# 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

12 / 13 brumaire de l'année CCXXX de la République

02 / 03 November 2021



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From matter to meaning: language in the evolutionary order

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Phonetics vs. phonology

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## The place of language in the evolutionary order of nature:

ullet matter + life o function



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## The place of language in the evolutionary order of nature:

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

Gebrauchswert

Tauschwert



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## The place of language in the evolutionary order of nature:

• 
$$matter + life \rightarrow function$$

$$\textbf{life} + \textbf{society} \rightarrow \textit{value} \overset{\textit{Gebrauchswert}}{\downarrow}_{\textit{Tauschwert}}$$

 $society + language \rightarrow meaning$ 



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## The place of language in the evolutionary order of nature:

- ullet matter + life o function
- society + language o meaning
  - [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  $\rightarrow$  function
- Gehrauchswert life + society  $\rightarrow$  value Tauschwert
- $society + language \rightarrow meaning$ 
  - [before there is grammar:]
  - sounds 'standing for' meanings → words
  - [once there is grammar:]
  - sounds 'stand for' words



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- $society + language \rightarrow meaning$ 
  - [before there is grammar:]
  - sounds 'standing for' meanings → 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:

- ullet matter + life o function
- $\textbf{life} + \textbf{society} \rightarrow \textit{value} \overset{\textit{Gebrauchswert}}{\downarrow} \\ \begin{matrix} & \downarrow \\ & Tauschwert \end{matrix}$
- ullet 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
  - thus, adult human language has three 'levels' or 'strata':



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  - [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
  - ... stood for by wordings



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## The place of language in the evolutionary order of nature:

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- ullet 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
  - thus, adult human language has three 'levels' or 'strata':
  - meanings
  - ... stood for by wordings
  - ... stood for by **sound(ing)s**



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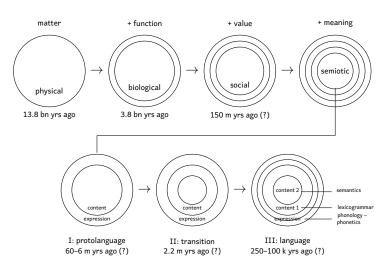


Figure: From matter to meaning (after C. M. I. M. Matthiessen)



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## Signs and semiotic systems

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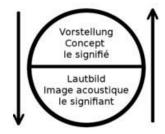


Figure: The sign function (Saussure)

φων

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Phonetics vs. phonology

Source: Wikipedia



(Fig. 3 here)

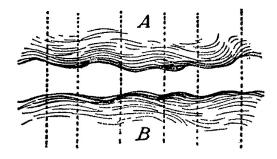


Figure: Without language, thought and sound are indefinite and indistinct

Source: Wikipedia

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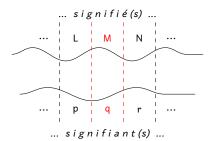
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## ... 'l'arbitraire du signe' ... 'valeur' ...

φων

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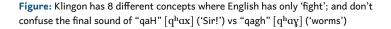
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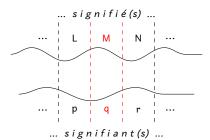
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## ... 'l'arbitraire du signe' ... 'valeur' ...

φων

• 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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### 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

 $\verb|https://www.youtube.com/watch?v=fRzRbohQ5Zs|\\$ 

https://www.youtube.com/watch?v=Il-yoFGogyA

 $\verb|https://www.youtube.com/watch?v=dmrje1cd90o|\\$ 

https://www.youtube.com/watch?v=tzGDio2ARPw



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## Dimensions in the Systemic Functional theory of language

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:



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The theory of language adopted in this course is Systemic Functional

describing language, the most important of which are described here:

**1** Manifestation (how language appears ['manifests itself'] in the world)

Linguistics (SFL). The theory provides a number of dimensions for

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- Manifestation (how language appears ['manifests itself'] in the world)
- Stratification (levels of 'something standing for something else')

determining different kinds of structures)

The theory of language adopted in this course is Systemic Functional

describing language, the most important of which are described here:

**Metafunction** (different 'functional components' of meaning,

Manifestation (how language appears ['manifests itself'] in the world) **Stratification** (levels of 'something standing for something else')

**Linguistics (SFL)**. The theory provides a number of dimensions for



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- Manifestation (how language appears ['manifests itself'] in the world)
- **2 Stratification** (levels of 'something standing for something else')
- Metafunction (different 'functional components' of meaning, determining different kinds of structures)
- 4 Instantiation (of the potential by the actual)



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- Manifestation (how language appears ['manifests itself'] in the world)
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- Metafunction (different 'functional components' of meaning, determining different kinds of structures)
- 4 Instantiation (of the potential by the actual)
- **6 Rank** (bigger units made up of smaller ones)



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- Metafunction (different 'functional components' of meaning, determining different kinds of structures)
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- **5** Rank (bigger units made up of smaller ones)
- 6 Axis (choice vs. chain)



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- **5** Rank (bigger units made up of smaller ones)
- 6 Axis (choice vs. chain)
- Delicacy ('broad' vs. 'narrow' descriptions)

### Three possible manifestations of language

possible ways in which it can 'manifest itself':

sound (pronunciation) ... from the very beginning

At the point where language interfaces with physical reality, there are three



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### Three possible manifestations of language



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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.

### Three possible manifestations of language



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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?)

words and sentences?)



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Phonetics vs. phonology

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

Phonology (are those the kinds of sound patterns you find in English)

of context?)

words and sentences?)

sounds you'd hear in English?)

Lexicogrammar (what do the words and sentences mean... regardless

Phonology (are those the kinds of sound patterns you find in English)

Phonetics (are those human sounds? AND: are those the kinds of



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context?)

of context?)

words and sentences?)



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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

Lexicogrammar (what do the words and sentences mean... regardless

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



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Phonetics vs. phonology

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Phonetics (are those human sounds? AND: are those the kinds of

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



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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?)
- 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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- (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?)
- Lexicogrammar (what do the words and sentences mean... regardless of 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?)
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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)

- "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?)
- 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?)
- (Material reality: Bipedal apes making noises with their faces)



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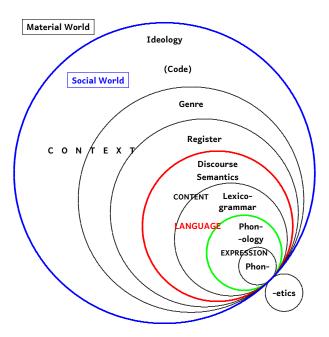
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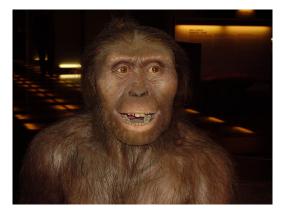
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### Ideology is historically conditioned



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?



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



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Function of language		unction of language Examples		Theoretical	
(natural logic)  reflecting upon the	modification, quotes/reports, subordination, coordination, apposition,	Chris said that Jane thought that Tom had claimed that Peter likes Mozart	linear ("string"-like)	introduction (1)  Outline  From matter to meaning: language in the evolutionary order  Signs and semiotic systems	
world  (experience)	processes, par- ticipants, circum- stances	Pete like Moz	nuclear ("particle"-like)	Dimensions in the Systemic Functional theory of language Manifestation Stratification	
teracting wit	the world by in- h the other peo- ity, negation, at-	??????????????????????????????????????	prosodic ("field"-like)	Metafunction Instantiation Rank Axis Delicacy Three kinds of phonetics	
creating releventheme-rheme	structure,	they were killed by an <b>ast</b> eroid	culminative ("wave"-like)	Phonetics vs. phonology	

#### 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.





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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.

### Rank: bigger units made up of smaller ones

The rank scale in grammar:

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



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### There is a rank scale in phonology, too



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Phonetics vs. phonology

tone group	, ən <b>æst</b> ə rɔɪd <b>kɪld</b> ðə <b>daɪn</b> ə sɔ:z									
foot	on <b>æst</b> ə rɔɪd			kıld	ðə	daıı	<b>n</b> ə	SDIZ		
syllable	ən	æst	ə	rɔɪd	kıld	ðə	daɪn	ə	so:z	
phoneme	ən	æst	ə	r oı d	kıld	ðэ	d aɪ n	ə	s ɔː z	
					•				•	

an æst a roid kild ða dain a sorz

### A structure is a configuration of functional roles

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

syllable	SD:Z					
(STRUCTURE)	Initial	Nucleus	Final			
phonemes	s	):	z			

(bigger unit)

 $\leftarrow$  functional role

(smaller units)

or:

syllable	sɔ:z				
(STRUCTURE)	Onset Rhyme				
(STRUCTURE)		Nucleus	Coda		
phonemes	s	2:	z		

(bigger unit)

 $\leftarrow \mathsf{functional}\;\mathsf{roles}$ 

(smaller units)



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



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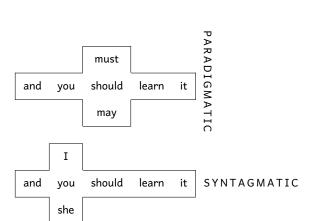
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### Axis: choice (paradigmatic) vs. chain (syntagmatic)





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### There is choice and chain in phonology, too

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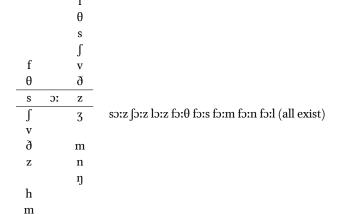
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## Delicacy: 'broad' vs. 'narrow' transcriptions



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Signs and semiotic systems

Dimensions in the Systemic Functional theory of language

Manifestation

Stratification Metafunction

Instantiation

nstantiation

Rank

Axis Delicacy

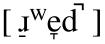
Three kinds of phonetics

Phonetics vs. phonology

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

[ sed ]

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



### Articulatory, acoustic and auditory phonetics

(Fig. 5 here)

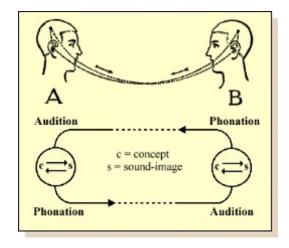


Figure: Producing, transmitting, and receiving signs



Theoretical introduction (1)

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### Why do we need phonology? (1)



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netics vs. phonology

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".

### Why do we need phonology? (2)



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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"

## 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



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