01:615:201 Introduction to Linguistic Theory

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Morphology: The Words of Language

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The Words of Language

- In spoken language we don't pause between most words
- So when you hear a sentence in a language you don't know, you won't be able to tell where one word ends and the next begins
- Most English speakers can pick out all of the words in *Thecatsatonthemat* because they can identify all those words

The Words of Language

 These boundaries between words can be played with for humor, as in the credits for NPR's Car Talk:

- Copyeditor: Adeline Moore
- Pollution Control: Maury Missions
- Legal Firm: Dewey, Cheetham, and Howe

The Words of Language

- We all have a mental dictionary of all the words we know, which includes the following information:
 - Pronunciation
 - Meaning
 - Orthography (spelling)
 - Grammatical category

Content Words and Function Words

- Content words: the words that convey conceptual meaning (nouns, verbs, adjectives, etc.)
 - Open class: new types of content words can be added all the time
 - E.g. a new noun called a *flurg* would be fine
- **Function words**: the words that convey grammatical meaning (articles, prepositions, conjunctions, etc.)
 - Closed class: new function words are very rarely added to a language
 - English does not have a gender-neutral third person singular pronoun, and rather than adopt a new pronoun, many people use they instead of choosing between he and she.

Content Words and Function Words

- The brain treats content and function words differently
 - Some aphasics are unable to read the function words in and which but can read the content words inn and witch.
 - Content words may be inadvertently switched in speech, but there is no documentation of function words being switched in this way
 - Children often omit function words from their speech when learning their first language ("doggie barking")

Morphemes

- Morphology: the study of the structure of words and the rules for word formation
- Morpheme: the minimal units of meaning
 - Morphemes can be words on their own, and/or can often be combined with other morphemes to make words
 - E.g. the word *book* has one morpheme
 - E.g. the word *books* has two morphemes:

Morphemes

- Discreteness: In all languages, sounds combine to make morphemes, morphemes combine to make words, and words combine to make sentences
- Creativity: We can combine morphemes in new ways to create new words that can easily be understood
 - writable
 - rewritable
 - unrewritable

- Free morphemes can stand alone
 - E.g. *love* is a single morpheme that can be uttered with no other morphemes connected to it
- Bound morphemes cannot stand alone, and must be attached to other morphemes
 - E.g. *un* and *-ish* are bound morphemes because they cannot stand alone

- Prefixes: bound morphemes that attach to the beginning of a root
 - E.g. *un* as in *untie*
- Suffixes: bound morphemes that attach to the end of a root
 - E.g. -ness as in kindness

- Languages may differ in how they use affixation
 - What is a prefix in one language may be a suffix in another
 - Isthmus Zapotec plural prefix ka-
 - What is an affix in one language may not be expressed with affixation in another
 - English dance (N) and dance (V)
 - What is a separate word in one language may be an affix in another
 - Piro (Peru) has a suffix, -kaka, that means "cause to", thus cokoruhakaka means "cause to harpoon"

- Infixes: morphemes that are inserted <u>inside</u> a root
 - Bontoc (Phillippines):

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fikas "strong" fumikas "to be strong" kilad "red" kumilad "to be red"
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- Circumfixes: affixes that attach to both <u>the</u> beginning and the end of a root
 - Chickasaw (USA):

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• chokma "he is good" ikchokmo "he is not good"
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• lakna "it is yellow" iklakno "it is not yellow"

Roots and Stems

- Roots: the morpheme base upon which other morphemes are attached to create complex words: un-love-able
- Stems: once an affix has been attached to a root, the result is called a stem to which more morphemes may be attached: unlovable

Roots and Stems

- Bound roots: Roots that cannot stand alone and can only occur in combination with other morphemes
 - -ceive: receive, conceive, perceive, deceive
 - Ungainly (*gainly), discern (*cern), nonplussed (*plussed)
 - Huckleberry, <u>luke</u>warm, <u>cran</u>berry

- Derivational morphemes change the meaning and/ or part of speech of a root
 - Adding –un to the word do changes the meaning drastically
 - Adding –ish to the noun boy creates the adjective boyish
- Derivational morphemes carry semantic meaning and are like the affix version of content words

- When a new word is created through derivation, other possible derivations may be blocked
 - Communist exists, therefore we don't need
 Communite or Communian
- Some derivations trigger pronunciation changes, while others do not
 - specifi<u>c</u> → specifi<u>ci</u>ty and Elizab<u>et</u>h → Elizab<u>et</u>han
 vs.
 - ba<u>ke</u> → ba<u>ke</u> and wi<u>sh</u> → wi<u>shf</u>ul

- Inflectional morphemes have only grammatical function (similar to function words) and never change the part of speech of the root
 - waited, waits, waiting
- Inflectional morphemes are always suffixes in English and always follow any derivational morphemes
 - commit + ment can become commit + ment + s but not commit + s + ment

 Inflectional morphemes are productive, meaning they apply freely to almost any appropriate base

- Most nouns will take the inflectional suffix –s
 to make a plural noun
- Only some nouns will take the derivational suffix –ize to make a verb

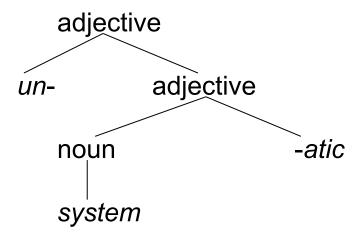
- Some languages use case morphology, where the grammatical relations of nouns are marked with inflectional morphemes
- In Russian, the sentence "Maxim defends Victor" can have a variety of word orders:

Maksim zašiščajet Viktora. Maksim Viktora zašiščajet. Viktora Maksim zašiščajet. Viktora zašiščajet Maksim.

 This is because the –a in Viktora marks the object of the sentence, regardless of the word order

Hierarchical Structure of Words

- Morphemes are added to a base in a fixed order which reflects the structure of a word
- unsystematic = un + system + atic



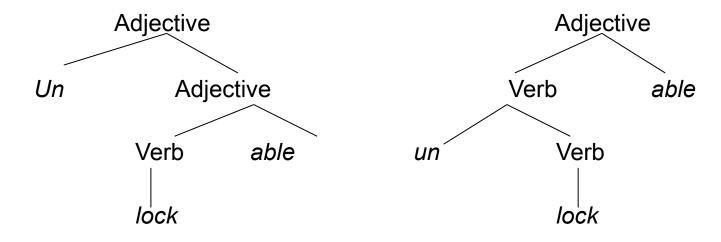
Hierarchical Structure of Words

- The example of unsystematic represents the application of two morphological rules:
 - Noun + -atic → Adjective
 - un- + Adjective → Adjective

 In the case of unsystematic, this is the only possible hierarchy, as *unsystem is not a word

Hierarchical Structure of Words

- The hierarchical structure of words can help disambiguate ambiguous words:
- unlockable could mean:
 - 1) "not able to be locked" or 2) "able to be unlocked"



Rule Productivity

Derivational affixes are productive to different extents:

- -able can be affixed to any verb to create an adjective
- un- is most productive for adjectives derived from verbs and words with polysyllabic bases
 - unsimplified, unenlightened, and unhappy, but not *unsad, *unbrave, or *untall

Rule Productivity

- Exceptions and Suppletions:
 - Not all words undergo regular morphological processes (e.g. feet, went, sing, children)
 - These words must be learned separately since rules don't apply to them
 - When new words enter the language, regular morphological rules generally apply to them
 - The plural of fax became faxes rather than faxen
 - Borrowed words may retain borrowed morphology
 - Latin datum and data (rather than *datums)

Lexical Gaps

- Lexical Gaps (Accidental Gaps): words that could be in a language but aren't
 - Some permissible sound sequences have no meaning (e.g. blick)
 - Some combinations of morphemes are never used (e.g. curiouser)

 Back-formations: new words can be created through misanalysis of morpheme boundaries

- pease → pea
- bikini → tankini
- editor \rightarrow edit
- television → televise

- Compounds: joining two or more words together to make a new word (e.g. landlord)
 - The rightmost word in a compound is the head, which determines its meaning and part of speech
 - Noun + adjective = adjective (headstrong)
 - The stress on English compounds falls on the first word
 - greenhouse vs. green house
 - Two-word compounds are the most common, but there may not be an upper limit
 - Dr. Seuss's "Tweetle beetle puddle paddle battle"

- The meaning of a compound is not always the sum of the meaning of its parts
 - Blackboard
 - Cathouse
 - Turncoat

 Compounding is a universal process for creating new words

 We can use our knowledge of morphemes and morphological rules to guess the meaning of words we don't know

 Our guesses may be wrong but they are based on morphological (mis)analysis

deciduous "able to

"able to make up one's mind"

bibliography

"holy geography"

gullible

"to do with sea birds"

Sign Language Morphology

 Like spoken languages, signs have parts of speech, roots and affixes, and morphemes that can be free, bound, derivational or inflectional

 Like spoken languages, sign languages have rules for combining morphemes to make complex signs

Sign Language Morphology

- Affixation can occur by adding another sign before or after the root sign
 - The negation suffix is a rapid turning over of the hand(s) after the root sign
- Sign languages can also allow the stem and the affixes to be signed simultaneously, an option not available in spoken languages

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nokali "my house"
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nokalimes "my houses"

mokali "your house"

ikali "his house"

nopelo "my dog"

mopelo "your dog"

mopelomes "your dogs"

 Look for recurring forms with recurring meanings to identify each morpheme

nokali "my house"

nokalimes "my houses"

mokali "your house"

ikali "his house"

nopelo "my dog"

mopelo "your dog"

nokali "my house"

nokalimes "my houses"

mokali "your house"

ikali "his house"

nopelo "my dog"

mopelo "your dog"

nokali "my house"

nokalimes "my houses"

mokali "your house"

ikali "his house"

nopelo "my dog"

mopelo "your dog"

nokali "my house"

nokalimes "my houses"

mokali "your house"

ikali "his house"

nopelo "my dog"

mopelo "your dog"

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kali "house"
pelo "dog"
no- "my"
mo- "your"
i- "his"
mes- "plural"
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