

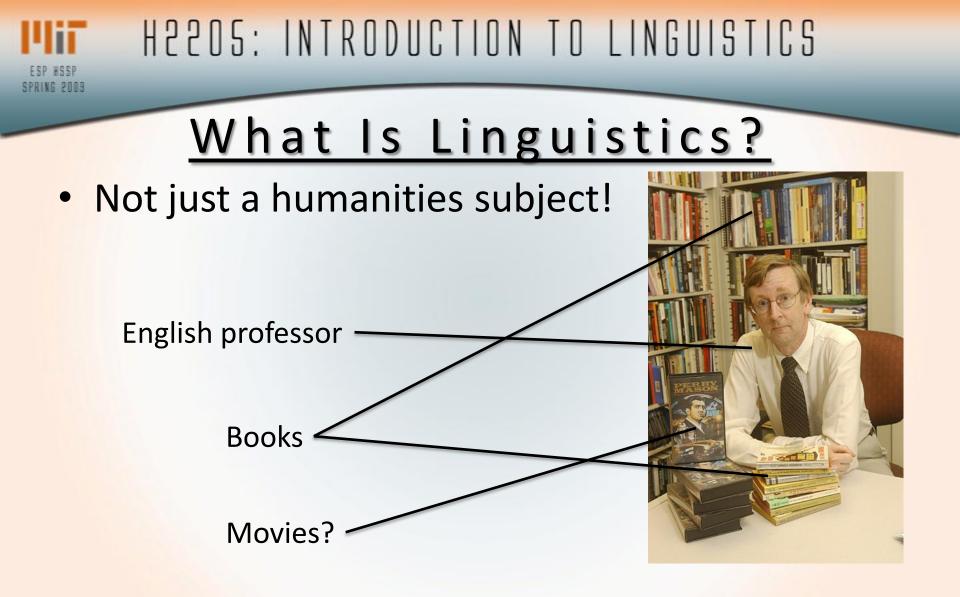
Language

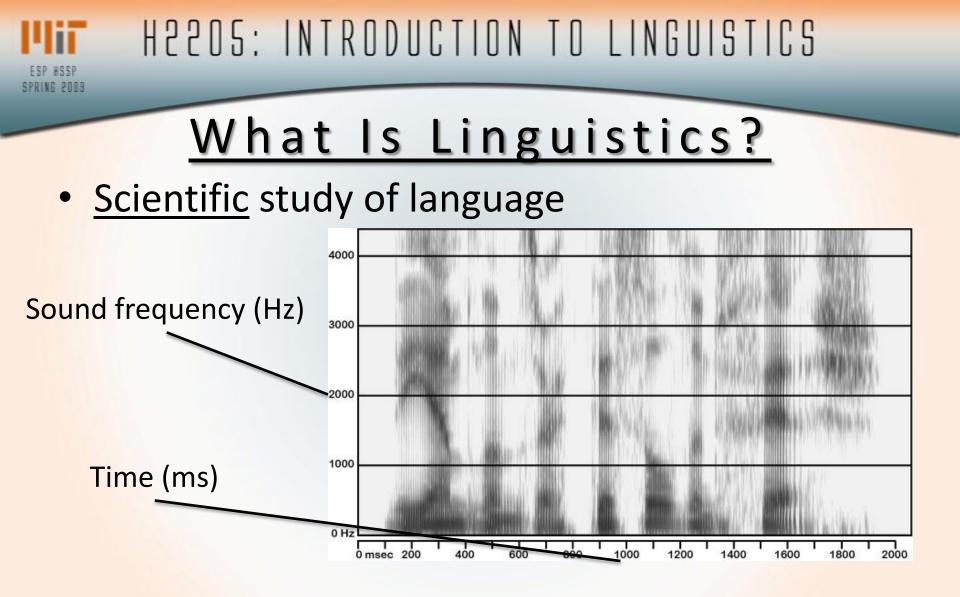
The gift of language is the single human trait that marks us all genetically, setting us apart from the rest of life.

-LEWIS THOMAS, The Lives of a Cell



- 8 classes
- 6 <u>optional</u> problem sets (psets)
- Solutions up by Saturday afternoon





What Is Linguistics?

- Morphology analysis of word structure
- Phonetics sounds of languages
- Phonology function and patterning of sounds
- Syntax analysis of sentence structure
- Semantics analysis of meaning
- Historical linguistics study of language change

Morphology

Compounds:

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"Bat" + "man" = "Batman"







<u>Morphology</u>

• Inflection:

• "I <u>am</u>."

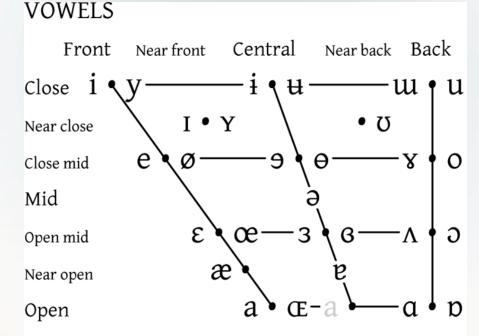
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- "You <u>are</u>."
- "He/she/it <u>is</u>."

<u>Phonetics</u>

Vowels:

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Vowels at right & left of bullets are rounded & unrounded.

<u>Phonetics</u>

Consonants:

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THE INTERNATIONAL PHONETIC ALPHABET (2005)

CONSONANTS (PULMONIC)

	Bilabial	Labio- dental	Dental	1/10/00/01	Post- alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngea	l Epi- glottal	Glottal
Nasal	m	ŋ	n			η	n	ŋ	N			
Plosive	рb	фф		t d		td	сĵ	k g	qg		2	?
Fricative	φβ	f v	θð	S Z	∫ 3	ş ζ	çj	хү	χ	ħ s	H C	h ĥ
Approximant		υ		J		ન	j	щ	<u> </u>		Ť	11 11
Trill	В			r					R		R	
Tap, Flap		V		ſ		r						
Lateral fricative				ŧβ		2	x	Ł				-
Lateral approximant				1		l	λ	L				
Lateral flap				J		J						

Where symbols appear in pairs, the one to the right represents a modally voiced consonant, except for murmured h. Shaded areas denote articulations judged to be impossible. Light grey letters are unofficial extensions of the IPA.

<u>Phonetics</u>

• Speech:

• Tone: *"You went home." "You went home?"*

• Stress:

"I object." "This object..."

<u>Phonology</u>

Minimal pairs:

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- Difference between "bat" and "pat"
- One slight change = totally different word

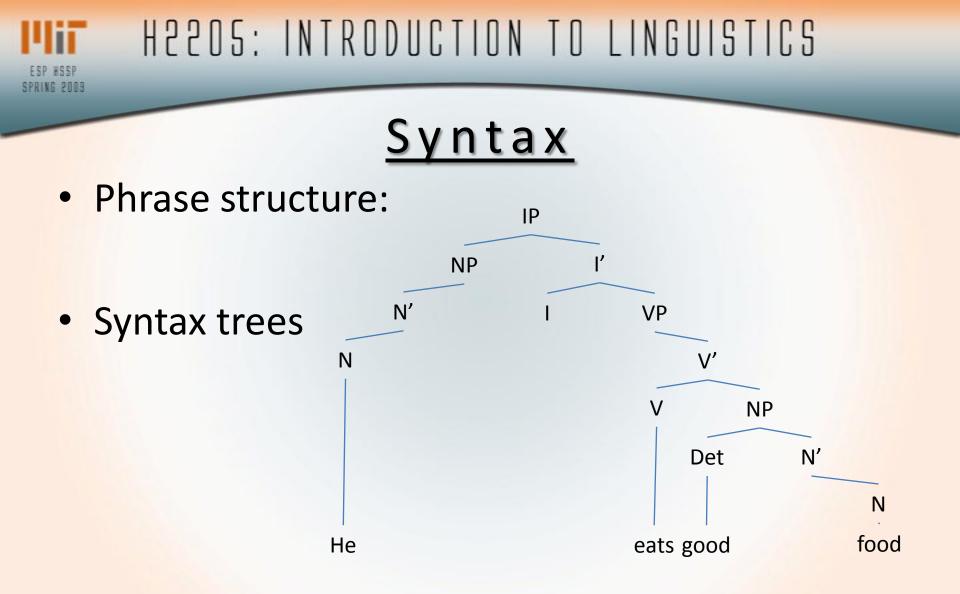
<u>Phonology</u>

- Variation:
- Vowels: "Not"
- Consonants: "Butter"

<u>Syntax</u>

• Parts of speech:

 Nouns, verbs, adjectives, adverbs, conjunctions, prepositions, interjections, etc.



<u>Semantics</u>

• Ambiguity:

- "Wealthy <u>men</u> and women"
- "Wealthy men and women"

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Word change:

- ganra \rightarrow gandra \rightarrow gender
- slæpde \rightarrow slæpte \rightarrow slept

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• Grammar change:

- "He ne speketh nawt."
- "He does not speak."

What Do Linguists Do?

- Talk to people?
- Teach linguistics?

What Do Linguists Do?

- Help program machines to talk:
- <u>C-3PO?</u>
- <u>Repliee Q2</u>

What Do Linguists Do?

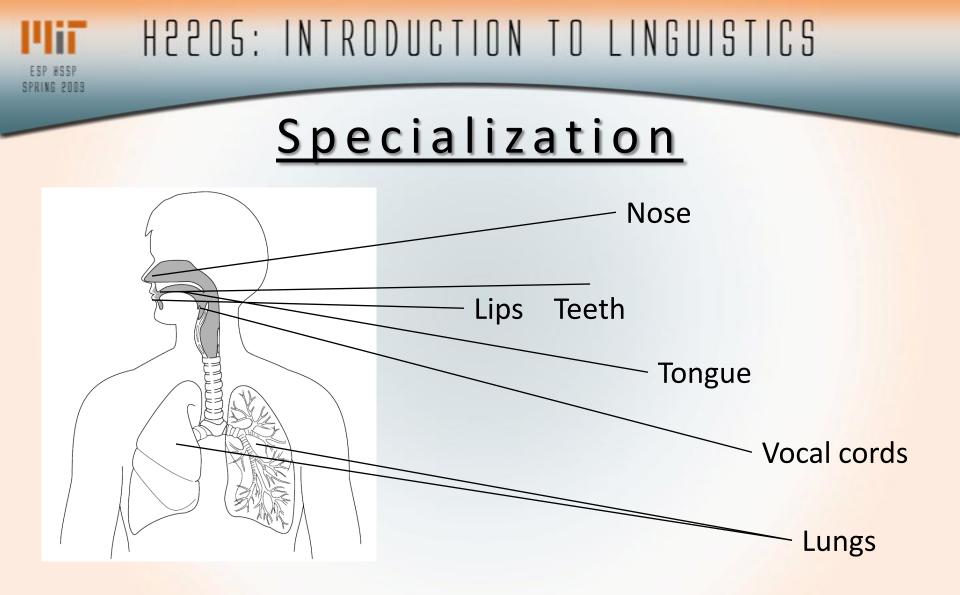
- Make connections between languages: Proto-Indo-European (PIE)
- Document language and languages

<u>Specialization</u>

Humans are specialized for language

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Some organs have vocal functionality



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Specialization

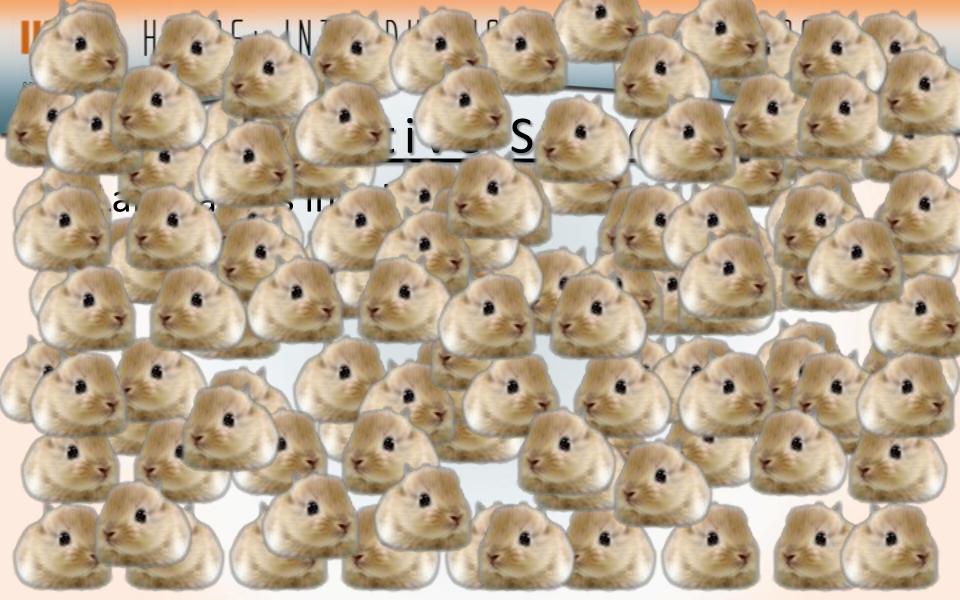
Organ	Vital function	Speech function		
Lips	to close the mouth	to articulate sounds		
Teeth	to break up food	to produce consonants		
Tongue	to taste and move food through the mouth	to produce and articulate consonants sounds		
Nose	to breath and smell	to produce nasal sounds		
Vocal cords	to seal passage to lungs	to produce voice and tone		
Lungs	to exchange CO_2 and H_2O	to supply air for sounds		

Specialization

- Not just specialized for sound production
- Sound perception

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 Cognitive abilities: word formation sentence formation sentence interpretation



Creative System

- Creativity involved
- Can create and understand the unheard of

 "My purple anteater walked his dog yesternight inside the chocolate cloud in the strawberry sky below my feetsies."

Creative System

Nouns as verbs

- "Put wine into <u>bottles.</u>"
- "<u>Bottle</u> the wine."

- Noun as a noun
- Noun as a verb

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What about words?

- Kreechure
- Trasklip
- Umdaugger

<u>Creative</u> System

What about these?

- Kzrsinger
- Shshlyam
- Qphmeoeo

Creative System

There are limitations...

- "Put the prisoner in prison."
- "*<u>Prison</u> the prisoner."

We have "imprison"

<u>Generality</u>

- All languages have a grammar
- Grammar is a mental system

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<u>Generality</u>

- Grammar defines rules
- Word order

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Word formation

<u>Generality</u>

"I can see two dogs."

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- "I see can two dogs."
- "I two can see dogs."

- Grammatical
- Ungrammatical
- Ungrammatical

<u>Parity</u>

All grammars are equal

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- <u>No</u> primitive languages
- Any language is sufficient for its people

<u>Parity</u>

- Hawaiian has small sound inventory
- English has a larger sound inventory
- English speakers can interpret more sounds?
- Hawaiian < English?

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- No!
- Hawaiian words are complex

- Hawaiian "Mele Kalikimaka"
- English "Merry Christmas"

7 syllables vs. 4 syllables

<u>Universality</u>

• Grammars are alike in basic ways

• "I eat food." (SVO)

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- "I food eat." (SOV)
- "Eat I food." (VSO)

Majority adopt SOV word order



<u>Mutability</u>

Grammars change over time

- Refer back to slide on historical linguistics
- "He ne speketh nawt"
- "He does not speak"

<u>Inaccessibility</u>

- Grammatical knowledge is subconscious
- Try explaining what's wrong below:

 "*Frightened dog this the cat that chased mouse a."

<u>Inaccessibility</u>

- What is the plural of *"meemeem"*?
- "meemeems"

- What is the plural of *"meemeet"*?
- "meemeets"

Take note of the pronunciation of the "s"

<u>Summary</u>

- Linguistics = study of language
- Humans specialized for language
- Language = creative system
- Generality, parity, universality, mutability, inaccessibility

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NT: Morphology

- Next time (NT):
- What could *"goldfishtank"* mean?
- "goldfish tank"?
- "gold fish-tank"?



LOTW: Old English

- "Language of the Week"
- Not LOTR (Lord of the Rings)

LOTW: Statistics

~0 speakers

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- ∞th largest by native speakers
- ~450 CE to ~1100 CE
- Official language in 0 countries

LOTW: Classification

- West-Germanic language
- Indo-European language family
- Anglo-Saxons runes (futhorc) / Latin alphabet
- Fusional
- SVO word order?

LOTW: History

- From Germanic tribes
- Influenced by Latin from Roman traders
- Germanic dialects dominated Brythonic languages
- Anglo-Saxons spoke Old English

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LOTW: Written Sample

Hwæt! wē Gār-Dena in geār-dagum beod-cyninga, brym gefrunon hu ða æþelingas ellen fremedon. Oft Scyld Scefing sceabena breatum, monegum mægbum, meodosetla ofteah, egsode eorl. Syððan ærest wearð feasceaft funden, he bæs frofre gebad, weox under wolcnum, weorðmyndum þah, oðþæt him æghwylc þara ymbsittendra ofer hronrade hyran scolde, gomban gyldan. Þæt wæs god cyning! -Bēowulf

Listen! We have heard of the glory of the Spear-Danes, of the kings of the people, in days of yore, [and] how those princes did deeds of glory. Often Scyld Scefing deprived armed bands of foes, many clans of meadbenches, [and] terrified warriors. Since he first was found helpless (he experienced comfort for that), he grew under the heavens, thrived with honors, until each of the nearby peoples over the sea were obliged to pay him tribute. That was a good king!

-Beowulf



Beowulf – The Telling of an Old Tale

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