

# Stat645

Introduction to the tour

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# Hints

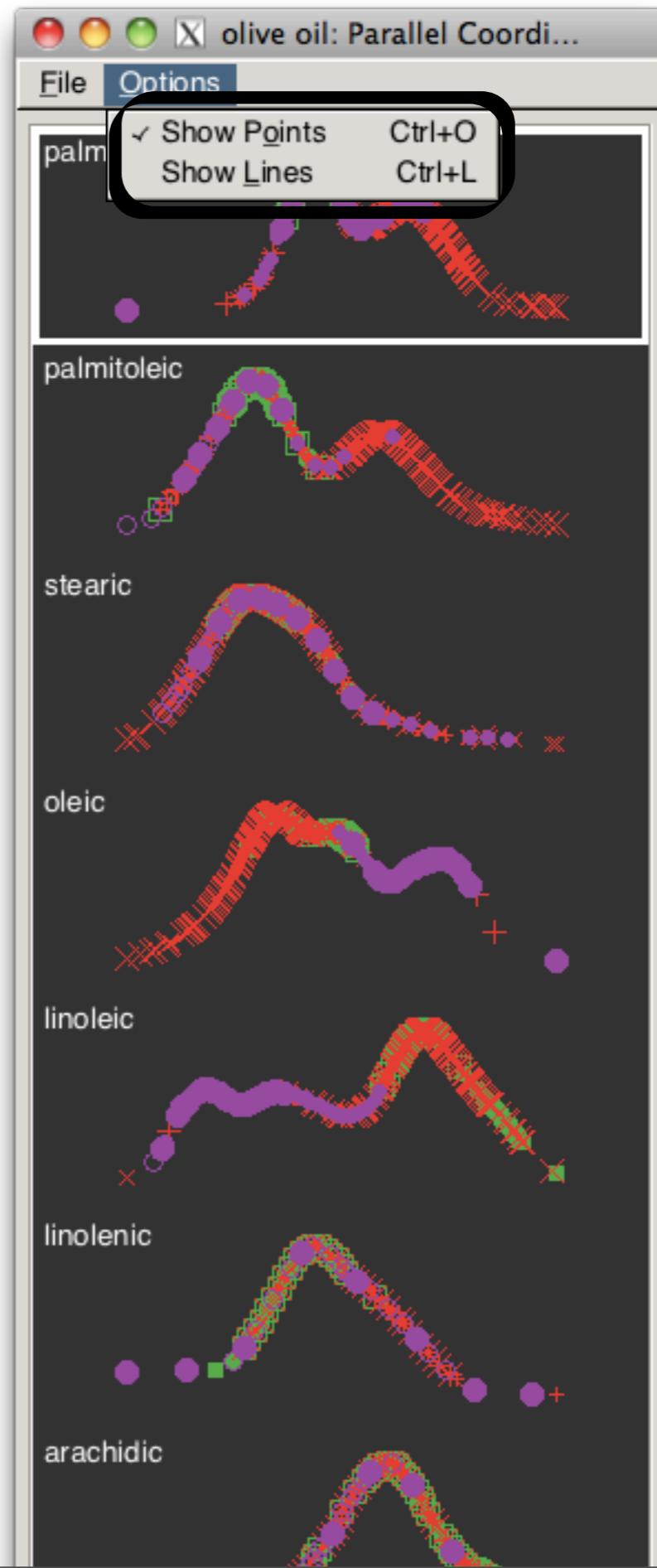
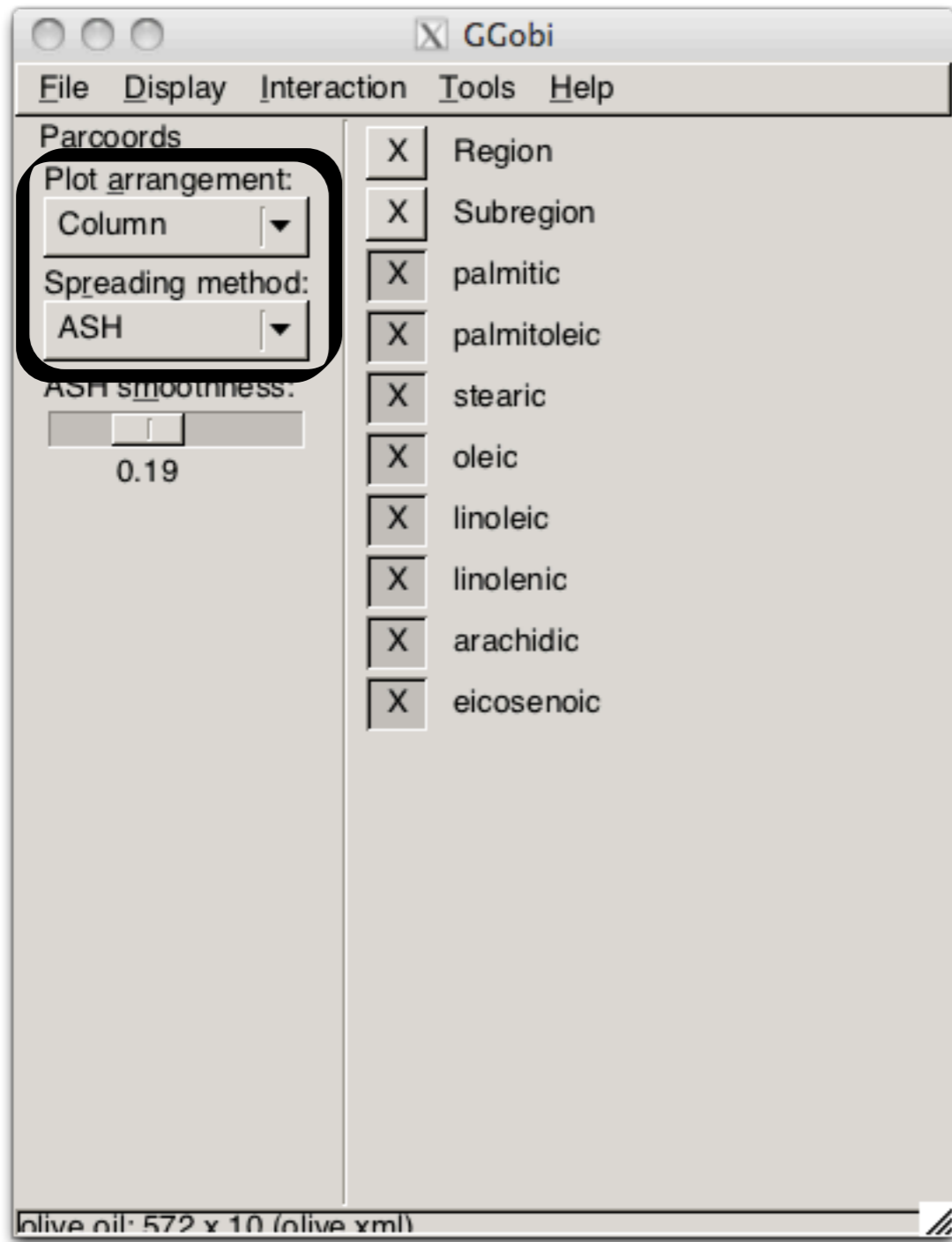
- Open a new ggobi between each dataset (otherwise ggobi thinks you want to combine them)
- Use Ctrl + a to add an axis to the tour
- Make sure you don't include categorical variables in the tour

# Olives

- What 1d combination of variables best separates the classes?
- What 2d combination?
- What 3 variables does the best job of separating the regions?

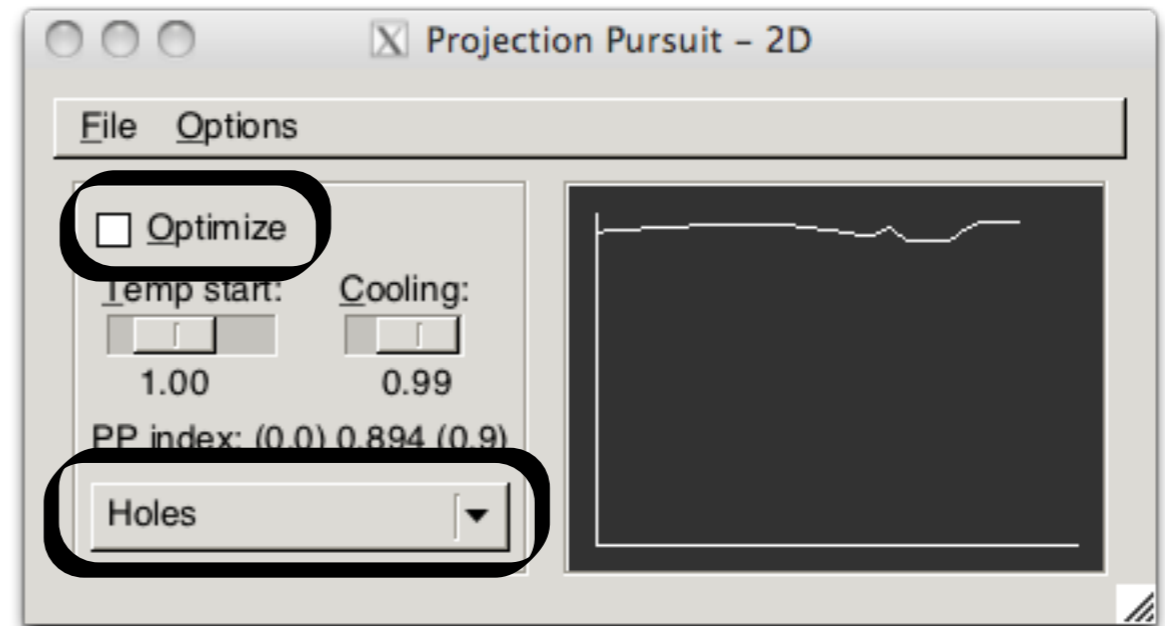
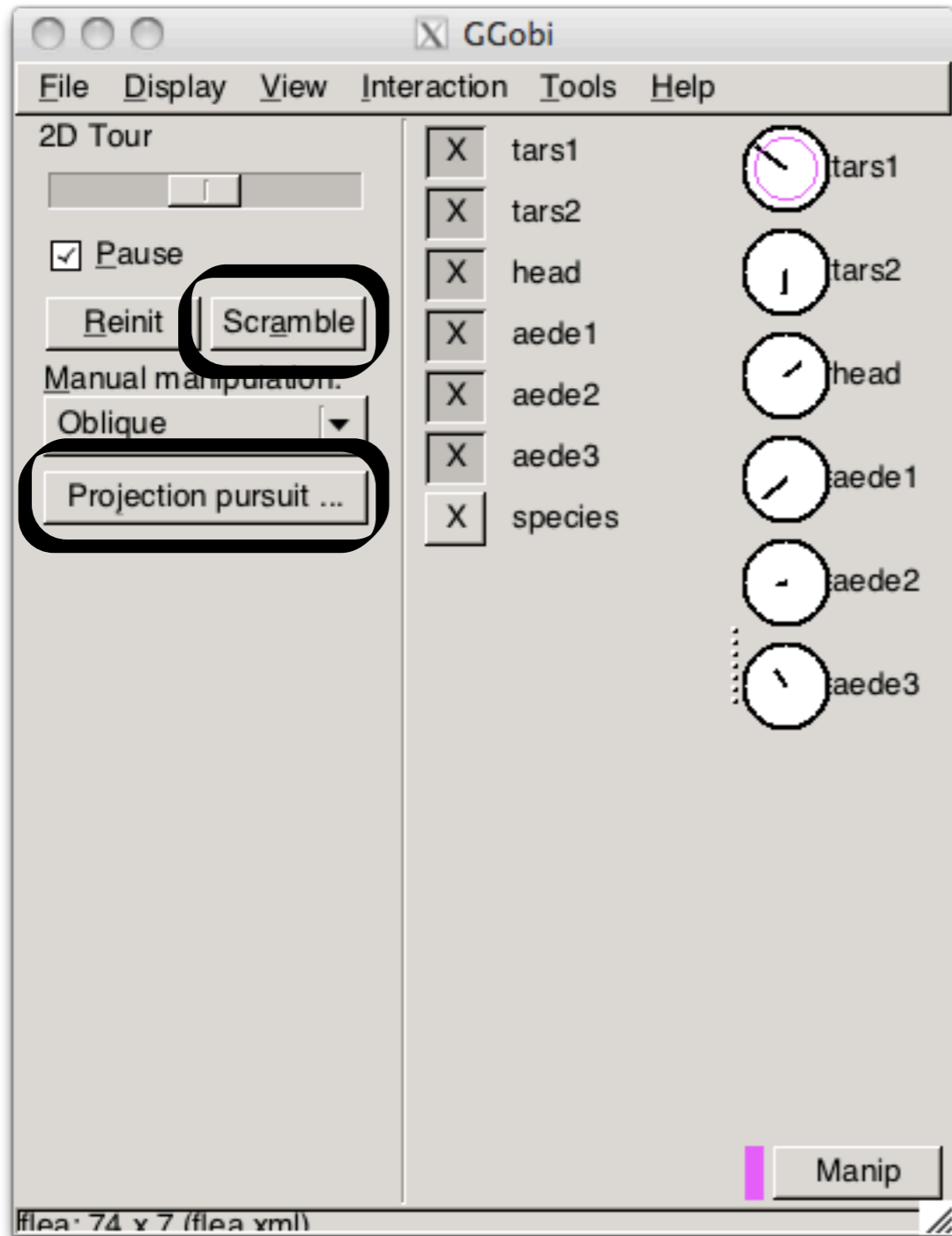
# Olives

- PCP
- Scatterplot matrix
- 1d tour
- 2d tour



# Flea

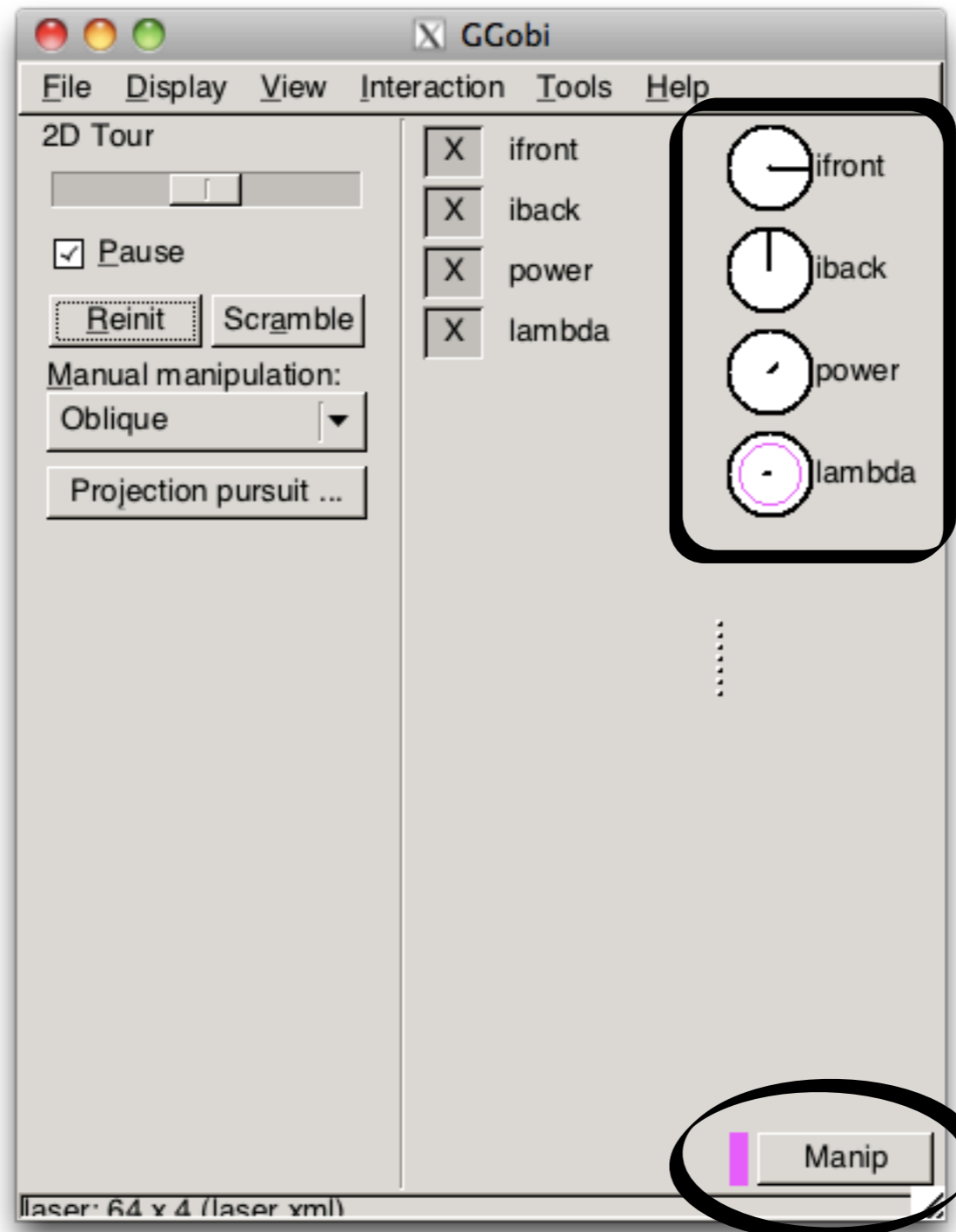
- What combination of variables does a good job of separating the three species?
- Try using the guided tour (project pursuit) with the holes or LDA indices
- If you get stuck in a local optima, use scramble to break out



# Laser

- Use manual controls to re-create the displays we saw last week
- The active variable has a purple circle around it
- Metaphor: think that there is big stick poking out of the screen and you are dragging on the end of it
- Wiggling helps to understand the shape





# Prim7

- Start with `prim7.csv`. This is a 7 d particle physics dataset.
- What shape is it? Using brushing to colour the clusters you identified
- Compare your findings to `prim7.xml`

# Expo

- Create a plot that shows time series of pressure for each location (use the next plot to calibrate)
- Experiment with other variables
- Hint: use persistent brushing to resize all points to the smallest possible.

