SPC-DT Feature Wishlist

1. Minimize overlap of individual plots automatically (ideas)
2. Condense points that are near the center (i.e.,not edges) of rectangles. Coding
3. Resizable window (Coding)
4. Add frames between gray areas (Coding)
5. Confusion matrix pop out window for larger number of classes (Coding)
6. Show/output the worst-performing rectangle and cases that end up in it
   1. Auto-select decision area with the lowest purity (most misclassified) ideas not too small). (adjustable threshold for size)
7. Mark rectangles/cases as unclassifiable and/or need more data (new conceptually, refuse)
   1. Mark borderline cases that need more information (borderline)
8. User add a classification zone (N/A,. Cross area)
9. “Create case” where the user can enter/create their own case
10. Design new rules based on selection rectangle (DT generalization)
11. Output the decision tree with adjusted thresholds (store the result)
12. Fix zoom / pan (Coding)
13. Remove unnecessary buttons (Coding)
14. Make background density coloring change while adjusting thresholds (Coding)
15. While drawing a rectangle, leave markers behind to tell where clicked points are.
16. Make user-drawn rectangles draggable (activation point)
17. Fix button active states (GUI)
18. Put project on research assistant GitHub (nonexistent at the time of writing)
19. Make documentation
20. Experiments with new data
21. Support DTs with more than two branches
22. Random Forest: (generate logical rules that don’t have a shared root, ideas)
23. Make GitHub Organization
24. Make single attribute plots one-dimensional (no pairing) (coding)
    1. Make sure that vertical/horizontal spread is considered.
    2. Make sure swapping/inverting still work
25. Make zones object oriented
26. Remove white zones on plots
27. Add “help mode” that makes every button pressed display a help message for that button. (coding)
28. Migrate parser generator to C++ for integration in the program. (coding)
    1. Read from Tanagra and JSON
29. Save decision tree as Tanagra out and JSON out

IN PROGRESS

1. Rectangles (6, 7, 8)
2. Brainstorm automatic overlap minimization ideas
3. Resize window
4. Make zones object oriented

TODO LIST

1. Fix sues with mushroom dataset

For 1 negate vertical coord.