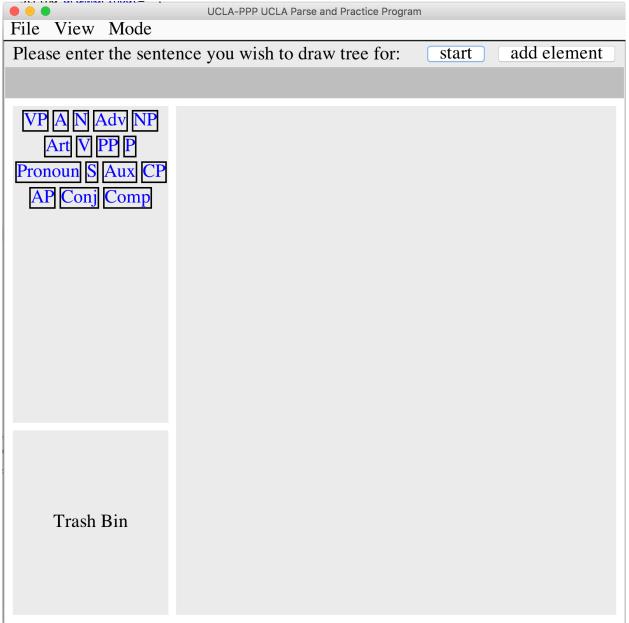
20160627 UPDATE

- 1. Now the program has two modes.
 - a. User can switch the two modes via the menu bar Mode-> Tree Drawing -> pick one



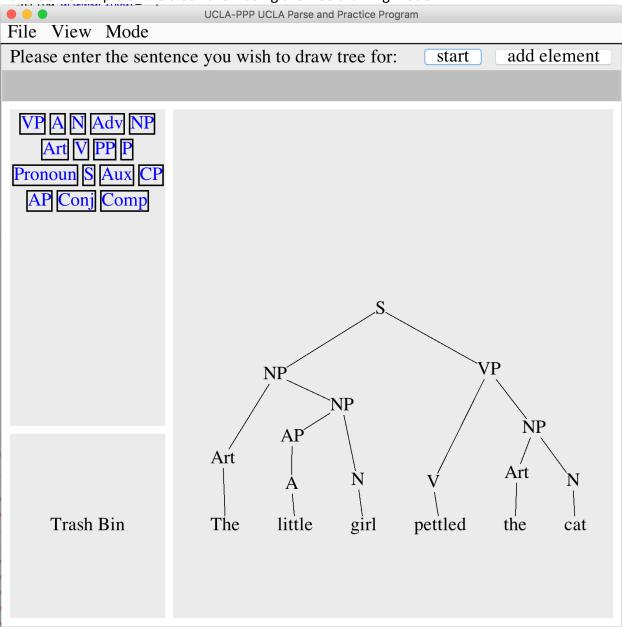
b. The default mode "Free Drawing": draw tree in free style by adding sentence elements and dragging nodes.



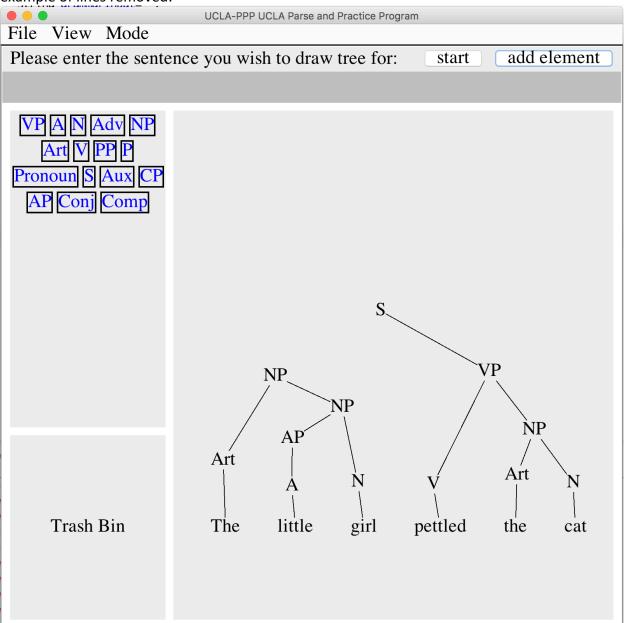
• Every time new grammar is successfully imported, the nodes on the left edge will be updated accordingly.

- User can add the sentence they want to build tree for to the drawing board by typing in the sentence
 and press "start": the drawing board will be cleared, the words in the sentence will be added to the
 screen and they are all movable by dragging.
- User can add elements to the drawing board by type in elements and press "add element": the drawing board will not be cleaned and the elements typed in will be added additionally.
- After having the nodes and words in the drawing board, the user can connect two nodes by clicking
 two nodes: the first node clicked will be marked as red to remind the user which node he/she has
 already clicked. The user can remove the line by clicking two nodes already connected.
- The user can remove a node and the line which the node is connected to by dragging the node into the "trash bin" area.
- All nodes and words in the drawing board is movable and the lines will change position simultaneously when the nodes change position.

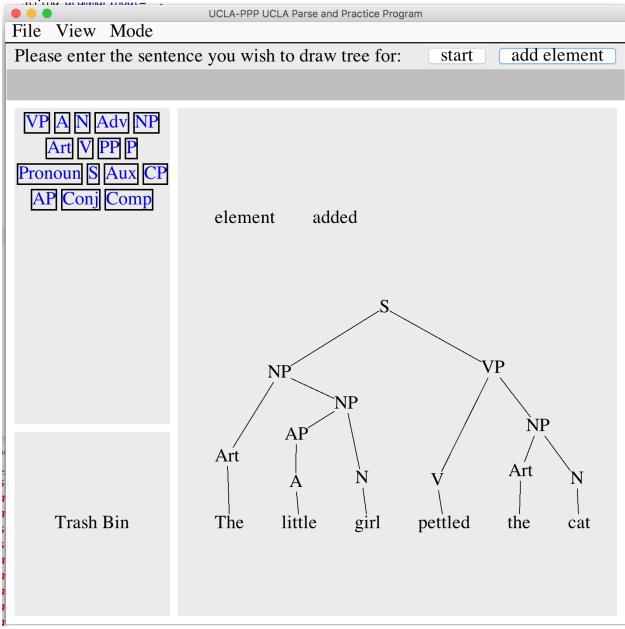
Here is an example of the tree I drew using the free drawing mode:



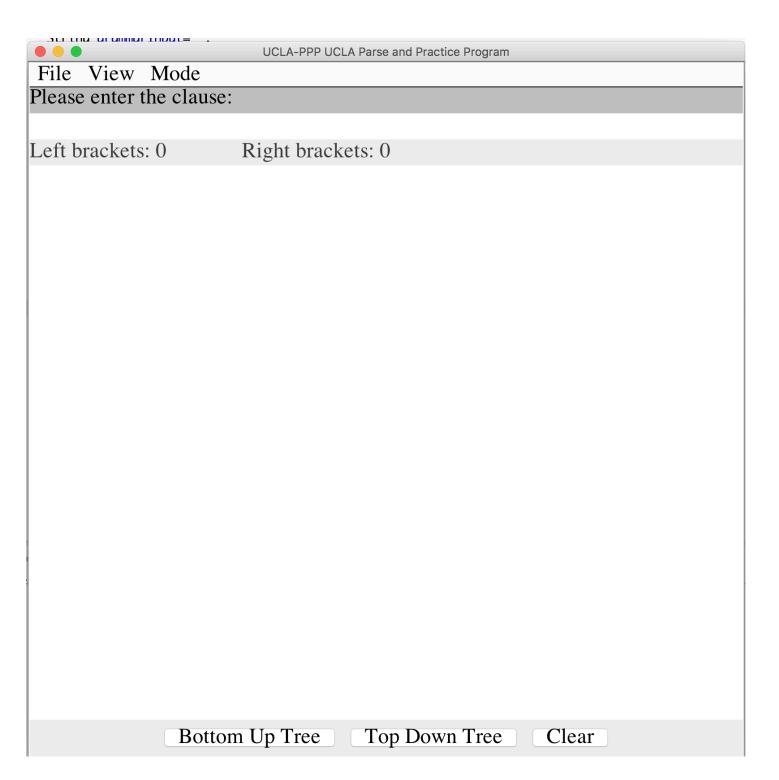
example of lines removed:



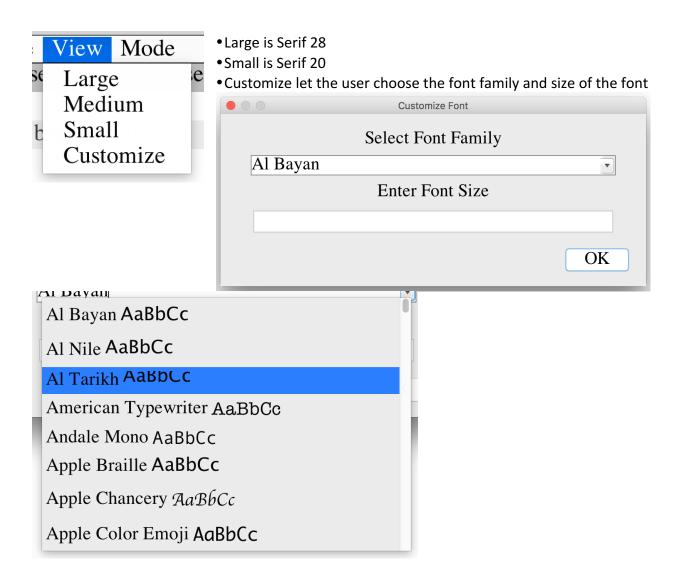
example of elements added:



- c. The second mode "Clause Entering": draw tree by entering the clause.
 - i. Update1: the layout in this mode is updated so that each bar's height does not influence each other as before.
 - ii. Update2: the + buttons are removed and replaced by the items in the menu bar, which will be explained later.



- 2. Now the user has more choices of the font of the whole program. The "view" menu takes care of this.
 - Medium is the default font, which is Serif 24,



- 3. Updates on importing grammar:
 - a. Now the import grammar file supports all ->, -->, : as indicator of rules.
 - b. Tonight I should finish letting the program recognize { } as an indication of option.