accellilian.

< Decision Tree - Continuous valued features>

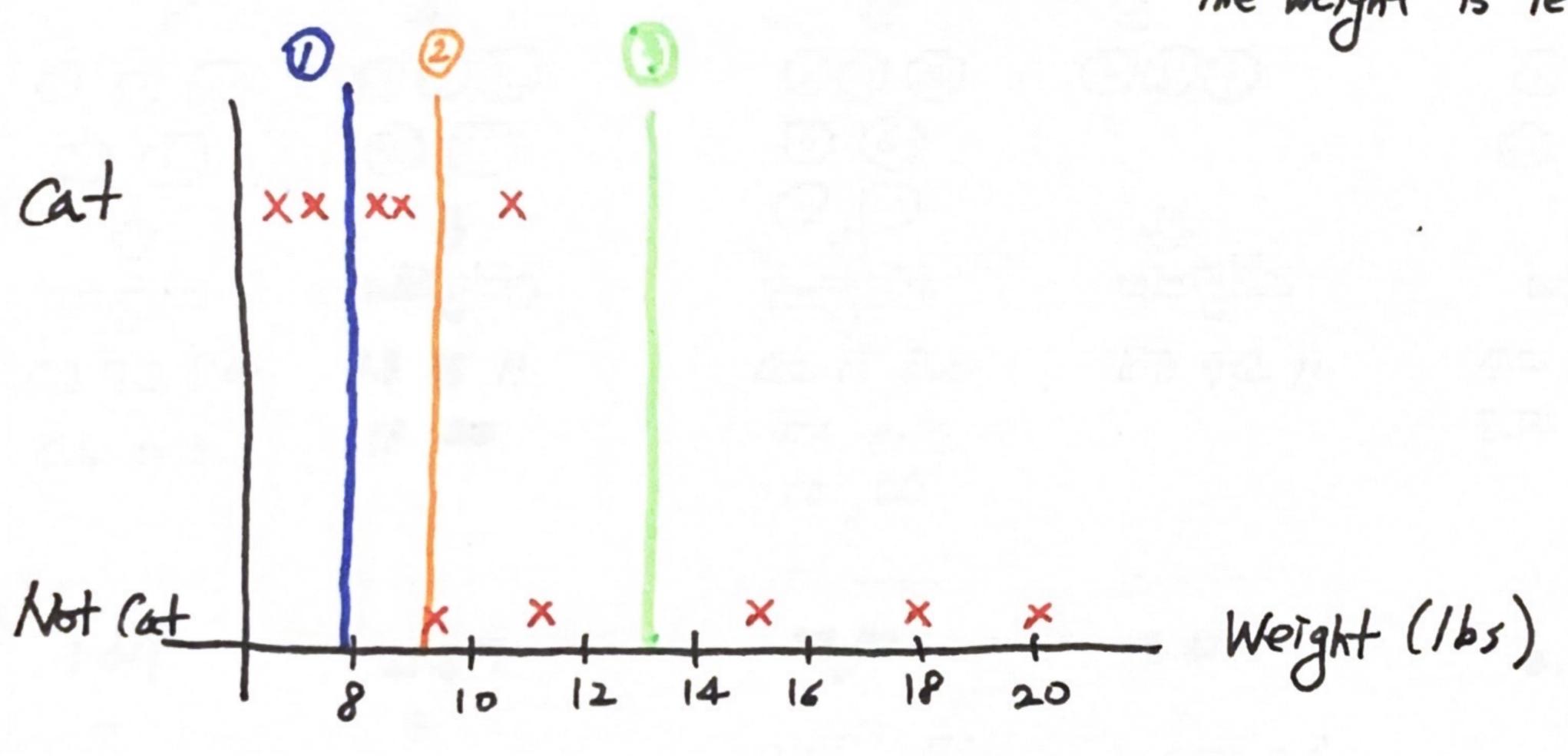
- not just déscrate number but continuous value that is features can be any number

ex)	Continuous					value	
	Ear shape	Face shape	Whiskers	Weght (165)	Cat		
0	Pointy	Round	Resent	1.2	,		
2	Floopy	Not nound	Present	1.8	1		
3	F/appy	Round	Absent	15	6		
					•		

* Spitting on a continuous variable

- the may to split on the weight feature

compute entropy based on whether or not the weight is less than or equal to some values



- ① weight ≤ & lbs ⇒ H(0.5) (元H(三)+ 由H(注)) = 0.24
- (3) Weight < 131bs => H(0.5)-(-10)+3H(-10) = 0.40

weight < 9165
Yes No C C d d d d d

* Summarize *

decision tree with continuous
value

- 10 try different threshold
- @ do information gain abulation
- 3 Split on the continuous value
 feature with with the
 selected threshold
 which gives the best
 information gain