MONDA WIE Nanc - Sudhamung Bokade primud buz zowici Roll No-20BAI10302 Marie Control of the و ١٠٠٥ و دو داو د کر ا Code - CSA 4006. slot-B21+B22/0328. FRAGIS-ON WED subject-NLP 91 Content Free Grapper Granmar (CFG) · A CFG is a list of rules that define the set of all well formed sentences in a language · Each rule has a left hand side, which identifies a syntactic category, and a right hand side. which defines its attending component parts. Reading \$5 from \$ left to Right. · A CFG only defines à language.

Tit cannot say whether a given string belongs.

to the language it defines. To help this, to map a string of words to its parse tree, a parser can be used. A parser can work either top-down or bottomup when proceeding through the search's pace created by the set of parse trees generated by A tree is built from the top. on when built by the top down parser, working from the start symbol towards the string.

This is a top down parsing process estarting from the symbol s. productions are applied to rewrite a symbol in the generaled stering until the input string is derived. eg. S=> MP, VP=>PN, VP=>PN V; >John V; L'andi Vi ch Lott B. On the flip side, a bottom-up parser starts from the input steing & applies the productions in reur until the start symbolis reached. Ho For enample, assuming a DFS of search space & left to right processing of the enput string, abottom up deruration of sudi sleeps queen inthegrammare G1 would be. Sudisleeps = TPN sleeps = DPN V = PNPV=PNP many distribution of the second of the . Jugadet a - " att pun and aktient and ma The parse tree of course remains the same,

924) Jime Flies like an arrais. Dome of the possible meanings of this sentence.

a) Time goes as quickly as an actor

b) For every 'time fly' (a kind of an unset)'n', thou is an arrow of such that in likes y

c) There are a particulair arrow 'k' such that is wery timefly (a kind of unsed) likes n. Many the one arrow.

The difference between 9), (b) &(c) arisis becomes of syntatic or (lenical ambiguity)! like" can be either a comparituel proposition or a verb.

Time here of yunterpreted uncorrectly, can give a literal sense of something flying through the air.

2) Me erushed a Rey to my Meart.

Possible meanings:

of the key to my heart is a common metaphor!

If someone holds the key to your heart,

it means roughly that you have to love

them.

b) There was & literally a key which was outsted to your heart.

There as another syntactic ambiguity with some semantic over touch. On reading a) the verb its "varish" is being used in simple transitive structure. 932) looked up the tree.

- Vurb Phrase. Because looking up to a tree is a an action hence "Looked up a tree" is a Verb Phrass.

931) Important to Bill.

- Adjecture Phrase.
- Because here something is important to Vere, important the way # a dring is related to someone.

- 94 An augmented grammer is any grammer. is any grammer whose productions are augmented with conditions inpressed using features.
 - " Any roron nonterminal symbol in a derivation may be associated with features.
- A feature associated with a non terminal symbol is shown following the non terminal set symbol is shown following that hand non terminal sepsecuted from it by a.
- An augmented content freegramar bor generating the strendly indened language Ln3 {a b c: n70.}. Non termials symbols that occur more than one in a production ardistriguished by indices

The non termal symbol to the left of the rewrite arrow's gets under 0. (Leg A.) & recurring non terminals to the right of the arrow get undies 1,2, from left to bright eg A1. COUNT is an iteger feature. Eafeature non terminal symbols.

if the real problem of the mean is one of the entire.

is one of the manage of the state of the state of

Go. In linguisties, a the leneme is the fundamental unit of the time line con (or word stock) of a language.

Also known as a or lenical unit, livical.

iten or lenical word.

In corpus linguistics, lenemes are commonly reffered to as lemmes.

'Aleneme is often but not always an individual word (da simple leneme).

· A single simple lineme may have a number of unflectional forms of grammatical variants.

"Amulturored or composite lenemes. is a leneme made up of more than one & phrasal verb, an open compound, or an ideam (make htty when the sun shines)

· I he vay in which a leneme to can be used. in a sentence is determined by its twoord class or grammatical catigory.

Lenicon

It is the vocabulary of a language or a branch of knowledge.

In linguisties, a tro lemionis a language's inventory of to lenemes

· Lenemes are not atomic elements but contain both phonological & morphological components.

Jodeskreibe size of linicion, lenemes are grouped into lemmas

with subjection and ilders it part