# Celebrity Heads Just add Computer Science!



#### What do Decision trees do?

We can use them for classifying things!

You just need to ask a series of questions to narrow down the possible answers

What animal am I thinking of?











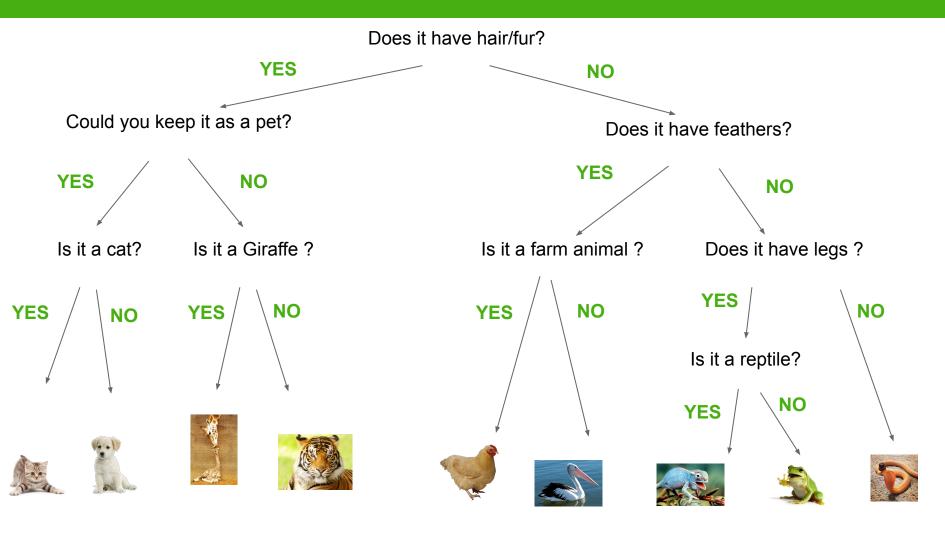




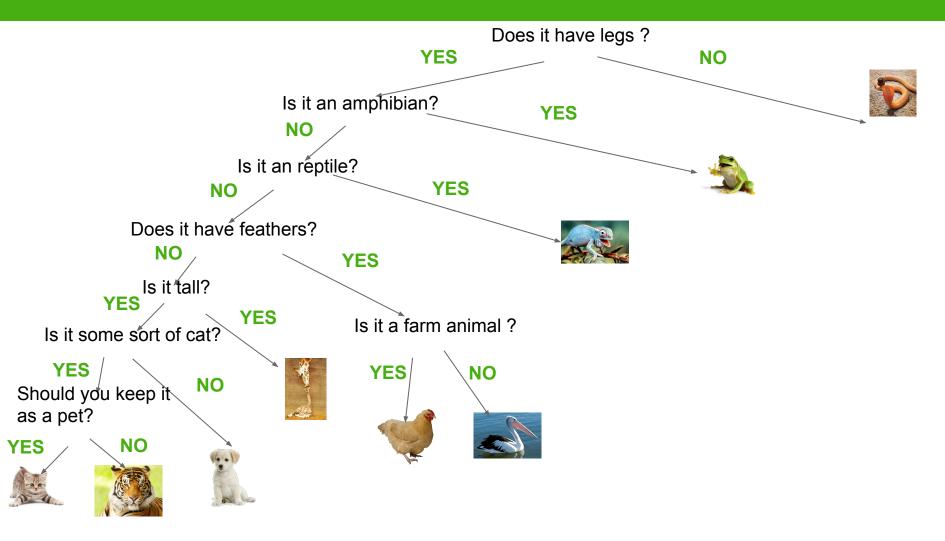


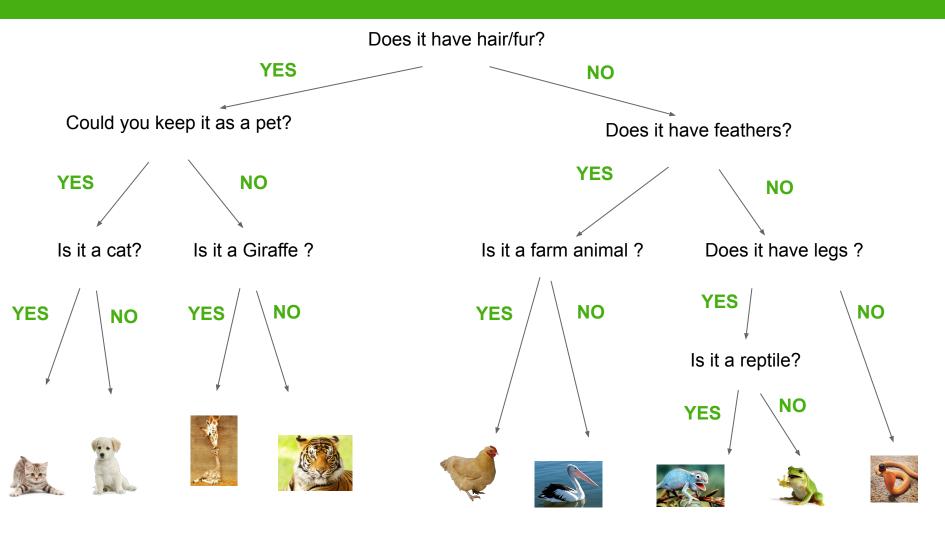


# What animal am I thinking of?

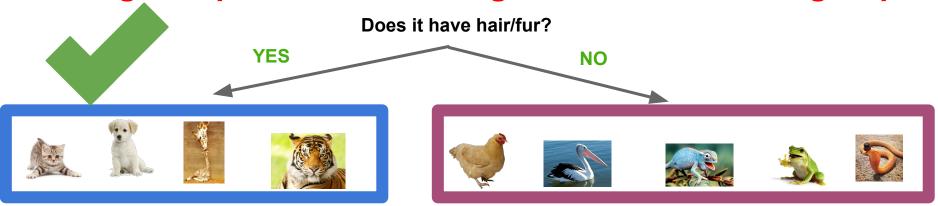


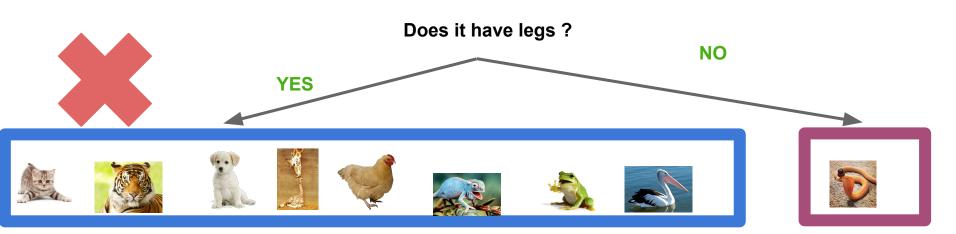
# What animal am I thinking of?





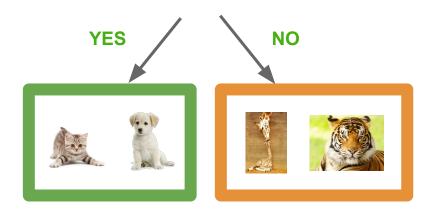
#### Ask good questions, at the right time to halve the group





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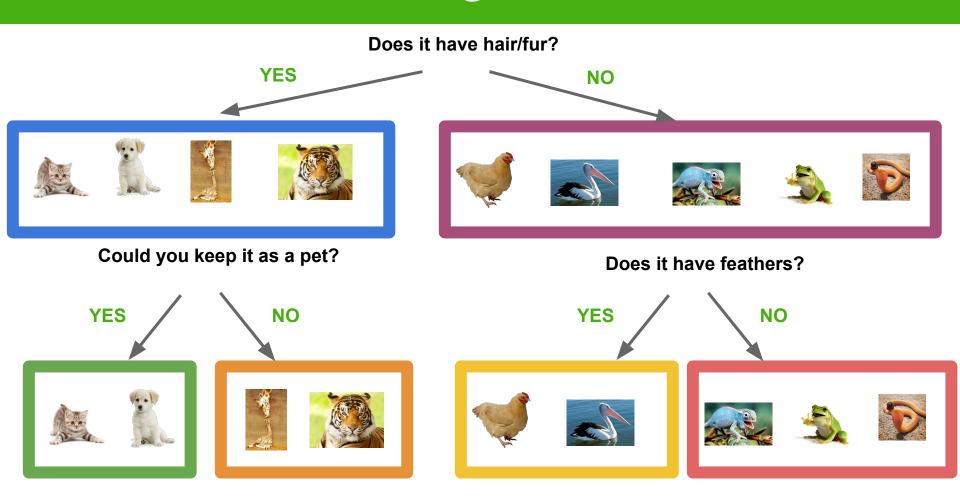
Could you keep it as a pet?



#### Repeat for each half!

Now you've ruled some out from the blue group maybe some different questions are useful.





## Celebrity Heads Algorithm!

#### Make a Celebrity Heads algorithm using decision trees!

Guess any celebrity with the fewest questions possible! Call a tutor over to play when your algorithm is ready!

#### Remember to:

- Ask good questions for splitting!
- Make a balanced tree!

