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#### A PROPOSED LANGUAGE MODEL

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	Conversation	Discourse	
	Utterance	Paragraph	
	Breath Group	Sentence	
Phonetics	Pause Group		Semantics
(Sounds)	Foot	Clause	(Meanings)
Phonology		**************************************	Grammar
	Syllable	Phrase	
	<del></del>		
	Phoneme	Morpheme	
	Dist. features	Sem. components	

#### TENTATIVE DEFINITIONS

These definitions or characterizations are general norms, which individual languages may reinterpret in different ways.

# Phonological Hierarchy

 $\label{eq:def:Distinctive features: the emic articulatory/acoustic characteristics.}$ 

Phoneme: a minimum significant systemic linear segment of sound.

Syllable: a stretch containing a vocalic pulse with any onsets and codas.

Foot: a stretch containing a stressed syllable and any associated unstressed syllables.

Pause Group: a stretch between potential or actual pauses, containing one or more feet.

Breath Group: a stretch uttered in a single breath, containing one or more intonation spans.

Utterance: a stretch uttered by one speaker with terminal silence before and after.

Conversation: a stretch containing a single language-using situation, covering one or more utterances.

Note that distinctive features often have prosodic functions.

# Grammatical Hierarchy

The grammatical hierarchy is complex, containing parallel deep structure, surface structure, and encyclopedia elements. Deep structures are most commonly manifested by their parallel surface structures, though they may freely be manifested by other ranks (levels) of surface structure. The encyclopedia structures give taxonomic, synonymic, antonymic, collocational, and other similar information.

Semantic components: the emic real-world features.

Morpheme: the deep morpheme is the minimum segment of meaning that has surface manifestation (e.g. 'big'). The surface morpheme is the minimum manifesting segment that has meaning (e.g. big). The morpheme encyclopedia structures include taxonomies, classifications, components, and collocations.

This is the dictionary rank (level) of a language.

Phrase: the deep phrase is the minimum unit of identification or description composed of a head morpheme plus any modifiers (e.g. Item - house, Quantity - two, Quality - big) (Action - run, Phase - linear, Quality - fast). A surface phrase is a stretch containing at least one morpheme, identifying a clause role or predicate (e.g. two big houses, running fast). The phrase encyclopedia structure gives information such as synonymity/contrastive relations between participants in a discourse, and collocational restrictions between heads and modifiers (e.g. John = my uncle = the man wearing an overcoat = he).

Clause: the deep clause is the minimum unit of described action

(predication) composed of an action plus any associated role

fillers (e.g. Predicate - saw, Actor - Bill, Patient - the

dog). A surface clause is a stretch containing a predicate

and any identified participants (e.g. Bill saw the house). The

clause encyclopedia structure gives information such as

synonymity/contrastive relations between events in a

discourse, and collocational restrictions between events and

participants (e.g. John ran away = his action = John's

fleeing = that).

Sentence: the deep sentence is the minimum unit with illocutionary force and a locution; the locution may contain one or more related events or descriptions (e.g. Cause - the bull saw red, Result - the bull charged the matador, Illoc. force -

statement). A surface sentence is a stretch containing at least one main clause, with any dependent clauses (e.g. The bull charged the matador because it saw red). sentence encyclopedia structure gives information such as the logical and implicational chains and collocational restrictions in the cultural setting of the discourse (e.g. bull-fighting collocational implications may be assumed in Spanish cultural setting, not in British cultural setting).

Paragraph: the deep paragraph is the minimum unit with a purposeful wave of illocutions having a common topic or focus, a common set of major participants, location, general time, and vantage point. A surface paragraph is a stretch of one or more sentences with a common time and location horizon and a common focus. The paragraph encyclopedia structure gives information such as the speaker's vantagepoint, and speaker-hearer relations and restrictions.

Discourse:

a deep discourse is a unit embodying all the discussion on a subject. A surface discourse is a stretch of one or more paragraphs with a common theme. The discourse may be viewed perhaps as simply an independent paragraph structure.

## TRANSFORMATIONAL INTERRELATIONS OF STRUCTURES

Surface structures are considered to be manifestations of deep The various surface structures manifesting the same deep structures.

structure (whether on the same or different surface ranks) are considered to be transforms of each other. When manifested on a lower rank the transform is generally seen as an embedding.

A deep structure morpheme may be commonly manifested (conditioned or freely variant) as a surface morpheme (e.g. <a href="https://example.com/house">house</a>) or a phrase (Jack-in-the-pulpit).

A deep structure phrase (Item - man, Quality - tall, Definiteness - the) may be commonly manifested as a surface structure phrase (the tall man), a clause (the man being tall), or a simple sentence (The man is tall). Also (Item - George, Description - king) becoming King George or George is king.

A deep clause (Predicate - ran away, Actor - the man) may be commonly manifested as a surface clause (the man ran away), or a simple sentence (The man ran away), or as a surface phrase (the man who ran away).

A deep sentence (Condition - John comes, Consequence - you will talk to him, Illoc. force - interrogative) may be commonly manifested as a surface sentence (If John comes, will you talk to him?), a clause (asking you whether you would talk to John if he comes), or a simple paragraph (I asked if you would talk to John if he comes.).

A deep paragraph (Time - the next morning, Location - Mudville, Topic - everyone sad) may be commonly manifested as a surface paragraph (The next morning, July 8, everyone in Mudville was sad.

Casey had struck out.), a surface sentence (This was because everyone in Mudville was sad that morning, mighty Casey having struck out the day before.), or a simple discourse (On July 7, 1898, mighty Casey, the town hero, struck out. So the following morning everyone in Mudville, Tenn., was sad.).

A deep discourse may be commonly manifested as a surface discourse (The Tale of Casey. In Mudville, Tenn., Casey, the slugger on the baseball team, was the town hero. On July 7, 1898, Casey struck out in a crucial game, to the disappointment of the entire town.), or a surface paragraph (To illustrate my point, I'll tell you about Casey. Casey, the town hero of Mudville, Tenn., struck out in a crucial game on July 7, 1898, disappointing the entire town.).

### GENERAL PROCESSES AND PROSODIES

There are some language processes which may be applied on any rank (level) in the structure.

Negation: morpheme negation (<u>illogical</u>, non-unique), phrase negation

(not the man in the brown coat, didn't go), clause negation

(not because I didn't want to, not in order to get better),

sentence negation (It's not the case that he was absent.).

Foregrounding: On the phrase rank the noun head (verb head, etc.) is commonly but not necessarily foregrounded. On the clause rank one or another of the participants may be foregrounded (active vs. passive, etc.). On the sentence rank one of the clauses is usually given the status of main clause, with the other clauses as subordinate clauses. On the paragraph rank one sentence is usually the topic sentence. On the discourse rank one paragraph is usually the climax of the discourse, with the other paragraphs building up to or stepping down from the climax.

### Compounding:

- Contrastive compounding: verb phrase running fast but effortlessly;

  noun phrase the small but heavy man; clause not John

  but Bill went; sentence Because John was sick but Bill

  wasn't, only John went to the doctor.
- Equivalent compounding (there may be varying degrees of equivalence, from identical repetition to loose paraphrase):

  verb phrase running fast, swiftly; noun phrase the heavy 250-pound man; clause John, Mary's father, went; sentence Because John was sick (he had malaria), he went to the doctor.
- Alternative compounding: running either fast or carefully; noun phrase one or another of the men; clause either John or Bill will go; sentence I called the doctor because

either John was sick or I don't know sickness when I see it.

- Additive compounding: verb phrase running fast and carefully; noun phrase the dark 250-pound man; clause John and Bill went; sentence Because John was sick and Mary had an appointment, neither one went to the party.
- Unit Cohesion: A phrase may have concord between the elements in the phrase, thus marking it as a single whole. A clause may have agreement between the subject and predicate, linking them together as a unit.
- Class, Construction, and Case Marking: At the phrase rank the various word classes may be marked (-ly, -ness, -ship, -like, -ish, etc.). At the clause rank the various participant roles may be marked (with, to, by, from, etc.).

  At the sentence rank the clause roles may be marked (because, in order to, after, therefore, etc.).

#### DEBTS

This proposed model owes to Kenneth Pike the concepts of plural hierarchies, emicness, manifestation, and roles (with Charles Fillmore), to Robert Longacre the higher grammatical levels and the interaction between deep and surface structures, to Zellig Harris transformations, to Henry Hiz batteries of transformation, to Harold Conklin lexemes, to John Crawford, David Bendor-Samuel, and Kenneth Pike some of the higher-level phonology, to Eugenie Henderson and

others some prosodic concepts, to J.L. Austin, J.R. Searle, and others the terms 'locution' and 'illocution', to Joseph Grimes the term 'encyclopedia' and some of the features of the encyclopedia structure, and to Alan Healey, Bruce and Barbara Hollenbach, George Huttar, and others, many details not apparent from this sketch.

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Note: It will be noticed that this framework sets up neither word nor stem (nor several other possible levels) as universally motivatable levels, since such levels seem to require language-specific definitions. And the word, especially, is often defined either phonologically or pragmatically rather than semantically.