

LECTURE 1

- The course
- Linguistics
- Language

INTRODUCTION TO THE COURSE

- goals
- textbook
- teaching plan
- assessment
- can do and can not do

GOALS OF THIS COURSE

- This is an introductory course to linguistics. [first course]
- This course has three major goals.
- 1. providing you an opportunity to learn about topics in the field of linguistics (a more specific goal)
- topics about structure, meaning, use, acquisition of language and its relations to brain, culture, socie ty
- basic concepts
- influential theories
- fundamental questions

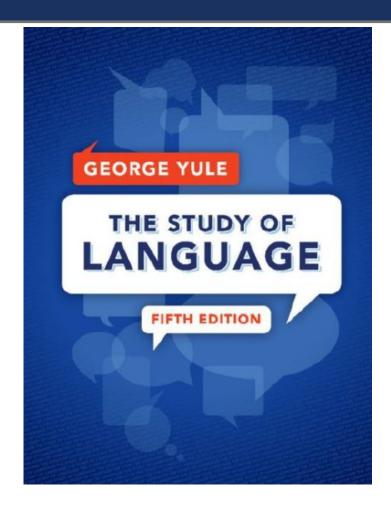
General understanding of linguistics

- 2. illustrating how scientists go about studying language (a more general goal)
- 3. motivating you to do linguistics (an optional goal)

passion

Ways, approaches, techniques, paradigms used to study language

TEXTBOOK



- Introductory
- No requirement for prior knowledge
- Comprehensive
- Reading online

TEACHING PLAN

- Origin and features of language
- 1 The origins of language
- 2 Animals and human language
- Structure and meaning of language
- 3 The sounds of language
- 4 The sound patterns of language
- 5 Word formation
- 6 Morphology
- 7 Grammar
- 8 Syntax
- 9 Semantics

Use of language

- 10 Pragmatics
- 11 Discourse analysis
- Acquisition of language
- 13 First language acquisition
- 14 Second language acquisition/learning
- Relations with brain, society and culture
- 12 Language and the brain
- 18 Language and regional variation
- 19 Language and social variation
- 20 Language and culture

COURSE ASSESSMENT

- Grades in this course will be based on:
- Class participation (10%): your attendance, your contribution to discussions on class, etc.
- A midterm (25%): approximately 5-10 short essay questions
- A final (25%): approximately 5-10 short essay questions
- A class project (40%): This is an opportunity for you to explore an interesting topic/question of your choice that is relevant to the course and about which you would like to learn more.
- start as early as possible
- schedule a meeting with me/my TA at any period of the project: proposal, midway report, final report, etc.
- due at the end of the semester
- a report: a 5 page paper (at least)
- a poster/oral presentation

COURSE PROJECT SAMPLES

- Vocabulary learning during treadmill running
- First language reading education and second language proficiency
- Patterns in the use of fractions and decimals: An Al Perspective
- Use of the word far-right in NOW corpus
- Machine learning and poetry

WHAT YOU CAN DO AND CAN NOT DO

- 1. Sit and answer my question.
- 2. Stop me by raising your hand if you have any question.
- 3. Never copy others' work.

INTRODUCTION TO LINGUISTICS

- why linguistics?
- what is linguistics?
- history of linguistics
- questions addressed in linguistics

WHY LINGUISTICS? WHY STUDYING LANGUAGE?

- e.
- communicating
- doing things
- loving words
- what if no longer using language
- Language is unique.

- Language plays a central role in human's lif Language is more complex than it appears to be.
 - ease of acquiring and using a language
 - using language effortlessly =/= language is simple
 - multiplicity of languages: 6900+ languages,
 - 234 in Europe, 2,322 in Asia, 2,110 in Afric a, 993 in the Americas, and 1,250 in the Pacific
 - why?
 - variation of language: constantly changing
 - flexibility/confusion of language

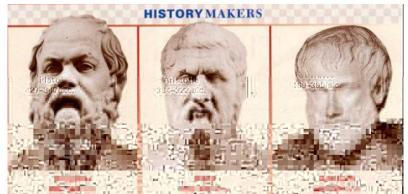
So the study of language (linguistics) is essential to understand human beings.

WHAT IS LINGUISTICS?

- Linguistics is the scientific study of language / linguistics is a language science.
- Two models of science
- the inductivist model: objective observations → facts obtained from observation
 s → laws and theories derived from facts (by the process of induction)
- the falsificationist model: hypothesis formulation \rightarrow data collection \rightarrow hypothes is testing (to see if it is false)
- Linguistics fit the models and is thus a science.

HISTORY OF LINGUISTICS

- Greek grammatical tradition: Socrates, Plato, Aristotle
- the origin of language, parts of speech (grammatical categories), and the relation between language and thought, …
- the relationship between words and their meanings: natural or conventional?



HISTORY OF LINGUISTICS

- Modern linguistics
- beginning to develop in the early 19th century
- focusing mainly on the similarities among different languages and reconstructing the ancestors
- ancient German, ancient Latin, Proto-Indo-European
- Ferdinand de Saussure (1857-1913)
- the starting point of modern linguistics
- language is a system of signs
- signifier (material form of a word)
- signified (mental concept)
- distinction between *langue* and *parole*



- langue: the collective language system (language as a system)
- *parole*: the individual linguistic act (language in use)

HISTORY OF LINGUISTICS

- Leonard Bloomfield (1887-1949)
- a more rigorous science
- Language (1933)

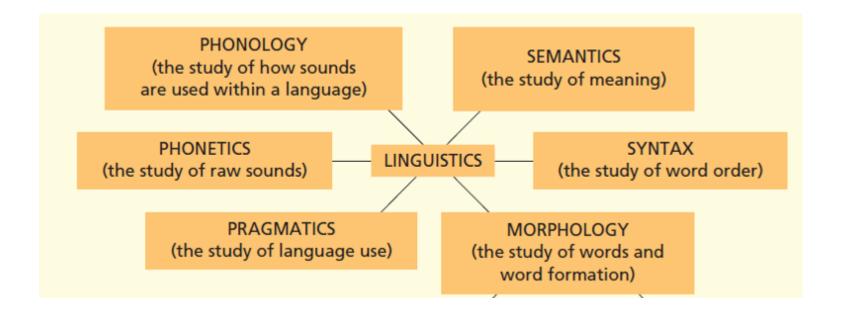


- further developed the methodologies of linguistic data collection and analysis
- Noam Chomsky (1928-)
- Aspects of the Theory of Syntax (196!
- Language is innate.
- competence vs performance
- Today's linguistics
- a wide range of approaches, methodologies
- an umbrella term



BRANCHES OF LINGUISTICS

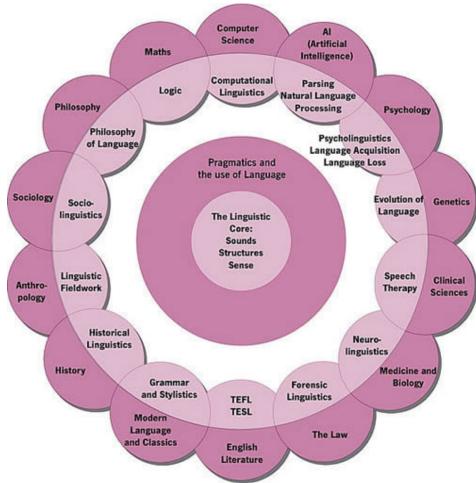
- Basic sub-fields of linguistics
- Structure of language
- Phonetics
- Phonology
- Morphology
- Syntax
- Meaning
- Semantics
- Use of language
- Pragmatics



BRANCHES OF LINGUISTICS

- Many other disciplines also have enormous interests in language.
- naming some disciplines?
- Overlaps between linguistics and other disciplines.
- Interdisciplinary subjects





INTERDISCIPLINARY SUBJECTS

- Sociolinguistics, sociology of language (language and society)
- Psycholinguistics (psychological process of producing and interpreting language)
- Neurolinguistics (language and brain)
- Pathological linguistics (language disorder such as aphasia(失语症))
- Anthropological linguistics
- Computational linguistics
- Cognitive linguistics
- Contrastive linguistics
- Machine translation
- • •

QUESTIONS

- The primary goal of linguistics is to understand the nature of language in general by asking questions such as:
- What distinguishes human language from other animal/artificial communication systems? Or what distinguishes one human language from another?
- What features are common to all human languages?
- How is language related to other types of human behavior (e.g. thinking)? (color, space, time, number)
- How and why do languages change?
- How does language reflect society and culture?
- How do children acquire language(s)?
- • •

INTRODUCTION TO LANGUAGE

- common sense views of language
- views of language held by scientists

WHAT IS LANGUAGE?

- The object of linguistic inquiry is language, but what is language?
- What do you think language is?
- a bunch of words, either spoken or written
- a tool of communication
- a way of expression
- a vehicle for thought
- • •
- Scientific inquiry of language requires a step beyond our common sense.

WHAT IS NOT LANGUAGE?

- Language is distinct from writing, speech, communication and thought.
- Writing and speech
- modes for transmitting linguistic information / physical forms of language
- Language is just one of the communication systems and can be used for other purposes (e.g., used aesthetically)
- Language is different from thoughts.
- Infants and nonhuman animals
- bilinguals, trilinguals, ··· VS monolinguals

WHAT IT MEANS TO KNOW A LANGUAGE?

- To know what language is, scientists start out by asking what it means to know a language?
- implicit language knowledge
- a phenomenon: creativity/infiniteness of language
- novel sentences
- new words
- rewashable, unsystematic, babysit, …
- sentences of infinite length
- This is the dog that worried the cat that killed the rat that ate the malt that lay in the house...
- What does language's creativity/infiniteness mean?
- a mental system of rules and principles that allows us to speak (or write or sign) and und erstand

- 1. knowledge of sounds and sour d patterns
- what sounds are in that language and what sounds are not, to know which sound starts a word and which ends a word, …
- phonetics, phonology

(1) Classify the following words into three categories: English words, words that are not English but could be, or impossible English words.

	English word	Possible word	Impossible
bnick			
brick			
blick			
btick			
botick			
trick			
tlick			
tnick			
nbid			
glind			
mgind			

- 2. knowledge of word structure and formation
- what words are in that Ian guage and what words are n ot,
- what words are well-forme d and what are ill-formed,

III-formed words	Well-formed words
carelessty	
kindty	
goed	
roomclass	
lordland	

- • •
- morphology

- (3) Fill in the blanks with forms of the nonsense words given.
- a. I have one wug, and you have two _____.
- b. My car is old and grish. It drives really _____.
- c. I like to tunick. I am _____ right now, and I _____ yesterday, too.

- 3. knowledge of the structure of phrases and sentences
- what phrases/sentences are well f ormed in that language and what second cases of the sentences below in one of three categories: ences are ill formed.

• • •

syntax

	Good	Nonsense	Impossible
What house did you wonder who built?			
Colorless green ideas sleep furiously.			
Ideas colorless sleep green furiously.			
So, like, are you IMing him or what?			
Hamburgers some John devoured quickly they.			
Mary thinks I don't like herself.			
Happy paperclips usually write doughnuts out of the sky.			
There's many people I wanna talk to.			
The horse that is racing past the barn fell.			
The horse raced past the barn fell.			
Run children the school of out.			

- 4. knowledge of the relationship between form and meaning, between meanings
- semantics

- Relationship in these pairs of sentences
- The 11th G20 summit was held in Hangzhou.
- The 11th G20 summit was held in China.
- The 11th G20 summit was not held in Hangzhou.
- The 11th G20 summit was held in China.
- John no longer writes to Jane.
- John once wrote to Jane.

- In a sense, one of linguistics' tasks is to discover precisely speakers' language knowledge.
- Other tasks include
- describing and explaining how speakers use this knowledge to speak/write
- pragmatics, …
- describing and explaining the acquisition and development of this knowledge
- language acquisition, …
- describing and explaining its relation to brain, society and culture
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DIFFERENT VIEWS OF LANGUAGE

- a collection of mental representations of rules
- a set of psychological objects
- a mental organ
- a system of conventional symbols
- each symbol has two parts: physical form and mental concept
- symbols are conventional, arbitrary
- values of the symbols are determined by their position in relation to all the other symbols in the language system
- e.g., "send" vs " 送"
- a social activity
- interaction between language users
- ...