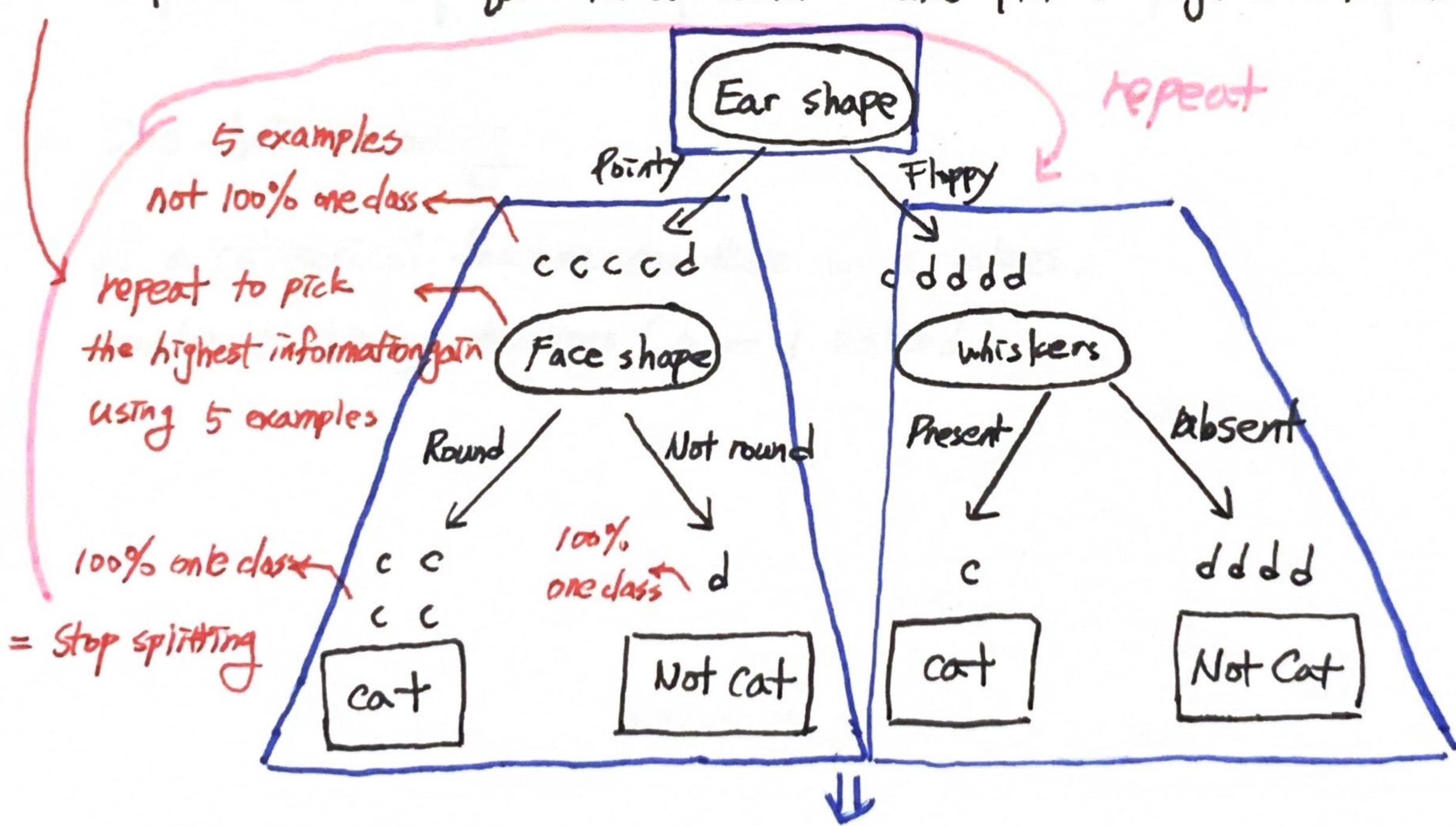
## statulululululul

- < Peciston Tree Putting it together >
- \* Overall process for building decision tree
- 1) Start with all examples at the root node
- 2 Calculate information gain for all possible features, and pick the one with the highest information gain
- 3 Split dataset according to selected feature, and create left and right branches of tree
- 1 Keep repeating splitting process until stopping critteria is met:
  - When a node is 100% one class
  - When splitting a node will result in the tree exceeding a maximum depth
  - Information gain from additional splits is less than threshold
  - When number of examples in a node is below threshold.
- \* Recursive Splitting
- ex) if i choose stopping criteria as when a node is 100% one class
- O compute information gain for all features and pick the highest information gain = Ear shape



"Recursive algorithm"

= the way you build the decision three at the root
is by building other smaller decision threes in sub-branches