

Using jsSyntaxTree

Go to <https://www.ironcreek.net/syntaxtree/> to use André Eisenbach's software live, from his web site.

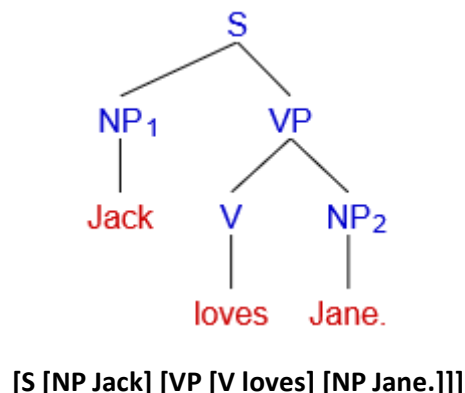
We can download and use his software on our computers by getting his .zip file from <https://github.com/int2str/jssyntaxtree> . The direct download link for the current version is <https://github.com/int2str/jssyntaxtree/archive/master.zip> .

Basic use

Write a bracketed sting to create a syntax tree. For example,

[S [NP Jack][VP [V loves][NP Jane.]]]

will produce this image:



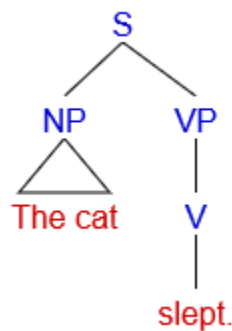
Inside each set of square brackets, we can put a label (such as **NP**) and the lexical item (such as **Jack**). By default, the software will add subscripts (such as **NP₁**), unless we turn off that feature. Brackets inside brackets will generate nodes further down the tree, as we see above with

[level 1 S [level 2 NP Jack] [level 2 VP [level 3 V loves] [level 3 NP Jane.]]]

(We can copy/paste these bracketed strings into Eisenbach's software to generate the trees ourselves, as a way to start learning his software. Pay attention too to his usage tips that rotate through the bottom of the page.)

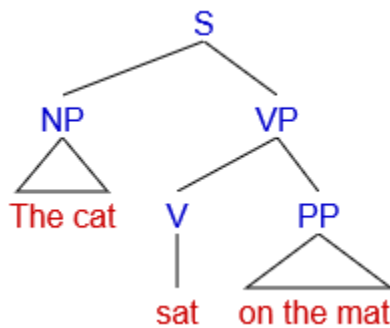
Below are some examples of some basic clause patterns.

An intransitive sentence: S V



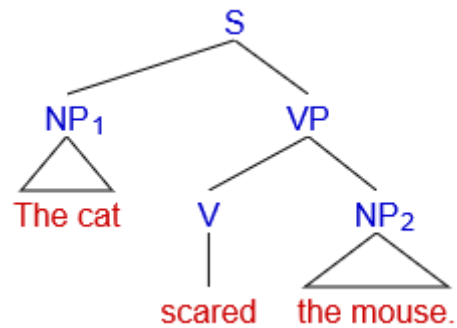
[S [NP The cat][VP [V slept.]]]

An intransitive sentence with an adverbial: S V A



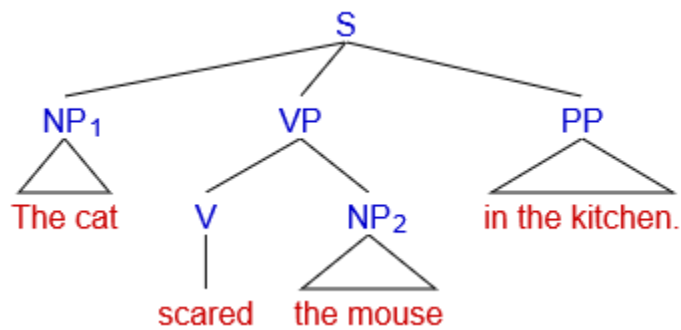
[S [NP The cat][VP [V sat] [PP on the mat.]]]

A transitive sentence: S V O



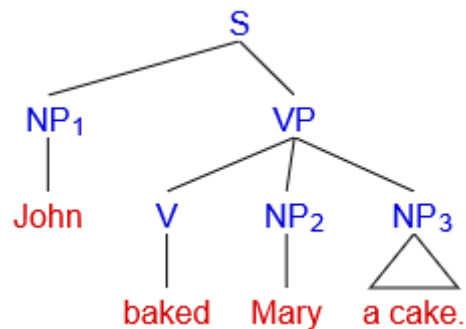
[S [NP The cat] [VP [V scared] [NP the mouse.]]]

A transitive sentence with an adverbial: S V O A



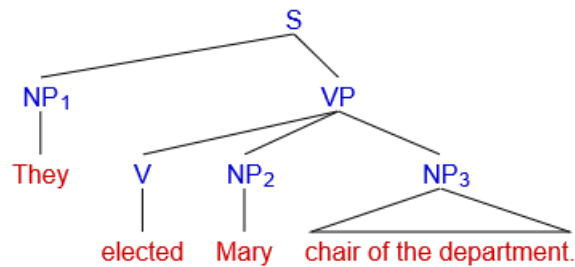
[S [NP The cat] [VP [V scared] [NP the mouse]] [PP in the kitchen.]]

A ditransitive sentence: S V O O

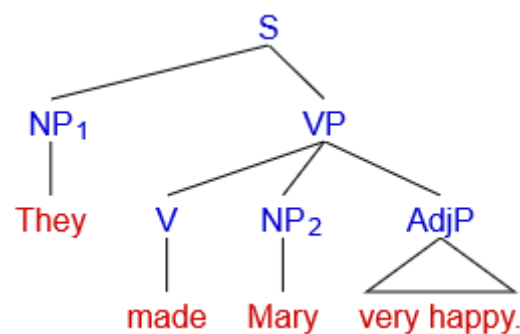


[S [NP John] [VP [V baked] [NP Mary] [NP a cake.]]]

A transitive sentence with an object predicative: S V O OP

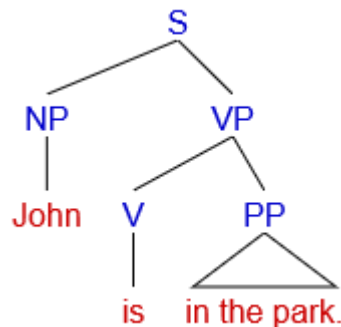


[S [NP They] [VP [V elected] [NP Mary] [NP chair of the department.]]]

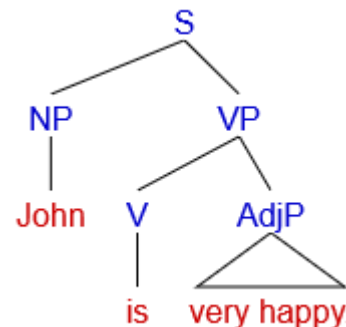


[S [NP They] [VP [V made] [NP Mary] [AdjP very happy.]]]

A copular verb with a subject predicative: S V SP



[S [NP John] [VP [V is] [PP in the park.]]]



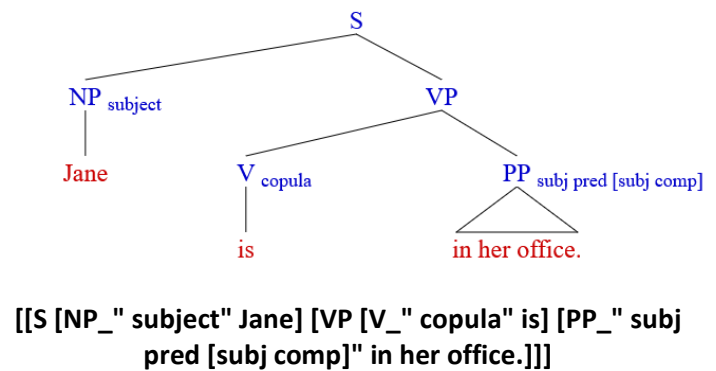
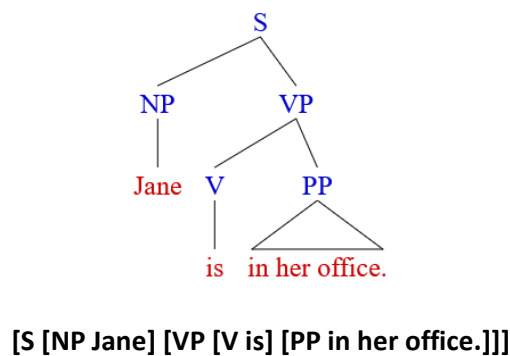
[S [NP John] [VP [V is] [AdjP very happy.]]]

Using quotation marks in jsSyntaxTree

Quotation marks allow us to generate multi-word labels for a node in our trees, as we see in the bracketed string below, on the right.

Creating subscripts

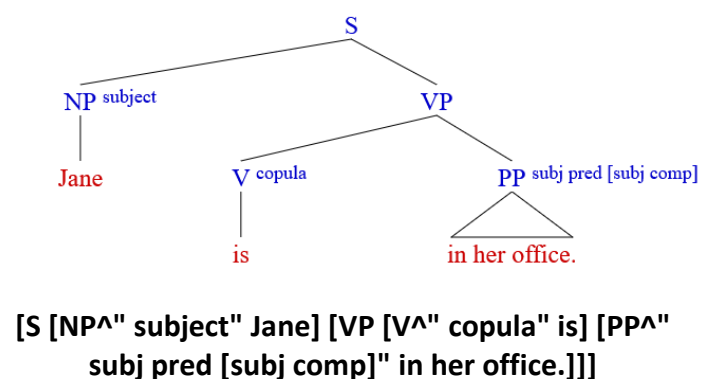
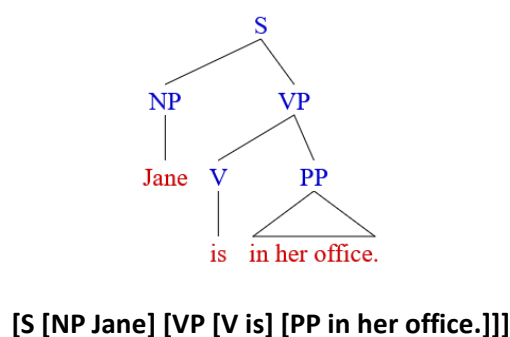
Sometimes, we may want to add labels to the nodes on a tree for clarity's sake. Using an underscore character (`_`) in the node label will create a subscript descriptor of our nodes. Compare:



Notice that we can use the quotation marks feature to create multi-word subscript descriptors for a node.

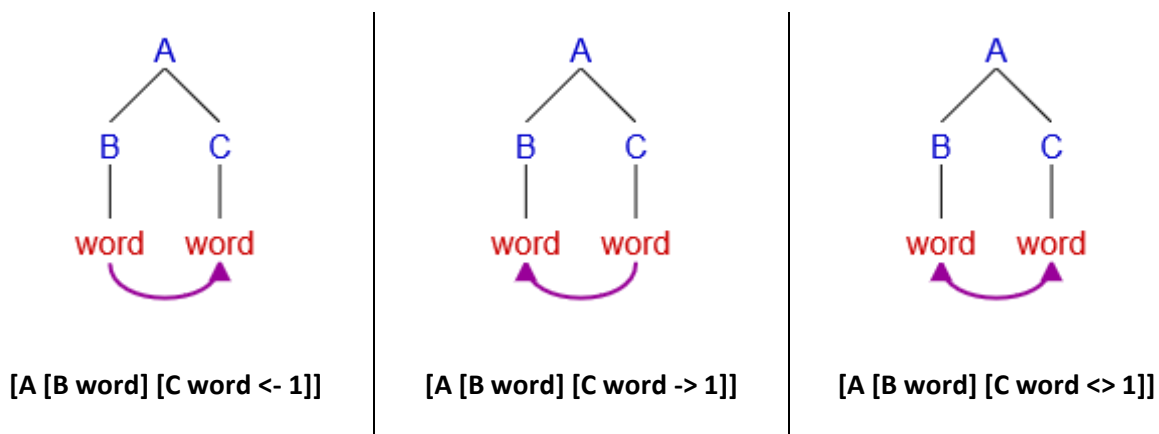
Creating superscripts

Using a caret character (`^`) in the node label will create a superscript descriptor for our nodes. Compare:

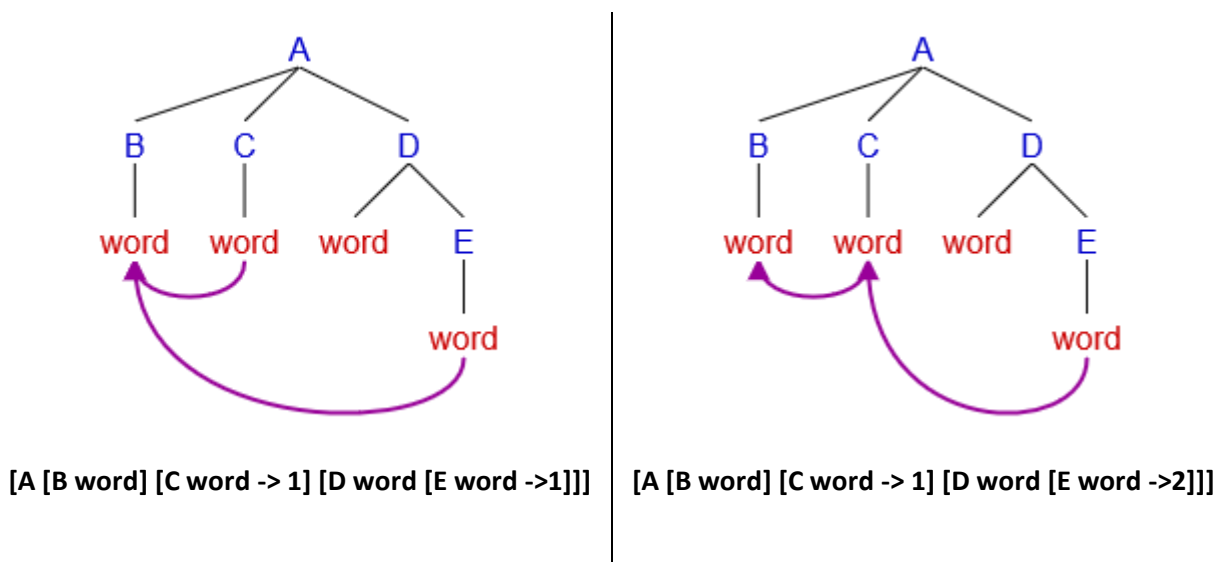


Creating arrows

Sometimes, we might want to show movement from one position to another, or to show that there is a syntactic (or semantic) relationship between two positions. jsSyntaxTree will create arrows for us by adding a bit of code at the end of a bracketed string. To add arrows to a node, use **->**, **<-** or **<>** (for a bi-directional arrow) followed by column number. For example, compare



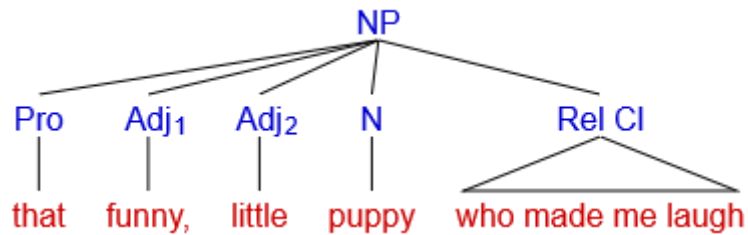
We can even create multiple arrows if we need to, e. g.,



Appendix

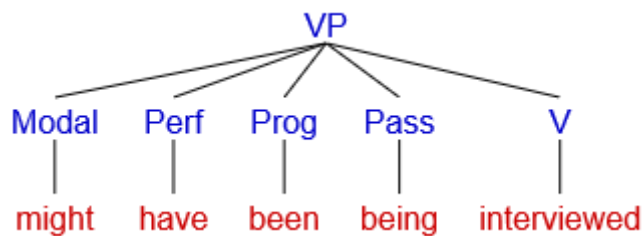
jsSyntaxTree can easily create phrase structure (PS) trees and other kinds of branching diagrams too.

Noun phrases (NPs):



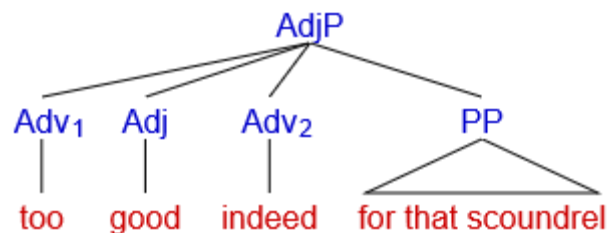
[NP [Pro that] [Adj funny,] [Adj little] [N puppy] ["Rel CI" who made me laugh]]

Verb phrases (VPs):



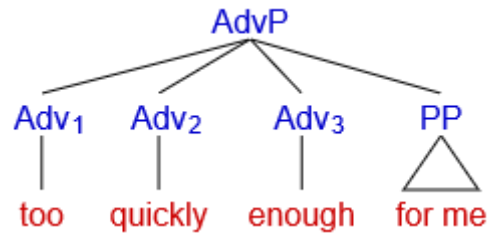
[VP [Modal might] [Perf have] [Prog been] [Pass being] [V interviewed]]

Adjective phrases (AdjPs):



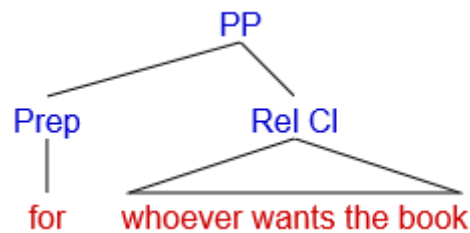
[AdjP [Adv too] [Adj good] [Adv indeed] [PP for that scoundrel]]

Adverb phrases (AdvPs):



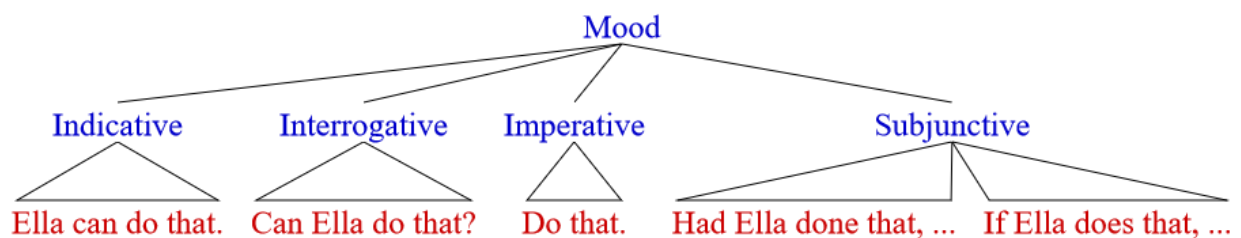
[AdvP [Adv too] [Adv quickly] [Adv enough] [PP for me]]

Prepositional phrases (PPs):



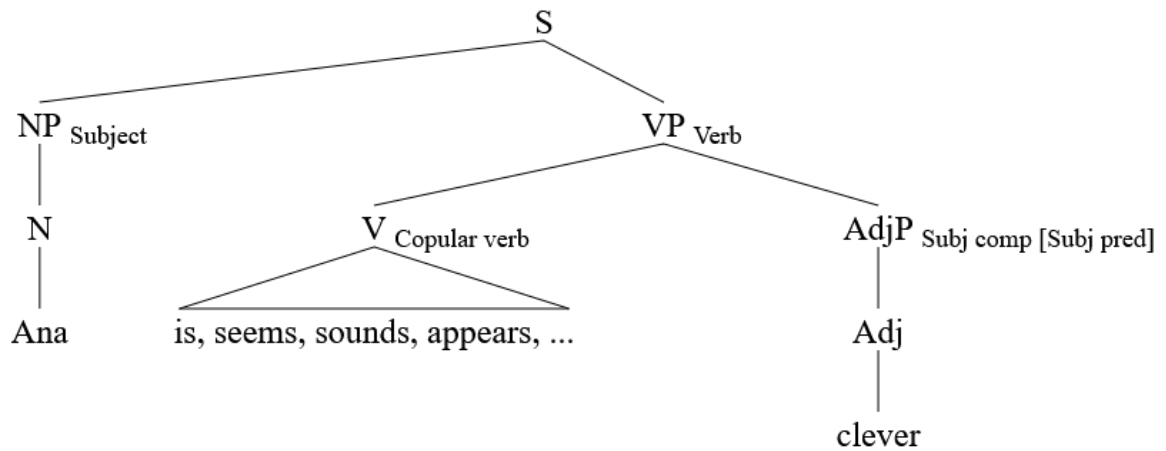
[PP [Prep for] ["Rel Cl" whoever wants the book]]

We can also use jsSyntaxTree to create miscellaneous branching diagrams:



[Mood [Indicative Ella can do that.] [Interrogative Can Ella do that?] [Imperative Do that.] [Subjunctive "Had Ella done that, ..." "If Ella does that, ..."]]

Option used above: serif font.



**[S [NP_ " Subject" [N Ana]] [VP_ " Verb" [V_ " Copular verb" is | seems | sounds |
appears | ...] [AdjP_ " Subj comp [Subj pred]" [Adj clever.]]]]**

Options used above: serif font and no color.