural logic)	modification, quotes/reports, subordination, coordination,	Chris said that Jane thought that Tom had claimed that Peter likes Mozart	linear ("string"-like)	Theoretical introduction (1) Outline
reflecting upon the world (experience) \longrightarrow	apposition, processes, par- ticipants, cir- cumstances	Pete like Moz	nuclear ("particle"- like)	From matter to meaning: language in the evolutionary order Signs and semiotic systems Dimensions in the Systemic Functional theory of language
	the world by with the other	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	prosodic	Manifestation Stratification Metafunction
people in it:		????????????????????????????????????	("field"-like)	Instantiation Rank Axis Delicacy Three kinds of phonetics Phonetics vs. phonology
creating rele theme-rhem information		they were killed by an ast eroid	culminative ("wave"-like)	1.19

(0/)11

Functions of language associated with changes in pitch (dt.: Tonhöhe)

in English: intonation (see Units 9-11)

logical	yes	e.g. ways of joining clauses together
experiential	no	
interpersonal	yes	e.g. what you feel and want
textual	yes	e.g. what is 'given' and what is 'new'?

in Chinese: lexical tone

experiential	yes	e.g. distinguishing between different concepts
		媽 mā 'Mutter'
		蔴 má 'Hanf'
		馬 mǎ 'Pferd'
		罵 mà 'fluchen'



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• Today's weather is an actual instance of the climate.

climate	weather
POTENTIAL	 ACTUAL
language	text



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- Today's weather is an actual instance of the climate.
- This text is an actual instance of the English language.

climate	weather
POTENTIAL	 ACTUAL
language	text

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- Today's weather is an actual instance of the climate.
- This text is an actual instance of the English language.
- The climate is the potential for weather.

climate	weather
POTENTIAL	 ACTUAL
language	text

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- Today's weather is an actual instance of the climate.
- This text is an actual instance of the English language.
- The climate is the potential for weather.
- The English language is the potential for English text(s).

climate	weather
POTENTIAL	 ACTUAL
language	text

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- Today's weather is an actual instance of the climate.
- This text is an actual instance of the English language.
- The climate is the potential for weather.
- The English language is the potential for English text(s).

climate	weather	
POTENTIAL	 ACTUAL	
language	text	

 There are intermediate degrees along the line between the potential and the actual.

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Rank: bigger units made up of smaller ones

The rank scale in grammar:

clause	an asteroid killed the dinosaurs							
group	an	asteroid	kill	ed	the dinosaurs			
word	an	asteroid	kill	ed	the	dinosaur	s	
morpheme	an	asteroid	kill	ed	the	dinosaur	s	



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There is a rank scale in phonology, too

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										Theoretical introduction (1)
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tone group	an æst a roid kild ða dain a so:z									Signs and semiotic systems
foot	_ ən	$\frac{\partial \mathbf{n}}{\partial \mathbf{n}} = \frac{\partial \mathbf{s} \mathbf{r}}{\partial \mathbf{s}} + \frac{\partial \mathbf{s} \mathbf{r}}{\partial \mathbf{s}} +$						Dimensions in the Systemic Functional theory of language		
syllable	ən	æst	ə	rɔɪd	kıld	ðə	daın	ə	sɔ:z	Manifestation Stratification
phoneme	ən	æst	ə	r ɔɪ d	kıld	ðə	d aı n	ə	s ɔ: z	Metafunction Instantiation
										Rank Axis
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Phonetics vs. phonology

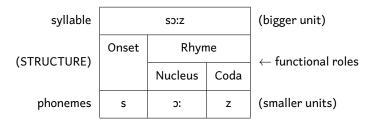
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A structure is a configuration of functional roles

A unit is "made up of" smaller units... but how?

syllable	sɔ:z			(bigger unit)	
(STRUCTURE)	Initial	Nucleus	Final	$\leftarrow functional\ roles$	
phonemes	S	יכ	z	(smaller units)	

or:



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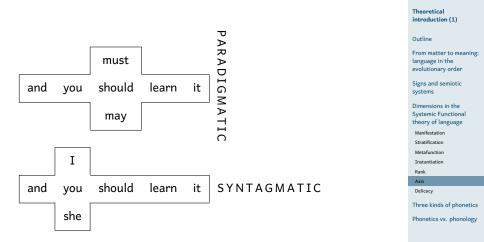
Axis: choice (paradigmatic) vs. chain (syntagmatic)

$\varphi\omega\nu$

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and	you	should	learn	it	From matter to meaning: language in the evolutionary order Signs and semiotic
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		may			Dimensions in the Systemic Functional theory of language
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	you	should	learn	it	Stratification
and					Metafunction
					Instantiation
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	cho				Delicacy
	she				Three kinds of phonetics

Axis: choice (paradigmatic) vs. chain (syntagmatic)



There is choice and chain in phonology, too



$\frac{f}{\theta}$	0:	$ \begin{array}{c} f \\ \theta \\ s \\ \int \\ v \\ \vartheta \\ z \end{array} $		Theoretical introduction (1) Outline From matter to meaning: language in the evolutionary order Signs and semiotic systems Dimensions in the
	5.			Systemic Functional theory of language
J		3	sɔ:z ʃɔ:z lɔ:z fɔ:θ fɔ:s fɔ:m fɔ:n fɔ:l (all exist)	Manifestation
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ð				Metafunction
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		n		Axis Delicacy
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h				Three kinds of phonetics
m				Phonetics vs. phonology
n				

Delicacy: 'broad' vs. 'narrow' transcriptions

A 'broad' (less delicate) transcription, making only the minimum necessary number of distinctions:

[Jed]

A 'narrow' (more delicate) transcription, making as many distinctions as possible:

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Articulatory, acoustic and auditory phonetics

(Fig. 5 here)

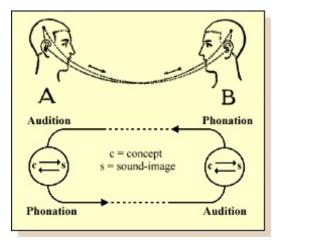


Figure: Producing, transmitting, and receiving signs

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Source: Wikipedia

Why do we need phonology? (1)

Phonology is the study of the sound patterns of a language. How can you tell that this is French just by listening to it?

Un petit d'un petit / S'étonne aux Halles / Un petit d'un petit / À degrés te fallent / Indolent qui ne sort cesse / Indolent qui ne se mène / Qu'importe un petit / Tout gai de Reguennes?

from the mediaeval manuscript "Mots d'heures: gousses, rames".

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Why do we need phonology? (2)

Now compare this strangely similar English poem. How can you tell it is English, just by listening to it? (What about the rhythm?)

Humpty Dumpty / sat on a wall / Humpty Dumpty / had a great fall / And all the King's horses / and all the King's men / Couldn't put Humpty / together again.

source: the traditional collection "Mother Goose Rhymes"

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Why do we need phonetics?

1)

Spelling is not a good guide to pronunciation:

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.

2)

What do British or Americans think when they hear your accent?

HOMEWORK: Read the whole of the above poem (modified from http://tinyurl.com/6y2zgw7) and be prepared to read it aloud next week. See the Worksheet for Unit 1 – the last page of the part of the Course Notes you can find here: http://www.spence.saar.de/courses/phonetics/ coursenotes201602/fascicles/fascicle 01.pdf



Theoretical introduction (1)

Outline

From matter to meaning: language in the evolutionary order

Signs and semiotic systems

Dimensions in the Systemic Functional theory of language

Manifestation

Stratification

Metafunction

Instantiation

Rank

Axis

Delicacy

Three kinds of phonetics