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

29 vendémiaire / 1^{er} brumaire, an CCXXVIII de la République 21 / 23 October 2019



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The place of language in the evolutionary order of nature:

• matter + life \rightarrow function



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- life + society o value

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- ullet society + language o meaning



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



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• $matter + life \rightarrow function$

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- [before there is grammar:]
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- [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:

- matter + life \rightarrow function
- $\textbf{life} + \textbf{society} \rightarrow \textit{value} \overset{\textit{Gebrauchswert}}{\downarrow}_{\textit{Tauschwert}}$
- ullet society + language o 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
 - 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 \rightarrow function
- life + society \rightarrow value \downarrow Tauschwert
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 - ... 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:

- matter + life → function
- Gebrauchswert life + society \rightarrow value
- $society + language \rightarrow meaning$
 - [before there is grammar:]
 - sounds 'standing for' meanings → words
 - [once there is grammar:]
 - sounds 'stand for' words
 - ... and words in structures 'stand for' meanings
 - thus, adult human language has three 'levels' or 'strata':
 - meanings
 - ... stood for by wordings
 - ... stood for by sound(ing)s

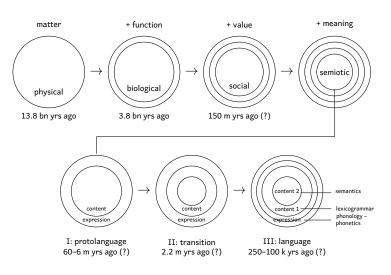


Figure: From matter to meaning (after C. M. I. M. Matthiessen)



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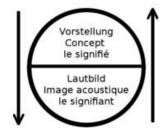


Figure: The sign function (Saussure)

Source: Wikipedia



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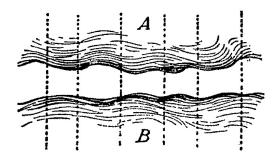
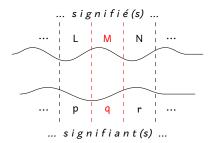


Figure: Without language, thought and sound are indefinite and indistinct

Source: Wikipedia

... '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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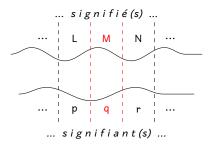
Phonetics vs. phonology



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')

... '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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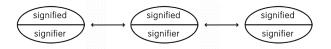
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Three kinds of phonetics

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 \leftarrow 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

https://www.youtube.com/watch?v=dmrjelcd90o

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



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- 2 Stratification (levels of 'something standing for something else')



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Phonetics vs. phonology

- 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)

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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)
- **5** Rank (bigger units made up of smaller ones)



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- 2 **Stratification** (levels of 'something standing for something else')
- **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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- 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)
- 6 Axis (choice vs. chain)
- Delicacy ('broad' vs. 'narrow' descriptions)

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

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?)



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Phonetics vs. phonology

 Phonology (are those the kinds of sound patterns you find in English words and sentences?)
 Phonotics (and those hypers are und? AND, and those the kinds

 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?)



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- 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?)
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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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- (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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- (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.")
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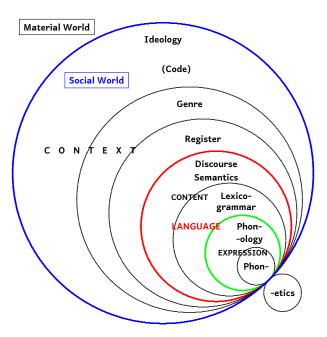
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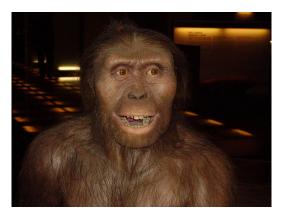
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Phonetics vs. phonology

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

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



Function of language	nguage Examples		Theoretical
→ modification, quotes/reports, subordination, coordination, reflecting upon the	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
world processes, participants, circumstances	Pete like Moz	nuclear ("particle"-like)	Systems Dimensions in the Systemic Functional theory of language Manifestation Stratification
acting upon the world by in- teracting with the other peo- ple in it: mood, modality, negation, attitude,	??????????????????????????????????????	prosodic ("field"-like)	Metafunction Instantiation Rank Axis Delicacy Three kinds of phonetics
creating relevance: theme-rheme structure, information structure,	they were killed by an asteroid	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.
- 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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- 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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Phonetics vs. phonology

- 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		asteroid killed		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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tone group	, ən æst ə rɔɪd kɪld ðə daɪn ə sɔ:z								
foot	_^ ən	æst ə rɔɪd			kıld ðə		daın ə sə:z		SOIZ
syllable	ən	æst	ә	rɔɪd	kıld	ðə	daın	ə	sɔ:z
phoneme	ən	æst	ә	r oı d	kıld	ðэ	d aɪ n	Ð	s o: z

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	э:	z	(smaller units)

or:

syllable		sɔ:z	(bigger unit)	
(STRUCTURE)	Onset	Rhyn	ne	← functional roles
(STRUCTURE)		Nucleus	Coda	~ Tunctional Toles
phonemes	S):	z	(smaller units)



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



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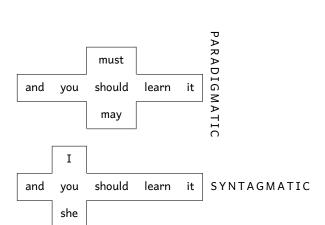
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Axis: choice (paradigmatic) vs. chain (syntagmatic)





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There is choice and chain in phonology, too



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		f	
		θ	
		S	
		ſ	
f		v	
θ		ð	
S	ıc	Z	•
\int		3	so:z ʃɔ:z lɔ:z fɔ:θ fɔ:s fɔ:m fɔ:l (all ex
v			
ð		m	
\mathbf{z}		n	
		ŋ	
h			
m			
n			

Delicacy: 'broad' vs. 'narrow' transcriptions

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Phonetics vs. phonology

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

[sed]

 $\ensuremath{\mathsf{A}}$ 'narrow' (more delicate) transcription, making as many distinctions as possible:

 $[\underline{\mathbf{i}}^{\mathbf{w}}\mathbf{e}\mathbf{d}]$

Articulatory, acoustic and auditory phonetics

(Fig. 5 here)

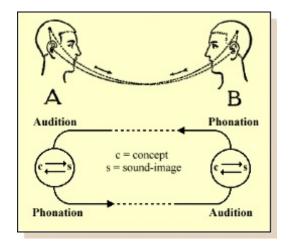


Figure: Producing, transmitting, and receiving signs



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Why do we need phonology? (1)



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

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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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anatica va nhanalami

English, just by listening to it? (What about the rhythm?)

Now compare this strangely similar English poem. How can you tell it is

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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.
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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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