

# CSc 44700

## Assignment due October 13, 2020

- **Compete the programming exercise described in the following charts.**
- **Start looking for an interesting dataset for your project.**

# Programming Exercise

- Download the decision tree code with three categories that we reviewed in class.
- Extend the code to include the case of **learning a triangle with interior angles of  $27^\circ$ ,  $63^\circ$  and  $90^\circ$ .**
- It's up to you how you define the regions for each category but try and make it interesting.

# Programming Exercise

- Plot your training data using a different color for the points in each of the three categories.
- Discuss your findings.
- Include all of your discussion in your .ipynb file and submit the file through Blackboard. The name of your file should be `lastname_firstname_AS03.ipynb`
- Do not clear your results after you last run so that I will be able to see your results without rerunning your code.
- If you collaborate with anyone on this assignment, be sure to follow the collaboration guidelines in the syllabus.