ch-14 Understanding

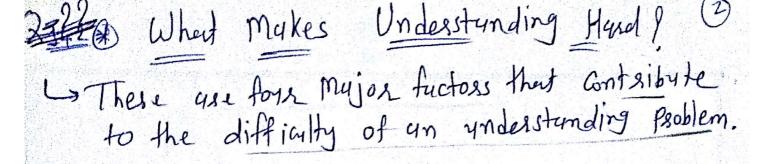
14.1* What is Understanding!

Ly To understand Something is to transform it from one Representation into another, where this seend representation has been chosen to correspond to a Set of available actions that wild be performed a where the mapping has been designed so that for each event, an appropriate action will be performed.

Ly If you say to an airline dutubase system,
"I need to go to New york as soon as possible,"

the system will have "understood" if it finds the
first available plune to new york.

If you say the same thing to your best triend, who knows that your family lives in New york, she will have "understood" if she sealizes that there may be a problem in your family & you may need some emotional suppost.



- 1) The Complexity of the target representation into Which the matching is being done.
- 2) The Type of the mapping: one-one, many-one, one-many, as many-many
- 3) The level of interaction of the components of the Soyace sepsesentation.
 - 4) The Psesence of noise in the input to the yn desstander
- (1) Complexity of the Target Repseventation:
 - Commynication with a Keyword-bused duty Retaieval System-

&-> Sentence:

"I want to send all ubout the lust presidential election."

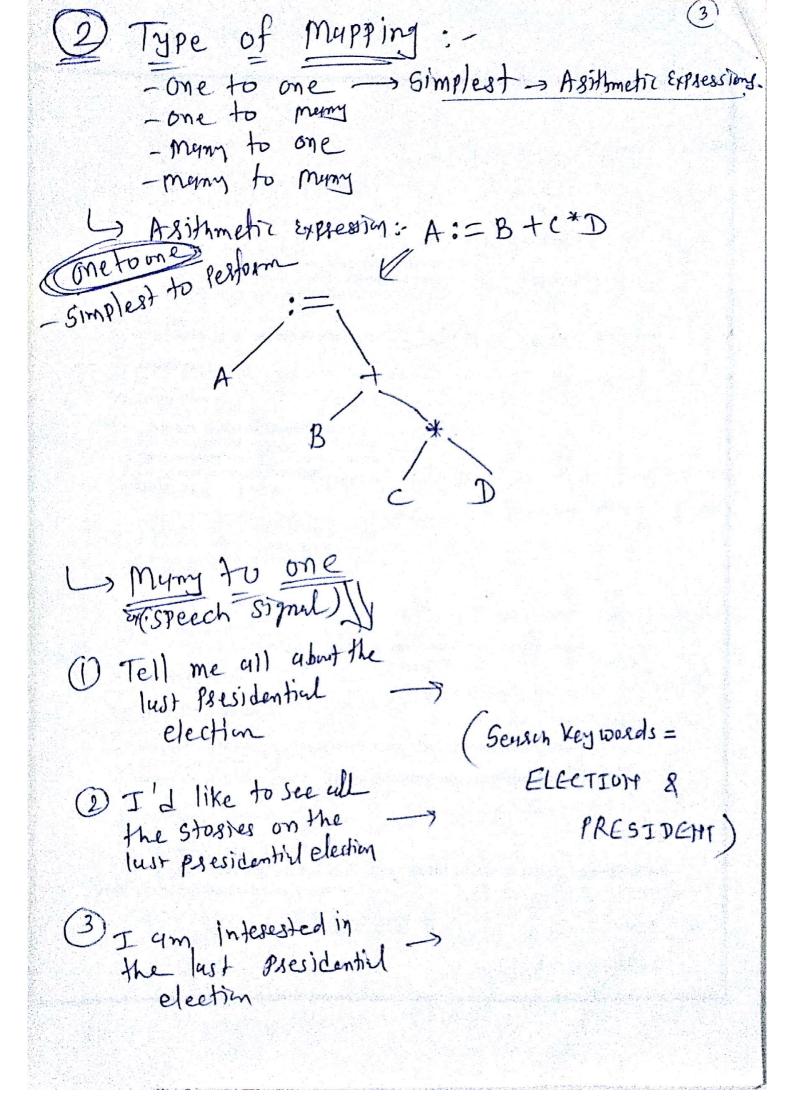
Lithis is trynslyted into representation such 41.

(SEARCH KEYWORDS = ELECTION & PRESIDENT)" Lygne all of.

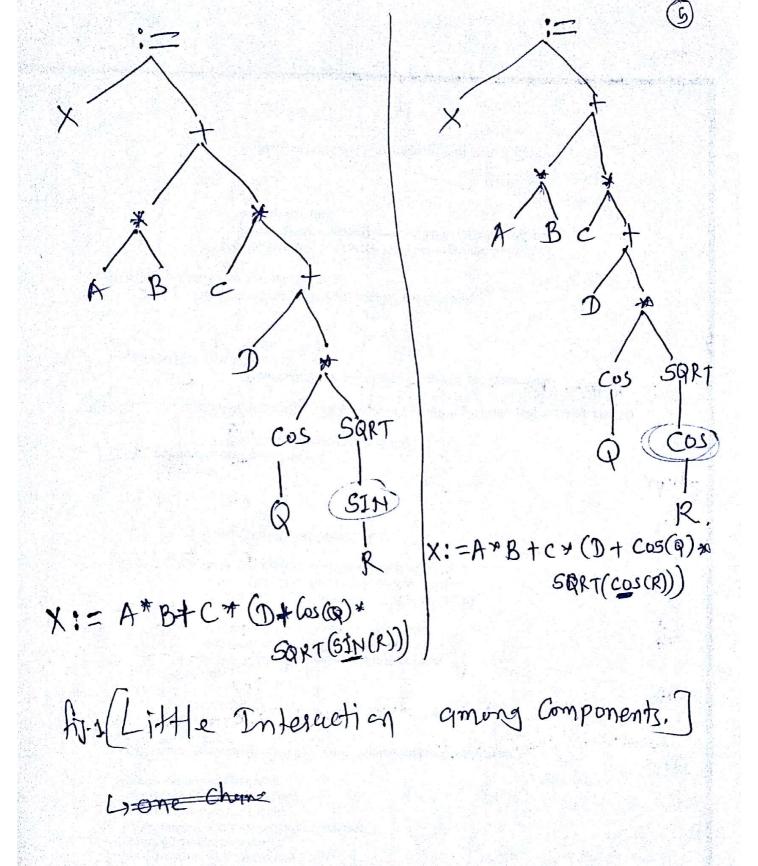
Lase. Consider the followary story as Inpot.

"Bill told musy he would not go to the movies with her. Her feeling were myst."

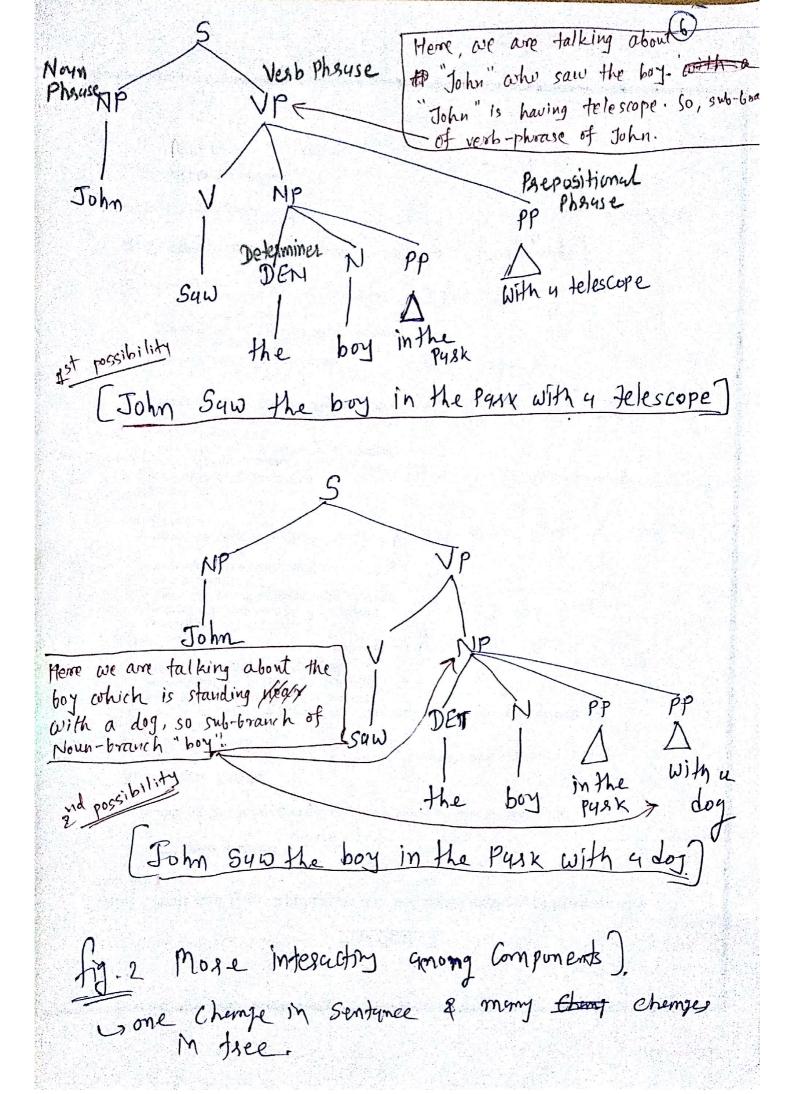
This representation is more complex.



1 - Ano to Meny	Y
- dne to many	(They use (flying airplanes))
They gae flying planes.	-> (They (use flying) aisplanes)
	-> (They use (flying, pluming tools))
	-> (They (use flying) plynning tools)
s Myny to Myny	
thing and a g many meanings	Whys to say the same iven statement may have
2) I will of Tooles	Composed of Several words, Symbols, 98 whatever)
Components (lines,	words, symbols, 98 w miles 9.
is Mapping process is	Simplest if each
Concern for	he other components of
The Statement	He interaction among
u tight - very in	He interaction among The Shows how Changery G stylement segulars
Gre Word of	a stylement segy/ses
only 4 single	a stutement segulses change in phase the
	기계 가격 전투하다 연결됐다고 모르다 하는데 맛이 없었다.



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possibility in level of interaction among componers Statement: John saw the boy in the park with a In this statement, are are talking about pack which located with a statue, so sub-branch of park. in the park

4 Noise in the Input:
Gresence of noise in the input to

the understander.

Inderstanding is the process of intespecting

an input a assigning it meaning.

Noise in speech understanding

Grander

We bearely have the opposition to listen

to each other against 4 background of silence.