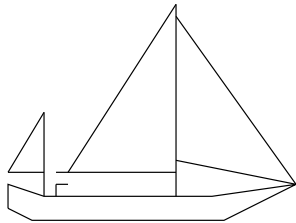


COSC 387 Homework #3 (Optional)

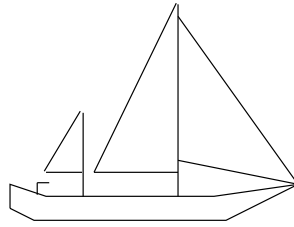
Fall 1998

1. The sailboats picture below are divided into two classes: jib-headed boats and gaff-headed boats. Represent each in an appropriate representation and apply the ID3 learning algorithm.

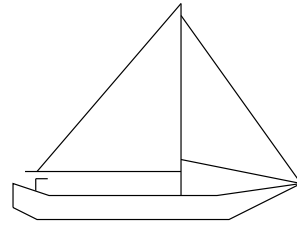
Jib-Headed Sailboats



Jib-Headed Yawl

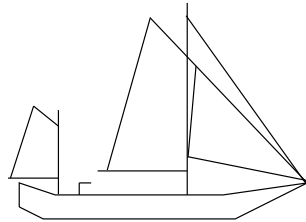


Jib-Headed Ketch

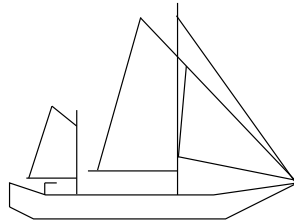


Jib-Headed Sloop

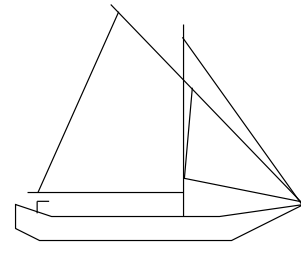
Gaff-Headed Sailboats



Gaff-Headed Yawl



Gaff-Headed Ketch



Gaff-Headed Sloop

2. Using the sailboats from the previous problem, repeat the problem using the perceptron learning algorithm. Iterate through the training examples once (i.e., $p = P$).