#### Semantics

"Don't argue over semantics." ?? what does it mean? 2102001 m313

Study of the meaning of words, phrases, & sentences.

Semantic analysis

conventional meaning of linguistic forms, not necessari-ly what an individual thinks or intends that is a shared meaning across all speakers of a language competent a language

### Different types of meaning

Rejercutial meaning · Basic, essential components of meaning

· literal use of the work e.g. dies means the animal that how four limbs and

a tail and is a primate, likes barana, associated with Hansiman etc.

# Associative meaning

. The word cite? can mean different things to different

or to someone who doesn't do one's job in time, or may be associated with Hanuman, etc. · Such meanings are not referential, but associative.

			_		
Semantic feat				•	
· Basic element	ot a i	words Ita	unimate]	[+dome feline]	esticated]
. More precisely:	Compoi	nent a a c	oncept t	hat is	
1 0	associa	uted with	any gra	mmatical	unit
	like	word	0 0		
example: @ cat					
T+0	ani mate	7 [+ dome	esticated	[felir	e]
@ leapa	nd	[-domesti			•
<u>[</u> †a	nimate]	[-domesti	ated][	feline [	
® acto	r				
+1	male] [	t performer			
Can you ex	pard	the list a	of featu	res!	
· 90 understand w	ord meani	lyg.			
· mental representation	in of word	s — tagging	compoure	manki'va	whomatica Uu
· NLP & AI		•	· cluster re	Noted Ass	ana te
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feature	man	woman	o dog	ውታ	
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Ct temore)	0	1	<b>D</b>	1	
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man: [100] woman:	T1.1.07 1	04 · 50 0.47 · 4	at'. [D.4.1	7 4 2-1	Dspace
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Lexical relations

· The relationships of meaning between words

words are described not in terms of their component peatures, but in terms of the relationship with other words · Synonymy ·Homonymy ·Homophony ·Antonymy ·Polyse

\* Synomymy: synomyms, e.g. big/large/huge, punny/comical offen our be replaced one for the other, but not always

\* Antonymy: antonyms, e.g. girl/boy, live/die, high/low one means the opposite of the other

- Gradable: tall/short, sad/happy
- Non-gradable: yes/no, alive/dead? alka complementary pais
- Reversives: dress/undress, rise/fall, pack/unpack, enter/exit
Sido the opposite of "

\* Hyponymy: meaning of one form included in another vehicle/car, animal/tiger, country/Nepad in another vehicle vehicle like - Co-hyponyms: car, bus, bike - Superordinate: Vehicle, animal, country

\* Prototype: 'a characteristic instance"

" helps explain the meaning of certain word(s)/category

e.g. sparrow is a prototype of bird, but ostrich is not

t-shirt is a prototype of clothing, but shoes is not

\* Homophones: different forms, same pronunciation, most eg. to/too/two, pale/pail, meat/meet, right/write, flour/flower \* Homonyms: same form, same pronunciation, different e.g. (bank (firancial institution) meaning e.g. bank (firancial institution)
bank (riverside) mole (on skin) - mole (small animal) race (contest of speed) - race (ethnic group) boot (flying creature) - bot (used in sports) Homonyms have separate histories and meanings, no connection. · Separate dictionary entries \* Polysemy: same form, related meanings e.g. head · a part on top of the body · froth on top of a beerglass · person at the top of a compan · Single dictionary entry with multiple meanings listed. \* Metonymy: a figure of speech an object/concept is referred to by something that is closely related — content-container relation, whole-part relation, or a representative-symbol

e.g. bottle/water, house/roof, the PM/Singhadurbar kettle/water car/tank

\* Metaphor: a figure of speech in which a term is transferred from the object it ordinarily designates to an object it may designate only by implicit comparison or analogy, e.g. attizza of object 3 of lawn of her career

## Sentence Level

* Entailment			q.	
p: Cot killed rat.		Т -	> <b>T</b>	
q: Rot died.		F	→ Tor F	
V 33.3.	iii	F	← F	
i) When p is true, q is true.	iv	TorF	<b>←</b> T	
li) when p is palse, q can be true	or	bulse		-
ii) when q is false, p is pulse.				
iv) When g is true, p can be true	or	jalse.	•	

a square entails a rectargle

not square >> not rectargle

\* Equivalence · A and B are in equivalence rel if they entail each other

> Contradiction

e.g. John Freked Mary. 7 Mary Freked John. -

Ram owns this book.

This book belongs to Ram.

e.g. No one is happy

Someone is happy.

· A and B are in condeadiction it each entails that the

other is false, i.e. A entails the negation of B or vice versa.

* the supposition
embedded assumption is the sentance
The presupposition remains despite negation
The moon in my pocket is glowing hot.
The moon in my pocket is not allowing hot.
The moon in my pocket is glowing hot.  The moon in my pocket is not glowing hot.  There is a moon in my pocket"
S may or may not be true - we are making supposition
Is the moon in my pocket glowing hot?
P. The emperor of Mars is my priend. P Q
The emperor of Mars is my griend. $P = Q$ There is an emperor of Mars. $T \to T$
The emperor of Mars is my griend. $P = Q$ There is an emperor of Mars. $T \to T$ $F \to T$
iii TorF → T
* Preupposition failure
.
"Have you stopped bunking classes on Mondays?"  no good answer to it
the same state of the
TO SHOOM COLLY COST AS LE
100 grood acus over 40 it
* Implicative -> we'll see in Pragmatics
inot an entailment but injerence you draw
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inot an entailment but injerence you draw
Implicative —> we'll see in Pragmatics  not an entailment but injerence you draw eg. 'Can you pass me the pen ?"  implicative: The speaker wants you to pass her the pen.
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Implicature -> we'll see in Preignatics  . not an entailment but inference you draw eg. 'Can you pass me the pen ?"  Implicature: The speaker wants you to pass her the pen.  Teaser forthenext class:  . I'm glad I'm a man, and so is Lola.  . I saw her duck.
* Implicative -> we'll see in Pragmatics  . not an entailment but injerence you draw eg. "Can you pass me the pen ?"  implicative: The speaker wants you to pass her the pen.  Teaser parthenext class:

2025.08.18 Mon · iff you can infer more than one plausible meaning · can arise at different levels from phonetics to morphology, semantics, syntax Ambiguity 1) Lexical ambiguity < Semantic ambiguity when a word (or morpheme) is ambiguous \* polysemy \* homonym \* homophony e.g. He likes it because of its bark.

No dear! I can't get you a bed!

I saw her duck. He kicked the bucket.

more @ Scape ambiguity - Syntactic aubiguity...later Every teacher has a favorite student.

inverse scape: One student who is liked by all teachers.

surpace scape: All teachers have at least one student

they like, not necessarily the same student.

From previous class: what's the gender of a table? The sun: el sol ! die Sonne F N the moon: la luna: der Mond M

the table: la mesa : die Tabelle der Tisch m

M the boy: el niñom: der Jungem

The girl: la niña: das Mädchen Newter

the woman: la mujer: die Frau F

## Syntax

· the rules that govern how words can be combined to form phrases and sentences

Karna constructed a chariot. Constructed karna chariot a.

· The rules to form a sentence refer to categories or types of words (e.g. nouns, verbs), not specific words themselves (e.g. Karna, created).

For example: "A sentence can be created from a noun and a verb." instead of ".... from Karna and constructed

· Generality of syntaltic rules

word, they can form a sentence using that word pollowing the rule that word pollows eg. if told that "rostalizole" is a new medicine recently discovered, a new sentence can be formed as follows: · It you have an upset stomach, take a coupsule of

rostalizole before meal.

· Syntactic categories (or parts of speech; pos)

Noun (N), Verb (V), Adjective (A), Determiner (D), and Preposition (P) > major word categories

Degree words (Deg): too, so, very, much, quite

Auxiliary (Aux): will, could, must, be, houre, do Conjunction (con): and, or, but, nonetheless, however

	2025.08.19 Tuesday
	لب
unlockable > unlock + able	
→ un+lockable Adj Adj	
v -able -un Abj	
/ v	
-un lock lock -able	
i.e. unlockable is not a series of 3 they are arranged and interpreted.	merphemes, it's how
there are arranged and interpreted.	,
an account of the force or great of the contract of the contra	
Similarly in sentences they're not just	sequences a words
Similarly, in sentences, they're not just . but how they are assembled and inter	preted.
	T
· Madan walked up the hill	
· Madan walked up the hill. · Muna booked up the dictionary	
100 Z 30 GP 1 1 C 30 GP 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3	

Meaningful familiar - Let's go to the dance floor.

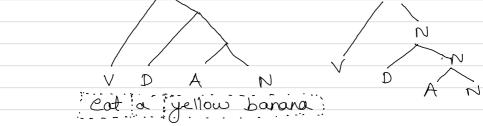
unfamiliar - Their cock roach is on a hotair balbon Let's the dance floor go to. Impossible

· not about memorising, or meanings (se categories y'day)

It's not about meaning. Where does meaning come from?

· Colorless goven ideas sleep puriously · Green ideas funiously sleep colorless.

Composence us fertammance
· Let's the dance floor go to.
Mormally people don't speak in full sentence, paragraph There are paused and fillers. (except Noam Chomsky lot i.e. Pertonnance
her are pauses and fillers. (except Noam Chomsky 101
1 alla as to the language look
· Let's go to the dancefloor and spend the night dancip
· She says, Let's go to the"
· In my imagination, she says, ""
This can go on and on to infinity
This can go on and on to infinity
$\wedge$

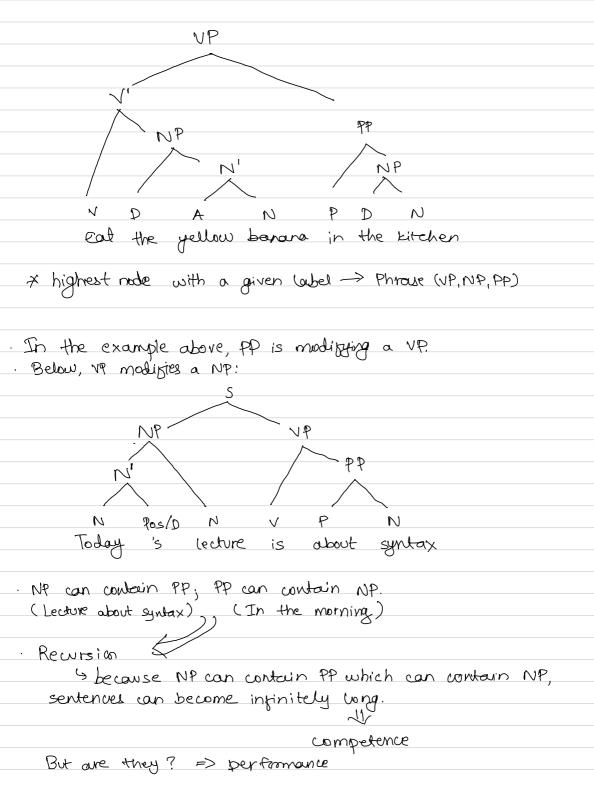


You should cat a yellow barrana in the kitchen.



I'll walk up the stairs. I'll wake up the kids.

Phrase structure & Phrase structure rules PS: The way parts of sentences/phrases are organised and related to one another · a concept closely related to Chomsky's Transformational Generalive Grammar PS rules: describe the syntax of a language, how the constituent parts of the phrases are organized syntactic categories, including lexical and phrasal categories e.g.  $S \rightarrow NP VP$ i.e. A sentence consists of a noun phrase and a verb phrase. NP -> (Det) N,  $N_1 \rightarrow (AP) N_1 (PP)$ where the constituents in round brackets are optional.



Topicalization

A method of establishing an expression as the topic of a sentence (or clause) by moving it to the pront of the sentence rather than in its standard position in the later part of the sentence.

- movement of deferminers, prepositions, verbs

- whalever can be topicalized is considered "constituent"
e.g.: She gave him an apple -> An apple she gave him.

They work for money. -> For money, they work.

She works hard despite her illness. -> Despite her illness she works hard.

Can I have that pie? -> That pie, can I have?