


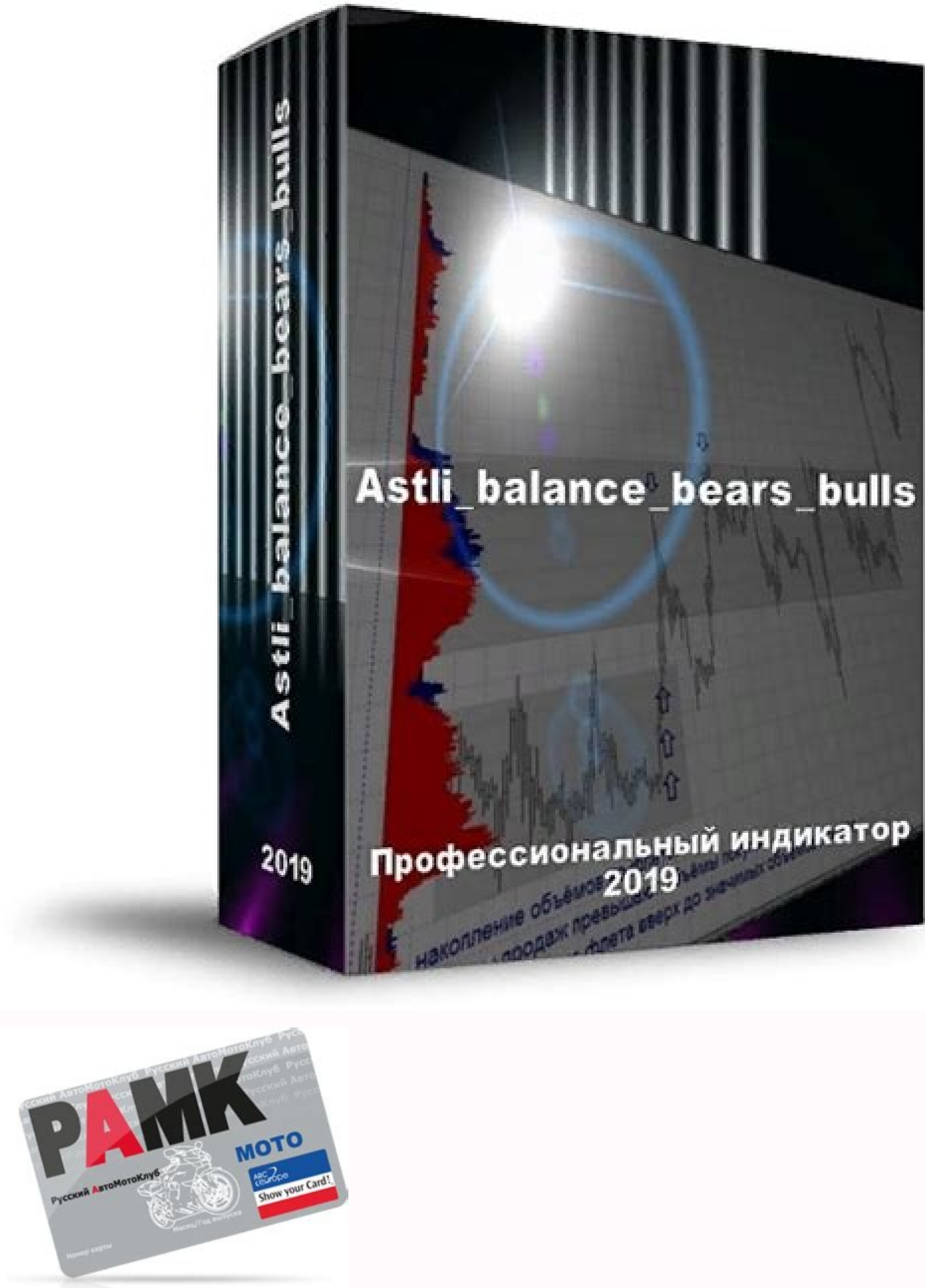
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It's clear that humans don't do this either! Note that the problem is not with our choice of example. c.Chatterer thought Buster was angry. Figure 2.1: Substitution of Word Sequences: working from the top row, we can replace particular sequences of words (e.g. the brook) with individual words (e.g. it); repeating this process we arrive at a grammatical two-word sentence. The program in 4.4 uses this rule to complete the WFST. >>> from nltk.corpus import treebank >>> t = treebank.parsed_sents('wsj_0001.mrg')[0] >>> print(t) (S (NP-SBJ (NP (NNP Pierre) (JJ old)) (,) (ADJP (NP (CD 61) (NNS years)) (JJ old)) (,) (VP (MD will) (VP (VB join) (NP (DT the) (NN board)) (PP-CLR (IN as) (NP (DT a) (JJ nonexecutive) (NN director)))) (NP-TMP (NNP Nov.) (CD 29)))) (, give NP: the president / NP: such power give NP: me / NP: the heebie-jeebies give NP: holders / NP: the right , but not the obligation , to buy a cal... Let's take a closer look at the ambiguity in the phrase: I shot an elephant in my pajamas. 4 . * Can the grammar in grammar1 be used to describe sentences that are more than 20 words in length? Implement a function that will convert a WFST in this form to a parse tree. The labels NP, VP, and PP stand for noun phrase, verb phrase and prepositional phrase respectively. * In this exercise you will manually construct some parse trees. In 2.2, we have added grammatical category labels to the words we saw in the earlier figure. In a CFG, we need some way of constraining grammar productions which expand VP so that verbs only co-occur with their correct complements. The numerically specified spans of the WFST are reminiscent of Python's slice notation (3.2). We can see the shift-reduce parsing algorithm in action using the graphical demonstration nltk.app.srparsert(). Loading PreviewSorry, preview is currently unavailable. c.Chatterer thought the bear. The parser finishes when all the input is consumed and there is only one item remaining on the stack, a parse tree with an S node as its root. However, these methods only scratch the surface of the complex constraints that govern parsing. For example, it may address shift-reduce conflicts by shifting only when no reductions are possible, and it may address reduce-reduce conflicts by favoring the reduction operation that removes the most items from the stack. >>> grammar = nltk.CFG.fromstring(""" ... What should it do if the root node of the tree passed to this function is not S, or it lacks a subject? Another difficulty is that as the grammar expands to cover a wider and wider range of constructions, there is a corresponding increase in the number of analyses which are admitted for any one sentence. About this document... This is an example of a space-time trade-off: we do a reverse lookup on the grammar, instead of having to check through the entire list of productions each time we want to look up via the right hand side. Figure 3.2: Recursive Descent Parser Demo: This tool allows you to watch the operation of a recursive descent parser as it grows the parse tree and matches it against the input words. Can you find other parses for this sentence? This long sentence actually has a simple structure that begins S but S when S. Let us take a closer look at verbs and their dependents. ★ Extend NLTK's shift-reduce parser to incorporate backtracking, so that it is guaranteed to find all parses that exist (i.e. it is complete). Dependency is a binary asymmetric relation that holds between a head and its dependents. 🔍 Read up on "garden path" sentences. (14) In languages with more flexible word order than English, non-projective dependencies are more frequent. How much more of the meaning of a text can we access when we can reliably recognize the linguistic structures it contains? """) >>> print(groucho_dep_grammar) Dependency grammar with 7 productions 'shot' -> 'I' 'shot' -> 'elephant' 'shot' -> 'in' 'elephant' -> 'an' 'elephant' -> 'in' 'in' -> 'pajamas' 'pajamas' -> 'my' A dependency graph is projective if, when all the words are written in linear order, the edges can be drawn above the words without crossing. Notice that there's no ambiguity concerning the meaning of any of the words; e.g. the word shot doesn't refer to the act of using a gun in the first sentence, and using a camera in the second sentence. Sbar -> NP V ... Before starting its work, a left-corner parser preprocesses the context-free grammar to build a table where each row contains two cells, the first holding a non-terminal, and the second holding the collection of possible left corners of that non-terminal. We need a way to deal with the ambiguity that natural language is famous for. To clarify this idea, consider the following sentence: (6)The little bear saw the fine fat trout in the brook. Speakers of English can make judgements about these sequences, and will reject some of them as being ungrammatical. Generate tree structures corresponding to both of these interpretations. Unlike an ordinary recursive descent parser, it does not get trapped in left recursive productions. V -> 'fish' ... By contrast with (15d), the word sequences in (16d) are ill-formed: (16) a.*The squirrel was Buster was angry. (15) a.The squirrel was frightened. NP -> 'fish' ... The NLTK corpus collection includes data from the PE08 Cross-Framework and Cross Domain Parser Evaluation Shared Task, for t in tree.subtrees(give): ... A parser processes input sentences according to the productions of a grammar, and builds one or more constituent structures that conform to the grammar. 🔍 Modify the functions init_wfst() and complete_wfst() so that the contents of each cell in the WFST is a set of non-terminal symbols rather than a single non-terminal. To simplify this presentation, we will assume each word has a unique lexical category, and we will store this (not the word) in the matrix. While CFGs are not intended to directly capture dependencies, more recent linguistic frameworks have increasingly adopted formalisms which combine aspects of both approaches. Consequently, phrase structure trees can have arbitrary depth. Do a web search for however used at the start of the sentence. This operation may only be applied to the top of the stack; reducing items lower in the stack must be done before later items are pushed onto the stack. PP -> P NP ... Is it something more abstract like the implicit knowledge that competent speakers have about grammatical sentences? In contrast to phrase structure grammar, therefore, dependency grammars can be used to directly express grammatical functions as a type of dependency. Does this illustrate a problem for an approach based on n-grams? The head of a sentence is usually taken to be the tensed verb, and every other word is either dependent on the sentence head, or connects to it through a path of dependencies. Thus, a production such as PP -> 'of' NP is disallowed. :) We can use this data to help develop a grammar. Examples are the Lexical Functional Grammar (LFG) Pargram project, the Head-Driven Phrase Structure Grammar (HPSG) LinGO Matrix framework, and the Lexicalized Tree Adjoining Grammar XTAG Project. When this happens, no input remains, and the stack contains items which cannot be reduced to an S. In 2.1, we systematically substitute longer sequences by shorter ones in a way which preserves grammaticality. Note Your Turn: Consider the following sentences and see if you can think of two quite different interpretations: Fighting animals could be dangerous. 2. """) This grammar permits the sentence to be analyzed in two ways, depending on whether the prepositional phrase in my pajamas describes the elephant or the shooting event. So rather than writing NP -> 'New York', you have to resort to something like NP -> 'New York' instead. Parsing builds trees over sentences, according to a phrase structure grammar. For example, the program in 6.1 uses a simple filter to find verbs that take sentential complements. Because neither of these productions will derive a sequence whose first word is John. As expected, there is a V in cell (1, 2). c.Chatterer really thought Buster was angry. Each of these subgoals can be replaced in turn by sub-sub goals, using productions that have NP and VP on their left-hand side. What syntactic construction(s) are responsible for such long sentences? Or is it some combination of the two? 1. What happens? S -> NP V NP ... Here's another pair of examples that we created by computing the bigrams over the text of a children's story, The Adventures of Buster Brown (: (4) a.He roared with me the pail slip down his back b.The worst part and clumsy looking for whoever heard light You intuitively know that these sequences are "word-salad", but you probably find it hard to pin down what's wrong with them. There are two kinds of choices to be made by the parser: (a) which reduction to do when more than one is possible (b) whether to shift or reduce when either action is possible. P -> 'in' ... In this section we will see how to access Treebanks, and look at the challenge of developing broad-coverage grammars. (5) a.The book's ending was (NP the worst part) and the best part) for me. Can the verbs be freely substituted for each other, or are their constraints? Change the grammar, and run the parser using the autostop button. This document was built on Wed 4 Sep 2019 11:40:48 ACST A well-known example of ambiguity is shown in (2), from the Groucho Marx movie, Animal Crackers (1930): (2)While hunting in Africa, I shot an elephant in my pajamas. How he got into my pajamas, I don't know. Write down the parenthesized forms to show the relative scope of and and or. Now use draw() to display the tree. print(tree) (S (NP fish) (V fish) (NP (NP fish) (Sbar (NP fish) (V fish))) (S (NP (NP fish) (Sbar (NP fish) (V fish))) (V fish) (NP fish)) As the length of this sentence goes up (3, 5, 7, ...) we get the following numbers of parse trees: 1; 2; 5; 14; 42; 132; 429; 1,430; 4,862; 16,796; 58,786; 208,012; ... Third, as a bottom-up approach it is potentially wasteful, being able to propose constituents in locations that would not be licensed by the grammar. Discard the productions that occur only once. 5 . (Dostoevsky: The Brothers Karamazov) 🔍 Write a recursive function that produces a nested bracketing for a tree, leaving out the leaf nodes, and displaying the non-terminal labels after their subtrees. (Try this with police if you prefer something more sensible.) Here is a toy grammar for the "fish" sentences. Each time it pops n items off the stack it combines them into a partial parse tree, and pushes this back on the stack. (Hint: the depth of a subtree is the maximum depth of its children, plus one.) * Analyze the A.A. Milne sentence about Piglet, by underlining all of the sentences it contains then replacing these with S (e.g. the first sentence becomes S when:'x' S). Det NP . . A collection of larger grammars has been prepared for the purpose of comparing different parsers, which can be obtained by downloading the large grammars package (e.g. python -m nltk.downloader large_grammars). The morphological form of D is determined by H (e.g. agreement or case government). If we introduce a new category label for transitive verbs, namely TV (for Transitive Verb), then we can use it in the following productions: VP -> TV NP TV -> 'chased' | 'saw' Now 'Joe thought the bear is excluded since we haven't listed thought as a TV, but Chatterer saw the bear is still allowed. In 3.1 we define a grammar and show how to parse a simple sentence admitted by the grammar. In common with all bottom-up parsers, a shift-reduce parser tries to find sequences of words and phrases that correspond to the right hand side of a grammar production, and replace them with the left-hand side, until the whole sentence is reduced to an S. Normalize case to lowercase, to simulate the problem that a listener has when hearing this sentence. You can experiment with parsing sentences that involve more deeply nested structures. The first time we build it we save it in a table, then we look it up when we need to use it as a subconstituent of either the object NP or the higher VP. Six stages of the execution of this parser are shown in 4.1. Figure 4.1: Six Stages of a Recursive Descent Parser: the parser begins with a tree consisting of the node S; at each stage it consults the grammar to find a production that can be used to enlarge the tree; when a lexical production is encountered, its word is compared against the input; after a complete parse has been found, the parser backtracks to look for more parses. There are many introductory books on syntax. With a bit of ingenuity we can construct some really long sentences using these templates. b. In order to remedy these, we will apply the algorithm design technique of dynamic programming to the parsing problem. Chart parsers improve the efficiency of computing multiple parses of the same sentences, but they are still overwhelmed by the sheer number of possible parses. The S - NP VP production permits the parser to replace this goal with two subgoals: find an NP, then find a VP. When the PP is attached to VP, the intended interpretation is that the seeing event happened in the park. We can develop formal models of these structures using grammars and parsers. NLTK provides a recursive descent parser: >>> rd_parser = nltk.RecursiveDescentParser(grammar1) >>> sent = 'Mary saw a dog'.split() >>> for tree in rd_parser.parse(sent): ... Earlier chapters focused on words: how to identify them, analyze their structure, assign them to lexical categories, and access their meanings. The final state of the WFST is depicted in 4.5. Notice that we have not used any built-in parsing functions here. For example, 1 is the SBJ (subject) of shot (which is the head of the whole sentence), and in is an NMOD (noun modifier of elephant). Once a parse has been found, we can get the parser to look for additional parses. VP -> V NP | VP PP When we do this for sentences involving the word gave, we find patterns such as the following: gave NP gave NP NP gave NP up gave NP NP gave NP to NP Use this method to study the complementation patterns with the verb of interest, and write suitable grammar productions. Come up with your own strategy that you can execute manually using the graphical interface. Let's set our input to be the sentence in (2). The most widely used term in linguistics for formal grammar is generative grammar, though it has nothing to do with generation (Chomsky, 1965). This verb requires both a direct object (the thing being given) and an indirect object (the recipient). Change the second expansion production, namely NP -> Det N PP, to NP -> NP PP. For example, backtracking over VP -> V NP will discard the subtree created for the NP. We won't take a stand on this issue, but instead will introduce the main approaches. Based on these productions, use the method of the preceding exercise to draw a tree for the sentence Lee ran away home. Write a function that takes the tree for a sentence and returns the subtree corresponding to the subject of the sentence. The fact that we can substitute He for The little bear indicates that the latter sequence is a unit. What was more, the in his turn somewhat youngish Nikolay Parfenovich also turned out to be the only person in the entire world to acquire a sincere liking to our "discriminated-against" public procurator. However, if the PP is attached to NP, then it was the man who was in the park, and the agent of the seeing (the dog) might have been sitting on the balcony of an apartment overlooking the park. In the "prepositional dative" form in (19a), the direct object appears first, followed by a prepositional phrase containing the indirect object. Find any cases where the same verb exhibits two different attachments, but where the first noun, or second noun, or preposition, stay unchanged (as we saw in our discussion of syntactic ambiguity in 2). In fact, it grows at an astronomical rate. This is equivalent to saying that a word and all its descendants (dependents and dependents of its dependents, etc.) form a contiguous sequence of words within the sentence. Use timeit to log the amount of time each parser takes on the same sentence. Here are a Very Great Danger during the Terrible Flood, but the only danger he had really been in was the last half-hour of his imprisonment, when Owl, who had just flown up, sat on a branch of his tree to comfort him, and told him a very long story about an aunt who had once laid a seagull's egg by mistake, and the story went on and on, rather like this sentence, until Piglet who was listening out of his window without much hope, went to sleep quietly and naturally, slipping slowly out of the window towards the water until he was only hanging on by his toes, at which moment, luckily, a sudden loud squawk from Owl, which was really part of the story, being what his aunt said, woke the Piglet up and just gave him time to jerk himself back into safety and say, "How interesting, and did she?" When — well, you can imagine his joy when at last he saw the good ship, Brain of Pooh (Captain, C. You can download the paper by clicking the button above. Devise CFG grammar productions to cover some of these cases. The framework of X-bar Syntax is due to (Jacobs & Rosenbaum, 1970), and is explored at greater length in (Jackendoff, 1977) (The primes we use replace Chomsky's typographically more demanding horizontal bars). (Burton-Roberts, 1997) is a practically oriented textbook on how to analyze constructions in English, with extensive exemplification and exercises. In the first, two NPs (noun phrases) have been conjoined to make an NP, while in the second, two APs (adjective phrases) have been conjoined to make an AP. A dependency representation is a labeled directed graph, where the nodes are the lexical items and the labeled arcs represent dependency relations from heads to dependents. 🔍 Extend the grammar in grammar2 with productions that expand prepositions as intransitive, transitive and requiring a PP complement. Although it is possible to convert an arbitrary CFG into this form, we would prefer to use an approach without such a requirement. It generates the same set of parses for a text that the corresponding context free grammar does, and assigns a probability to each parse. >>> tokens = ['fish']*5 >>> cp = nltk.CharParser(grammar) >>> for tree in cp.parse(tokens): ... The purpose of a grammar is to give an explicit description of a language. We can see this in action using the graphical demonstration nltk.app.rdparsert(). Does these improvements depend on the structure of the grammar? There are several recursive productions of the form S -> S and S, as we will explore in 3. Furthermore, it is possible to verb most nouns. Note As we saw in 1, sentences can have arbitrary length. 3 These are templates for taking a sentence and constructing a bigger sentence. b.On land they are (AP slow and clumsy looking). Write a program to scan these texts for any zero. Even complete gibberish will often have a reading, e.g. the a are of I. The last of these is for a sentence of length 23, the average length of sentences in the WSJ section of Penn Treebank. Draw a tree structure for this "compressed" sentence. UPDATED FOR NLTK 3.0. This is a chapter from Natural Language Processing with Python, by Steven Bird, Ewan Klein and Edward Loper, Copyright © 2019 the authors. It is distributed with the Natural Language Toolkit | Version 3.0, under the terms of the Creative Commons Attribution-Noncommercial-No Derivative Works 3.0 United States License [. In other words, it is hard to modularize grammars so that one portion can be developed independently of the other parts. One of the problems with the recursive descent parser is that it goes into an infinite loop when it encounters a left-recursive production. In 10. Third, the backtracking process may discard parsed constituents that will need to be rebuilt again later. 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