Morphological Typology

Language Types

Synthetic
- many inflections
- free word order

Analytical
- fixed word order
- little inflections

Inflectional
- hard to segment
- information in
one morphem > 1

Agglutinative:
- easy to segment
- form <-> meaning

Isolating:
- one word =
one morphem
- no inflections

English
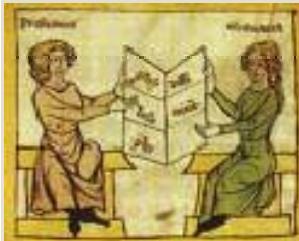
Roots and Stems

root	system	noun
stem	sytem + atic	+ suffix
stem	un + sytem + atic	+ prefix
stem	un + sytem + atic + al	+ suffix
word	un + sytem + atic + al + ly	+ suffix
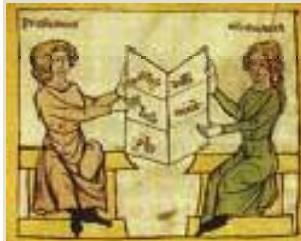
Morphological System

Morpheme

free

bound

closed

open

affix

root

conjunction (*and*)
preposition (*in*)
pronouns (*she*)
auxiliaries (*is*)
articles (*the*)

circumfixes

infixes

suffix

prefix

-mit
-ceive
-fer

derivational

Affixes

adjectives   *-ly*
adverbs   *-ist*
nouns   *-ment*
verbs   suffixes *-tion*

pre-
un-
con-
prefixes
dis-

Word Formation

inflectional

-s, 's, -ing,
-er, -est, -ed
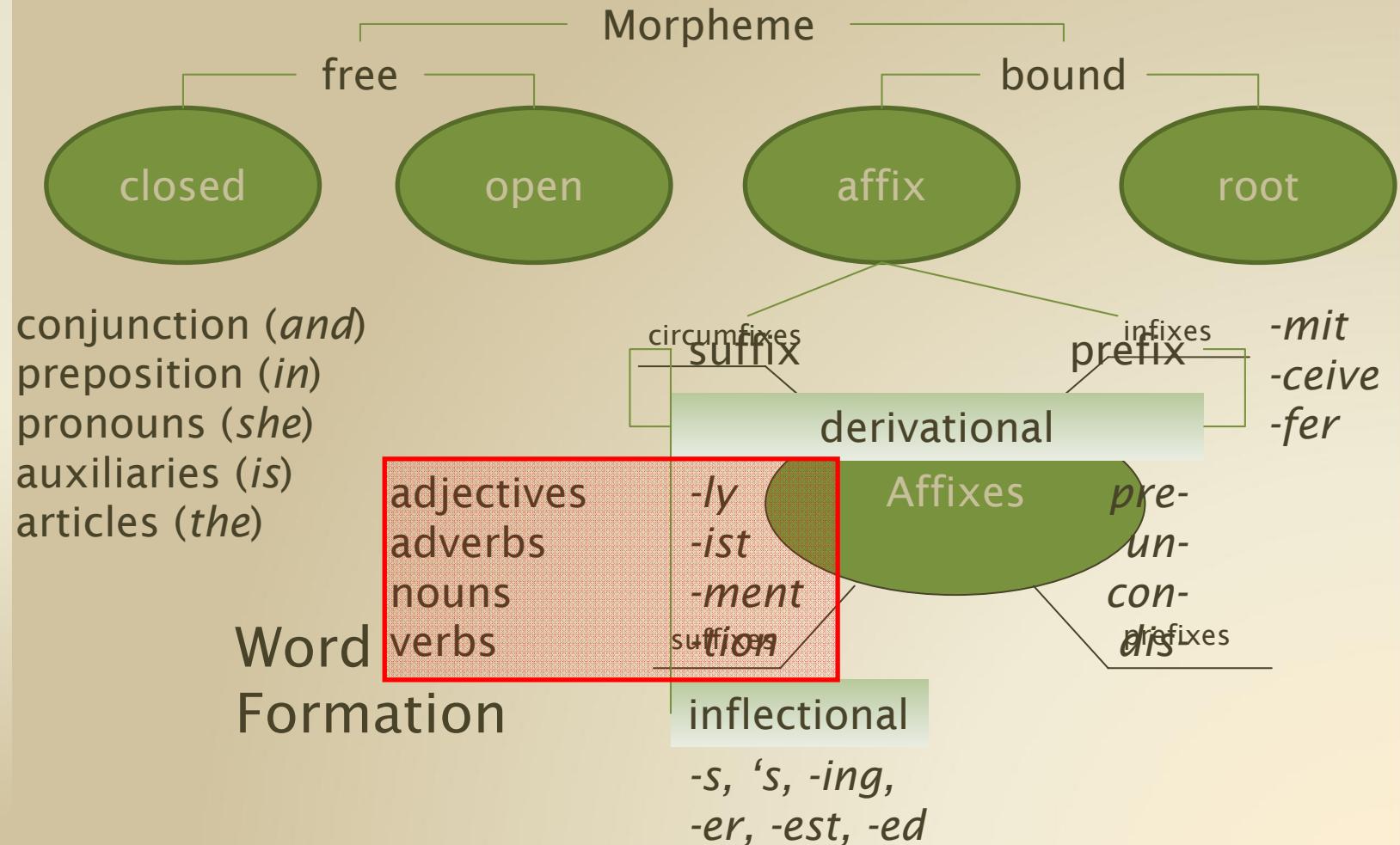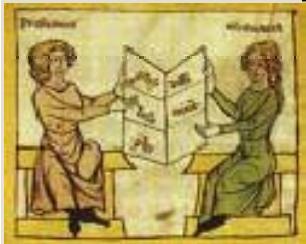
Word Formation

Affixation

noun → adjective (boy + ish)
verb → noun (clear + ance)
adjective → adverb (exact + ly)
noun → verb (moral + ize)
adjective → noun (abstract + ion)
verb → adjective (read + able)
noun → noun (friend + ship)
verb → verb (re + cover)
adjective → adjective (in + flammable)

Compounding

	Adjective	Noun	Verb
Adjective	bittersweet	poorhouse	whitewash
Noun	headstrong	homework	spoonfeed
Verb	----	pickpocket	sleepwalk
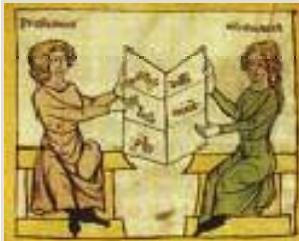
Alternative Processes

- Acronyms: UNESCO
- Back Formations: edit
- Abbreviations (clipping): fax
- Blends: smog
- Eponyms: sandwich
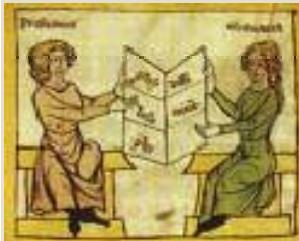
Syntax

Study Objectives:

- Learn how to analyze sentences
- Phrase structure trees
- Core issues in syntactic theory
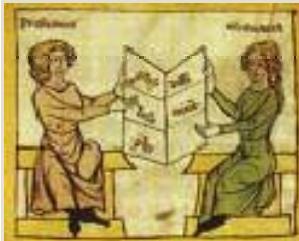
Sentence Structure

Synthetic baffalo hides

synthetic   buffalo hides

synthetic buffalo   buffalo   hides

Meaning?

Phrase Structure Trees

$[_S[_{AP}\text{synthetic}][_{NP}[_N\text{buffalo}][_N\text{hides}]] \rightarrow [_S[_{AP}][_{NP}[_N][_N]]$

Synthetic baffalo hides

synthetic

buffalo hides

buffalo   hides

S

AP   NP

A   N   N

hierarchical

linear

Definition:

S – sentence

AP – Adjective phrase

NP – Noun phrase
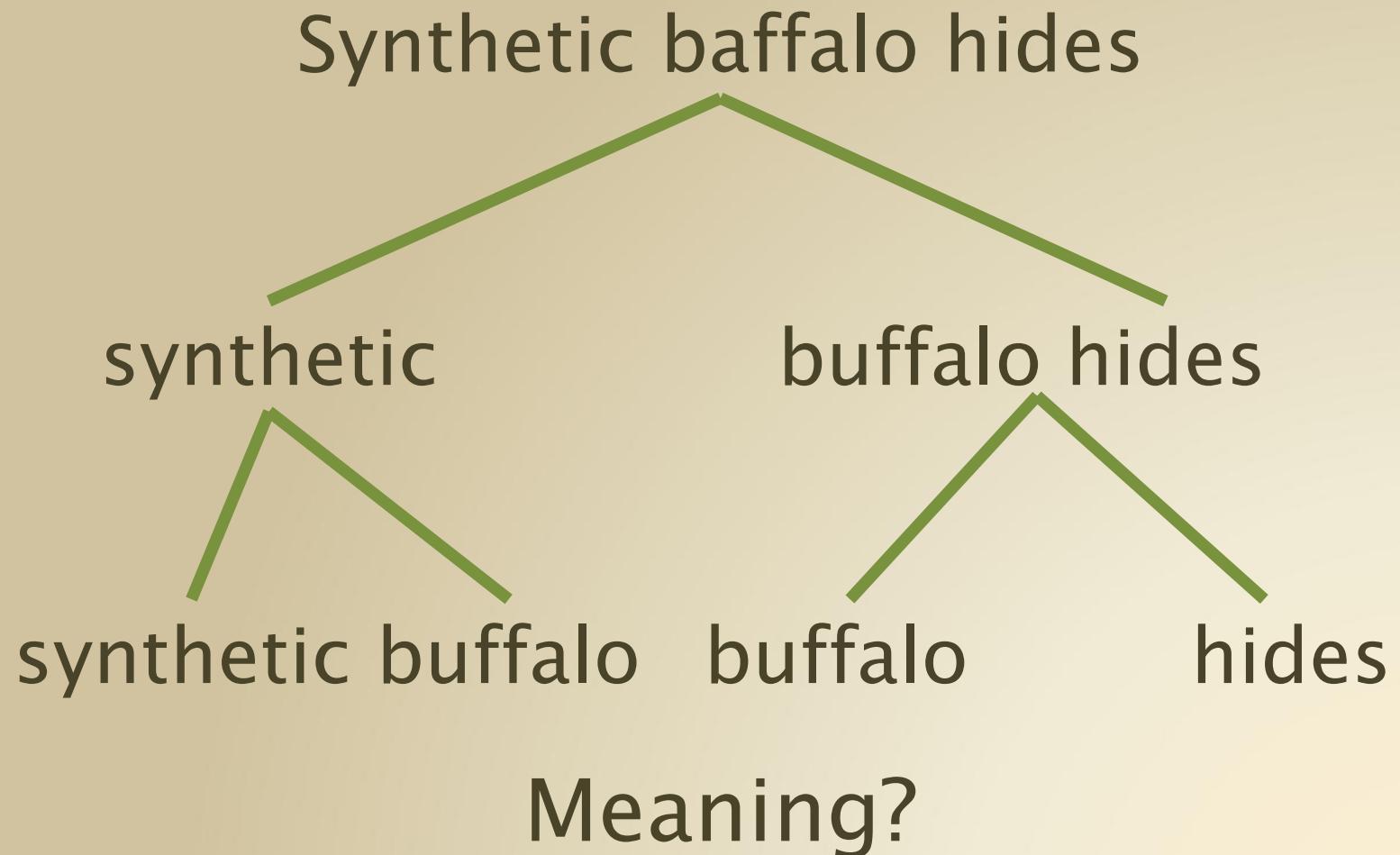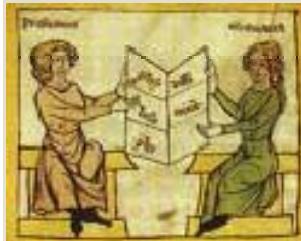
VP – verb phrase

PP – prepositional phrase

IP – inflectional phrase

Phrase Categories (POS):

Node Phrase

Head

branches

sisters

complements

immediately dominate

dominate

A – adjective

N – noun

V – verb

P – preposition

INFL - inflection

Det - determiner

Aux – auxiliary verb

Comp - complementizer

phrasal   lexical   functional