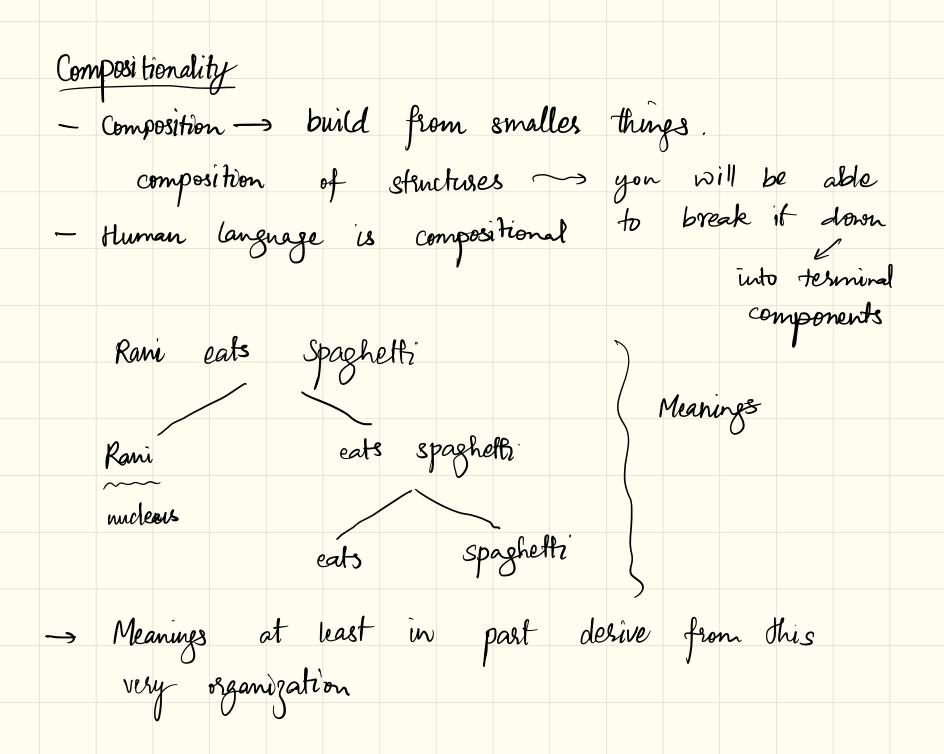
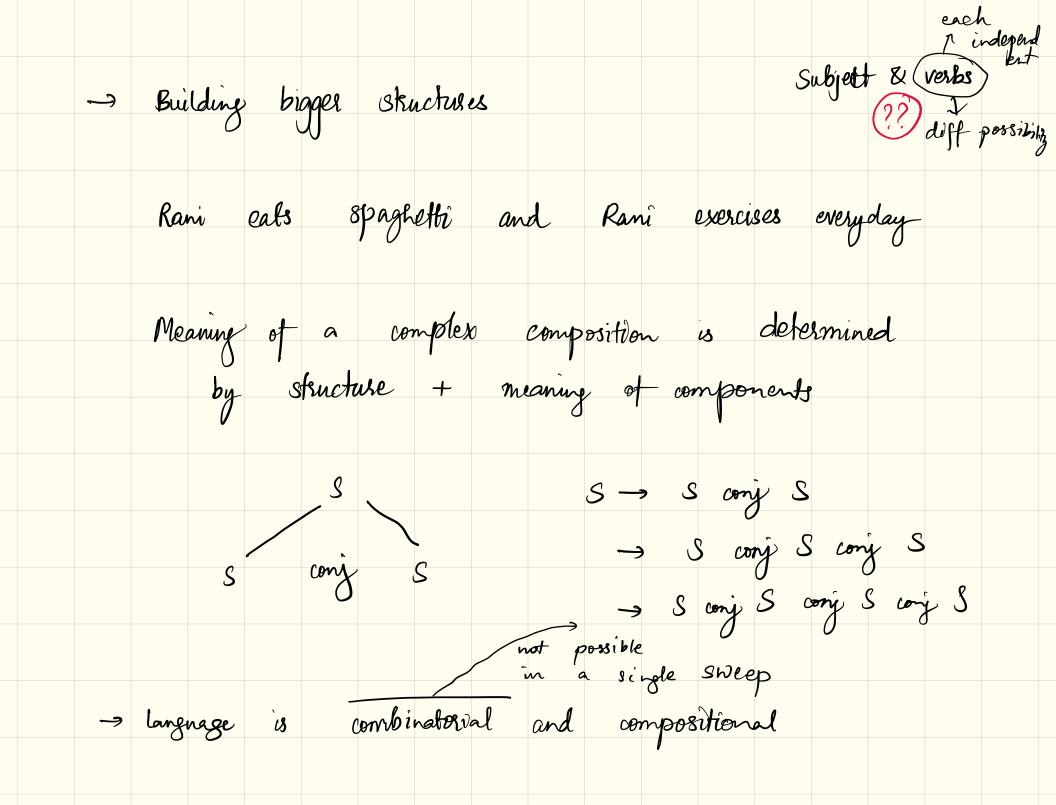
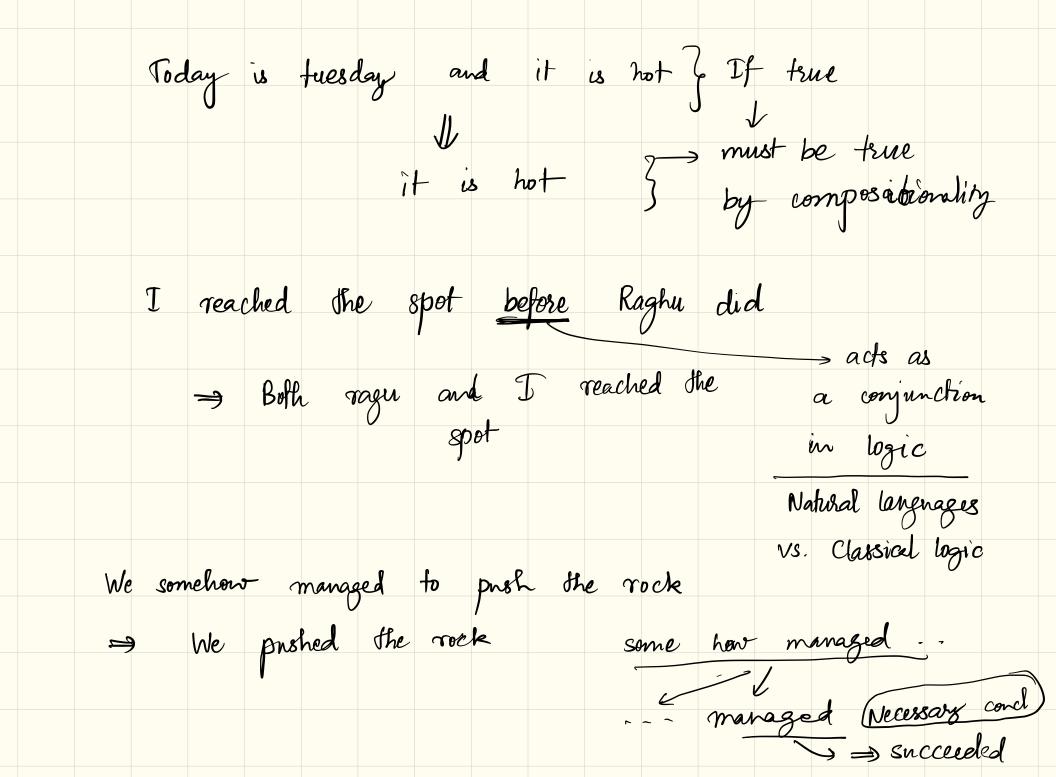


Core	qu	estion	3								- 9	lingui	stic	logic	
												0	VS.	logic	
														logic	
											->	hunan	lo o	ogic ~	
												P	ean	al,	
									Re	ading	23				
										ading Vo	need	ジ			
										u:	sten				
			Eva	luatio	n										
			->	2	tests	(5	07.	+ 50%	7.)						
					J 5 M	CQs	+	5 and	dutic	exe	cises		4		
									$Q_{i,j}$						

12 Feb 2025 Categorial grammas -> Manings, Grammar and Logic friday 1) depends on <u>Syntax</u>: arrangement matters, arise from skucture like context 2 establish inferential links not solely dependent on syntax/substrate 3) Inferences in Human Cangnages of symbols "I did go to the market yesterday" inte Will not go today







Jonny left without filing the patent > there's no { NOT in 1st gfatement → Jonny didn't file the patent > without = negators Meaning intuitions own logic * Rong is a Cricketer syntax property

is a Sport-sperson determines sportsperson is a superset of cricketer * It is sunny 2 does not automatically follow It is warm I -> possible to conclude? -> by
composiblinality × the meanings
meanings -> organize/crystallize experience organize/crystallize experience

She is a spinsfer She is married Syntactically makes sense but illegitimate conclusion - you may not know the Probability vs. Fuzziness Syntax and vords under * The patient should survive next week * The patient is young compositionality x word? Not all inferential links can be derived from syntax

partially from experience & exact word meanings

		cautan
Syntax	of the word	syntax under delormines
Knowledge	e of the world	
All men	are human. No women	are men
Therefose,	no women is human	
·		

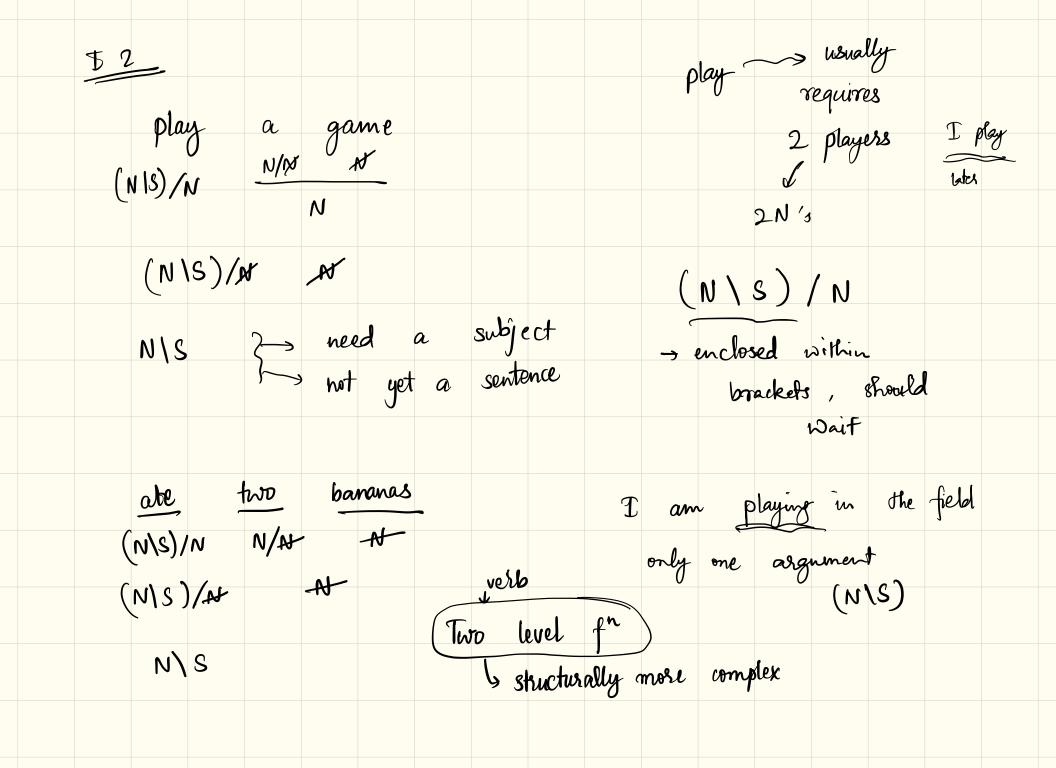
Complex - determine if bogically correct Human Language is 14 Reb 2025 compositionality can be formulated * Analogy from math based on some part of Sogical principles a system known as x + y, not xy +aly but not y/x * Similar in CG 1953 formal
1958 current form

Provides a natural way to account Categorial grammar correspond en ces

Categorial category reduced to: nouns and sentences All categories are - brings elegance propositions, etc? ~ CG simplicity of - how to describe CG = (V, C, R, F) maps each vocabulary functional composition all words category $R \rightarrow defines$ how words combined 3N,S}

R: set of functional composition rules N original N notation determiners; a , an ... N/N function N N function slash notation: 1 - indicates from which side the input is taken A cor Car A a M/N $N/N \rightarrow N$ other languages

Uustration What does cancellation mans the book N/W N N } Noun-like entity N determiners pick up a subset adjectives ~> like deferminers way meanings combine is The superimposed on how forms combine



I play.

R -> combinatorial rule

not many rules are required to get the complete

language.

In many languages, subject is dropped, but subject and verb are not combined.

(NS)/N = 9f(N) = N/S 2 f(N) = S

CG	~	~>	works	for	all	las	gnage	8								
			difficult	for	la	meua	ges	like	Tu	rkish	/ b	A 1	5 08 816	le		
									ore v	rds a	are (glued	tog	ether		
F :	d	the	ph	that	'	aps	Wen	ds	to	ils	set	of	catego	ries.		
		af .			•											
		These	kids	•	play	_	<u>l</u>	gam	<u>e</u>							
		N/N	N		(4/5)/1	N N	1/01	gam	_							
		N/N	N				N									
		N/M	M				\ S								,	
		N/M				K	\ <u>S</u>									
				S												