



What is artificial intelligence?

Traditional software



RULES



Traditional software

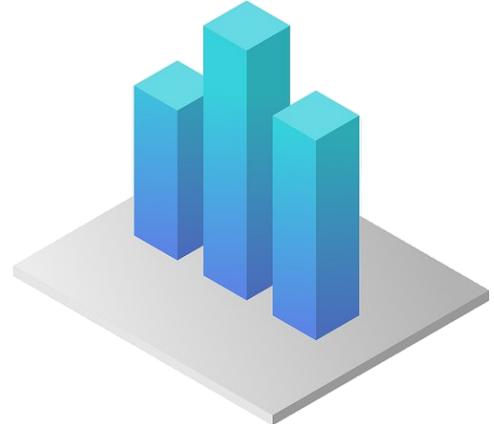
Traditional software



RULES



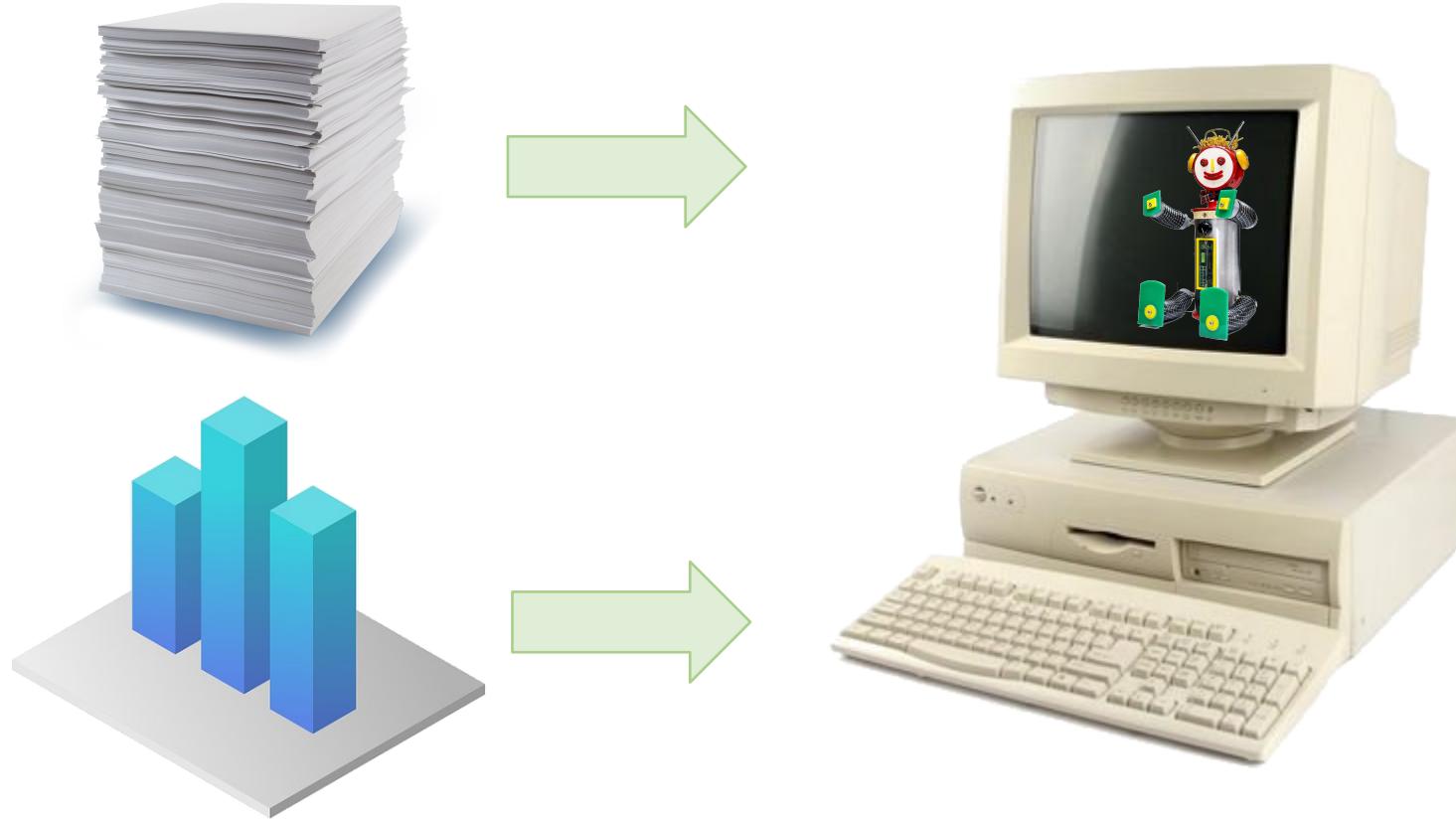
Traditional software



Artificial intelligence



Artificial intelligence



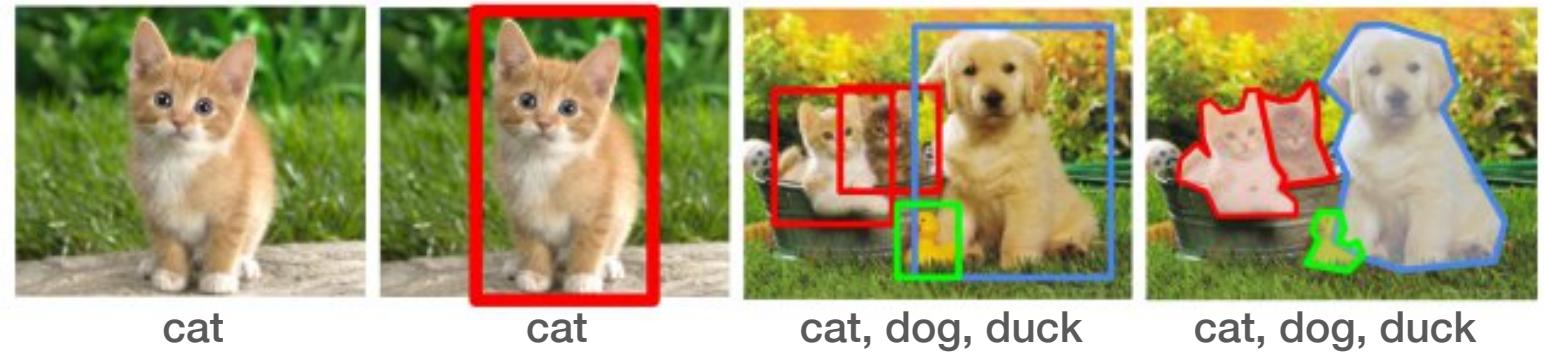
Artificial intelligence



Examples

Image recognition

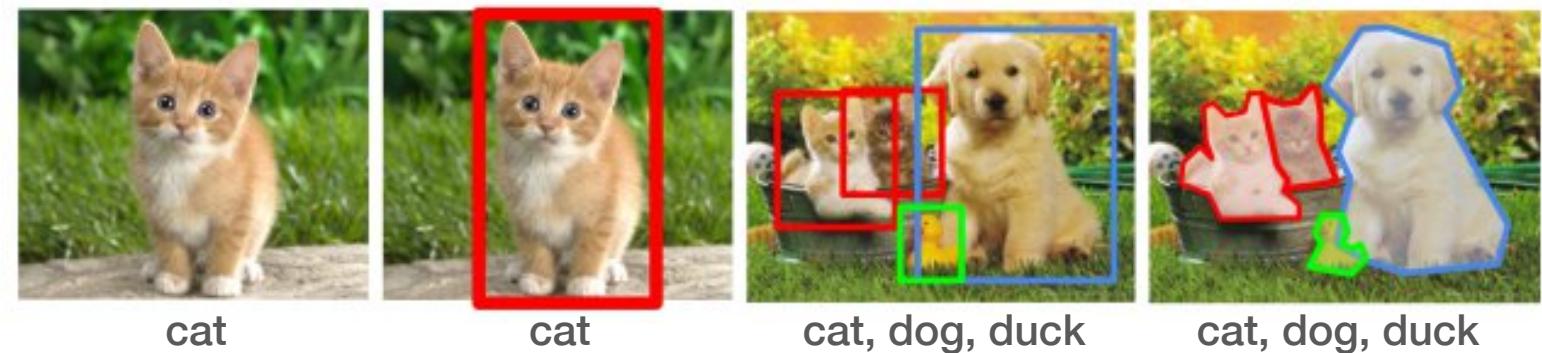
Examples



Examples

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Image recognition

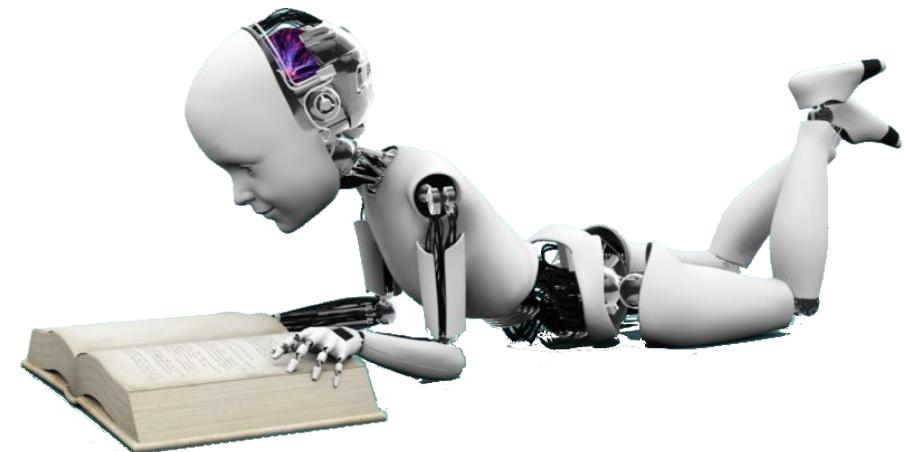


Language processing

A screenshot of a language translation interface. At the top, there are tabs for 'TAAL HERKENNEN' (Dutch), 'ENGELS' (English), 'NEDERLAND' (Dutch), and 'DUITS' (German). Below this, the English sentence 'I am a nurse' is shown, followed by a German translation 'Ich bin eine Krankenschwester'. There are also icons for audio playback, a progress bar (12/5000), and additional options.

How does artificial intelligence learn?

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Artificial intelligence in health care

What is an algorithm?

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What is an algorithm?

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Steps required to achieve a set goal.



What is an algorithm?

ECARe

Steps required to achieve a set goal.

$$4 + 8 - 1 = 11$$



What is an algorithm?

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Steps required to achieve a set goal.

$$4 + 8 - 1 = 11$$



Easy pancakes

By [Cassie Best](#)

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Prep: 10 mins
 Cook: 20 mins
Plus optional standing

Easy

Makes 6

Learn a skill for life with our foolproof crêpe recipe that ensures perfect pancakes every time – elaborate flip optional



* Freezable Healthy

Nutrition: per pancake

kcal	fat	saturates	carbs
61	2g	1g	7g
sugars	fibre	protein	low in
1g	0g	3g	salt 0.1g

Save recipe

Print

What is an algorithm?

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Algorithms in AI:

- Decision trees
- Support vector machines
- K-means clustering
- Linear regression
- Logistic regression
- Random forest
- K-nearest neighbour
- Naive Bayes
- Gradient boosting
- Artificial neural networks
-



What is an algorithm?

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Algorithms in AI:

- **Decision trees**
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-

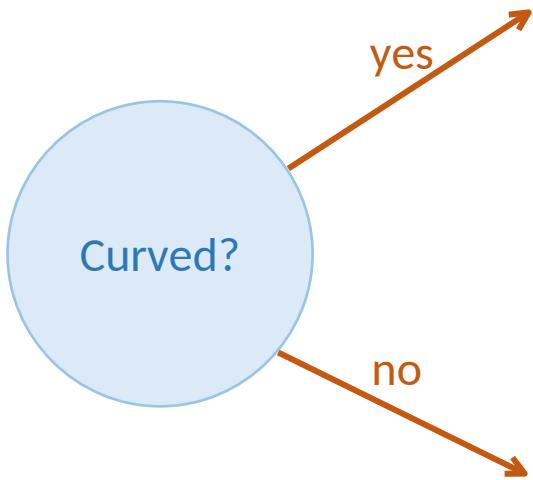


What is a decision tree?

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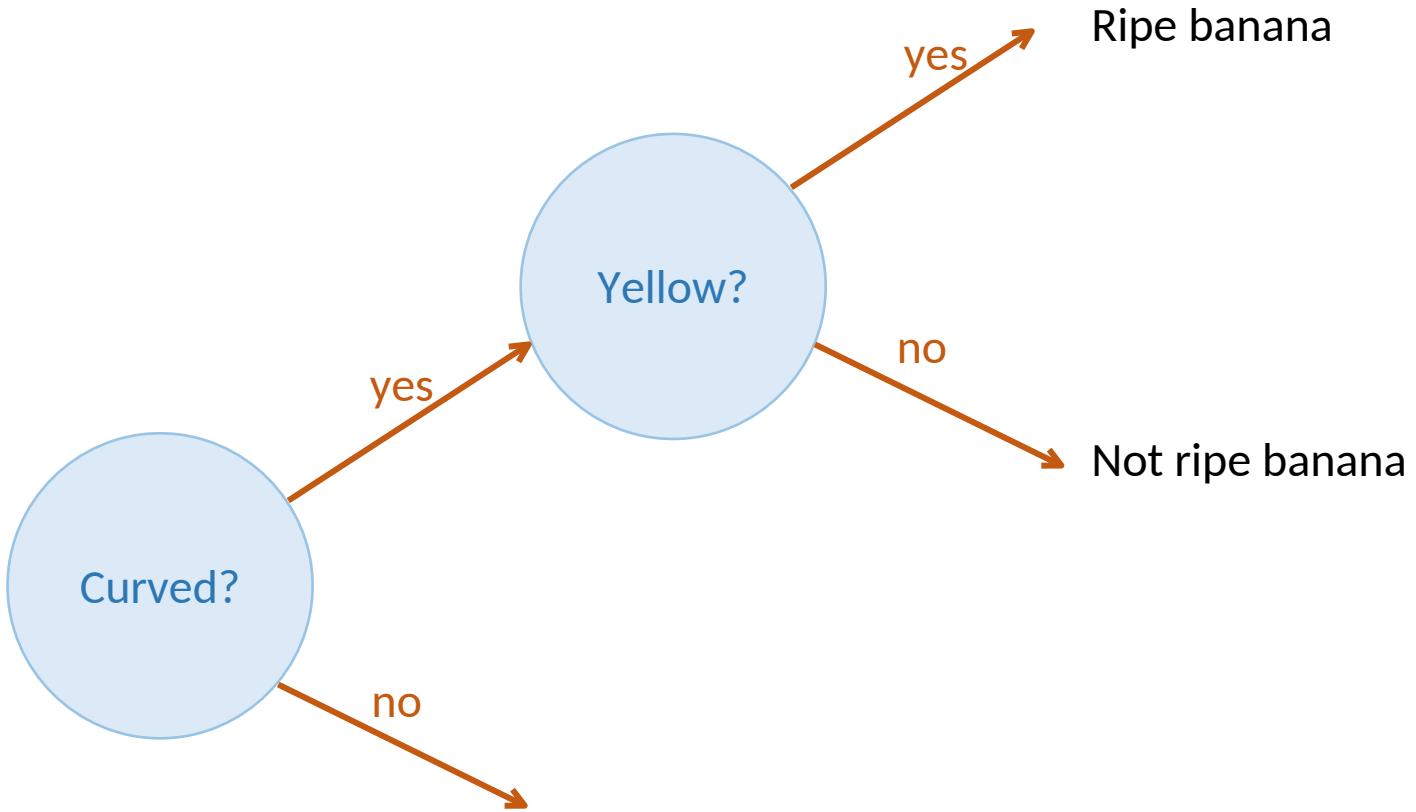
What is a decision tree?

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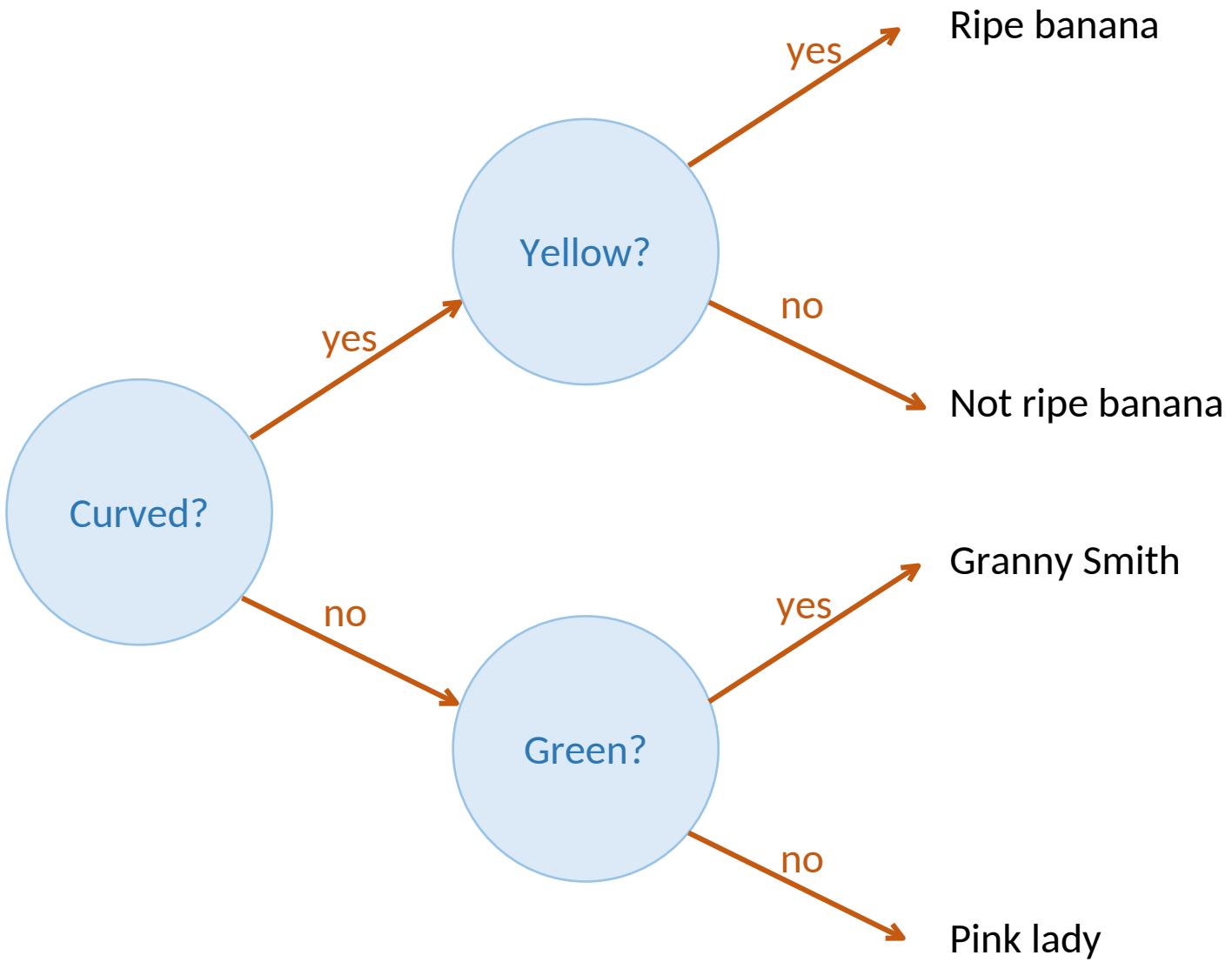
What is a decision tree?

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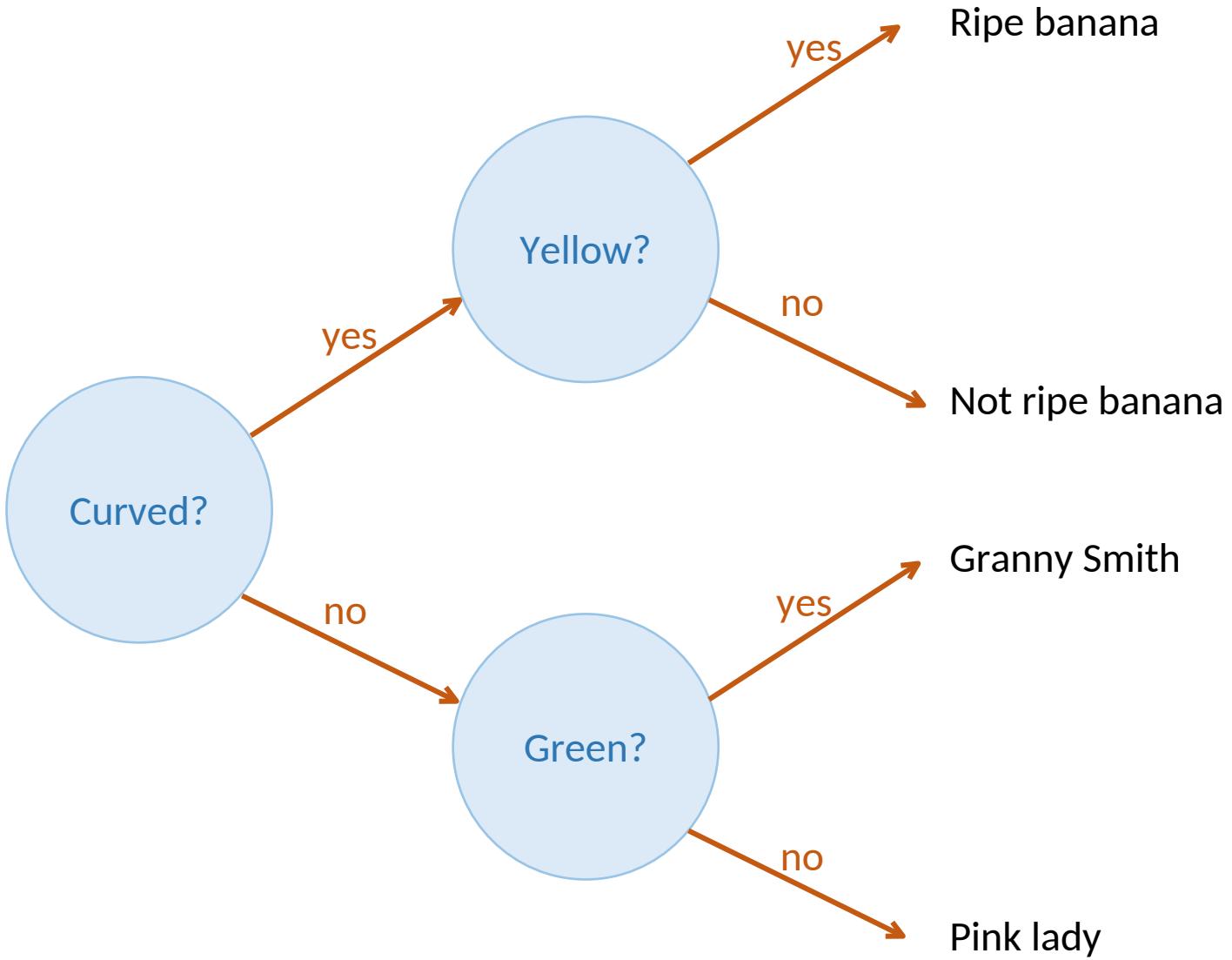
What is a decision tree?

ECARe



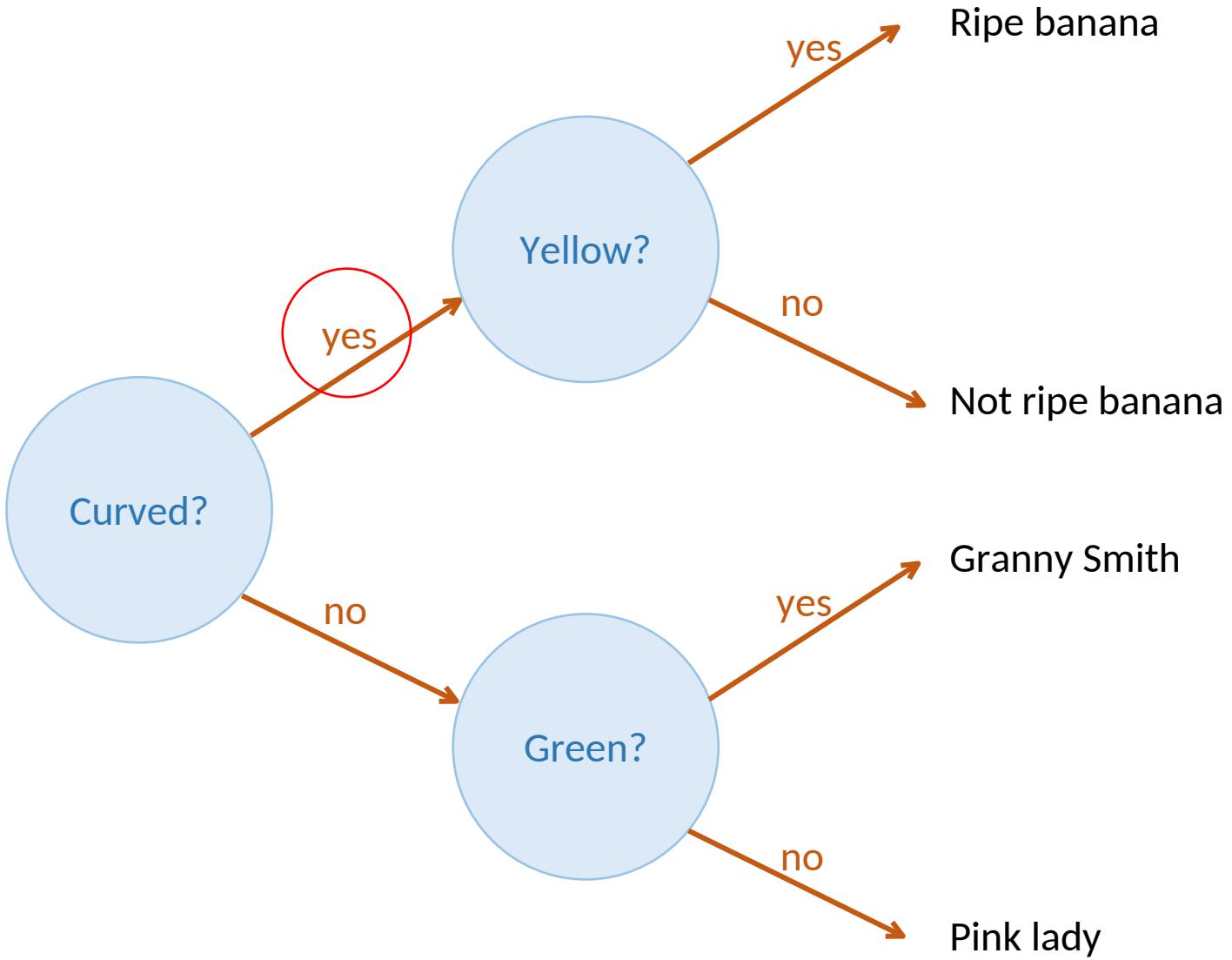
What is a decision tree?

ECARe



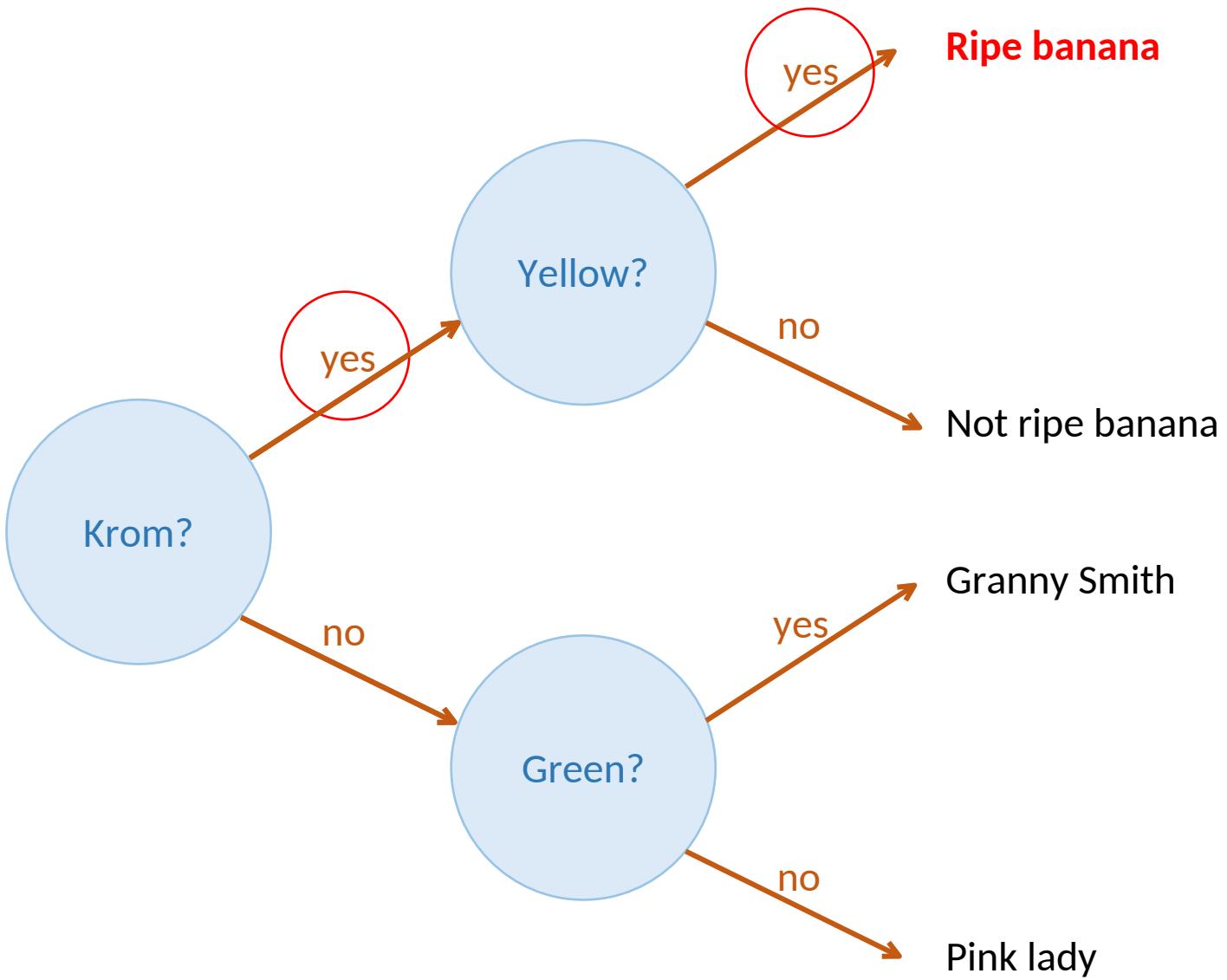
What is a decision tree?

ECARe



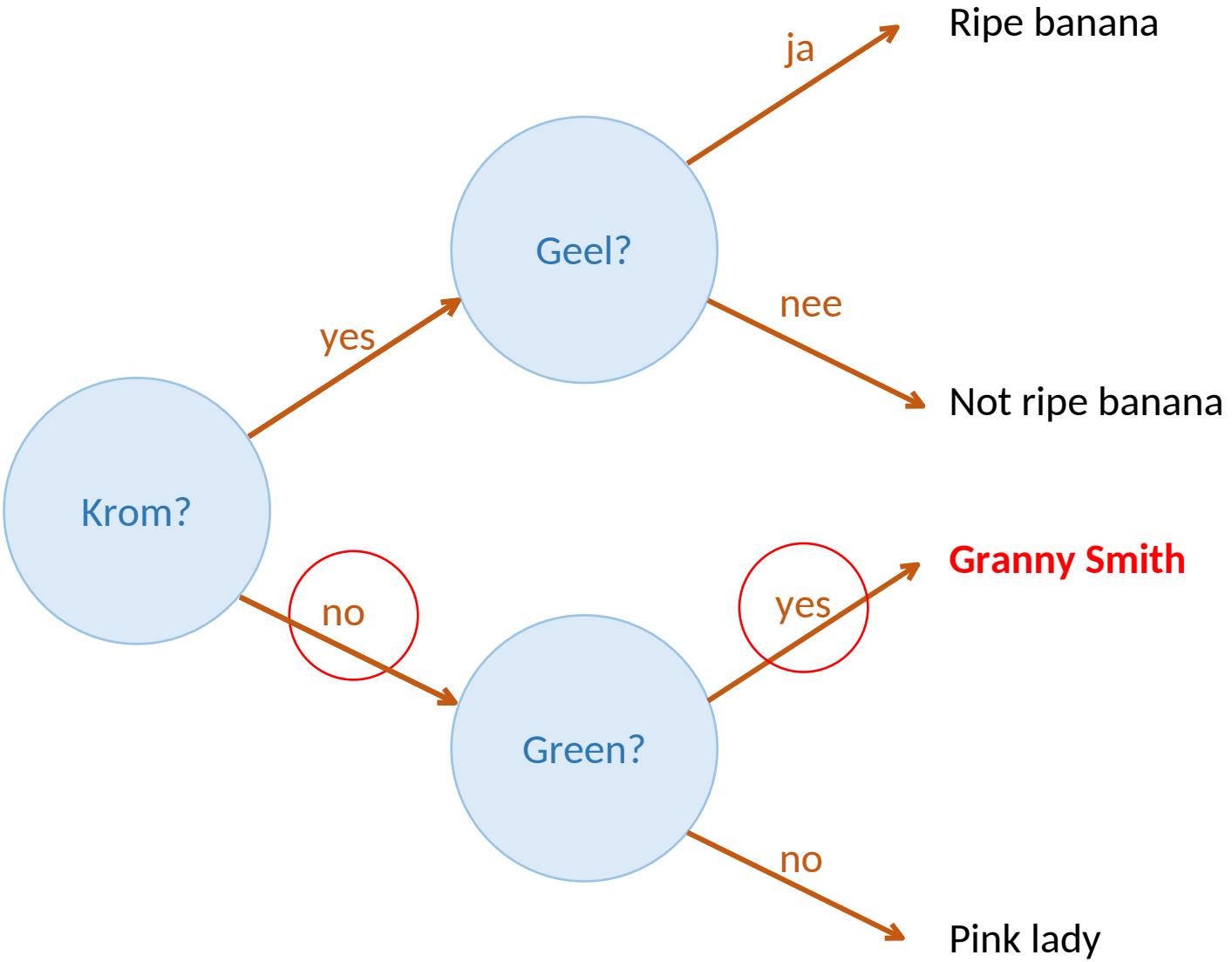
What is a decision tree?

ECARe

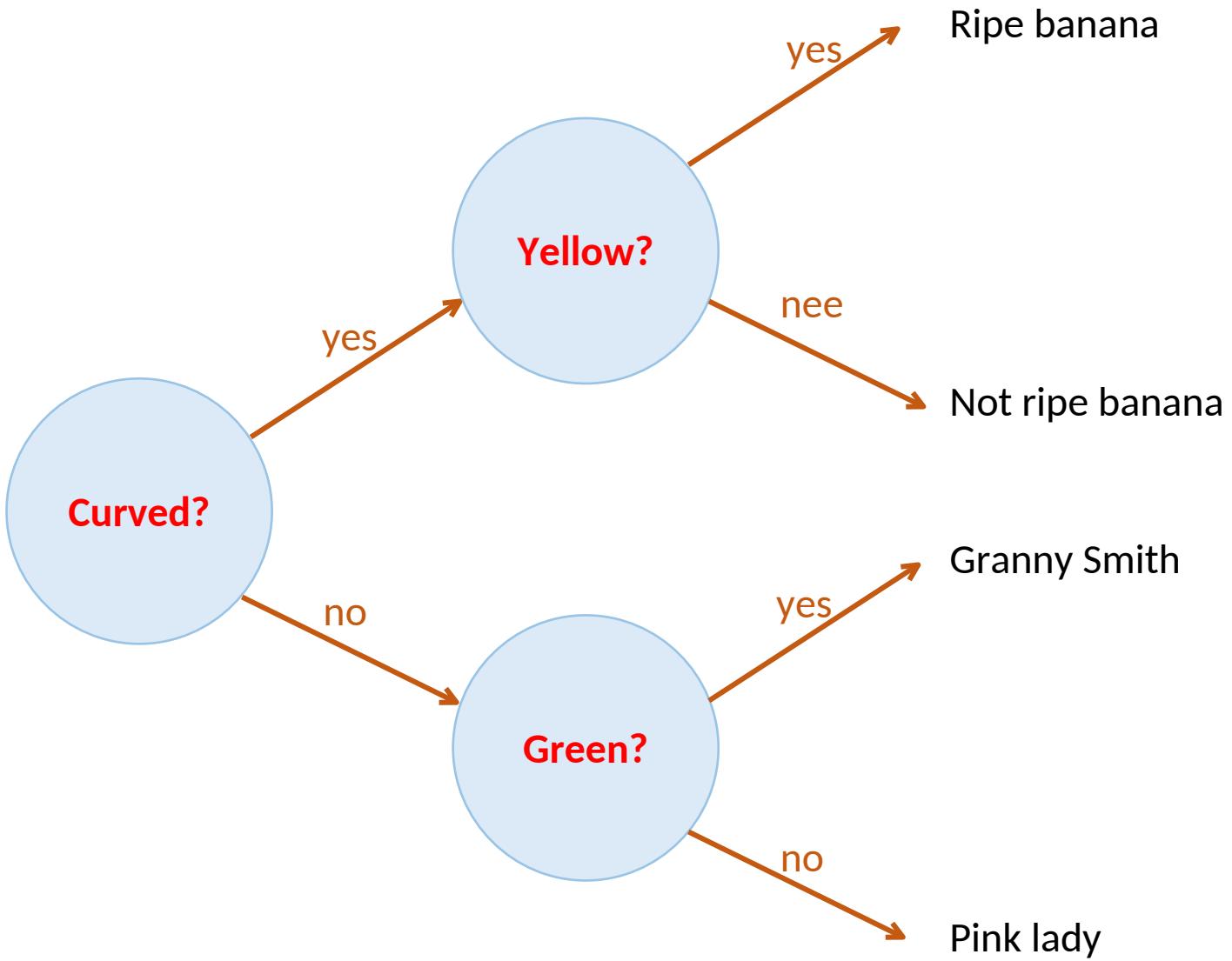


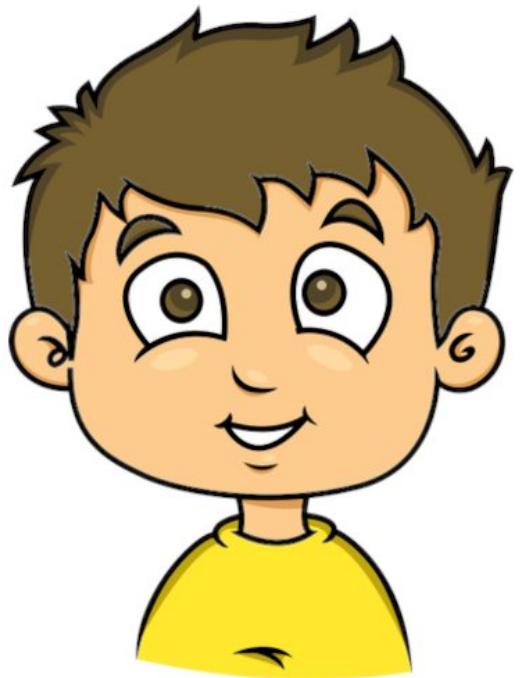
What is a decision tree?

ECARe



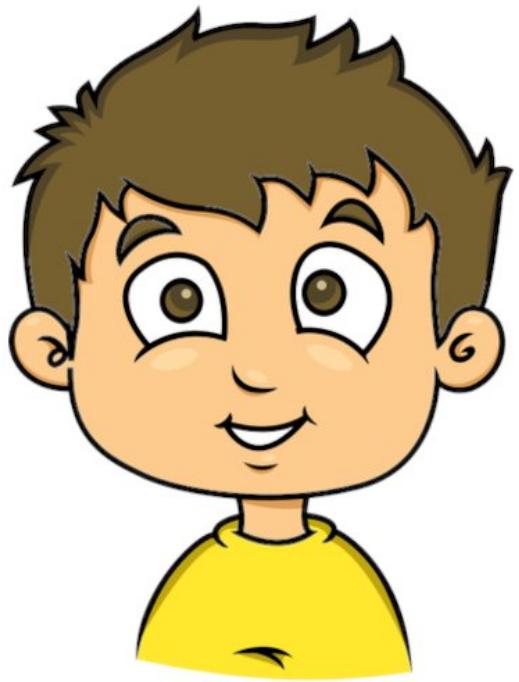
What is a decision tree?





Lets do it
ourselves!

Pirate detector



Bert loves dressing up, but his mom never knows when he's a pirate!
Machine learning to the rescue!

Examples

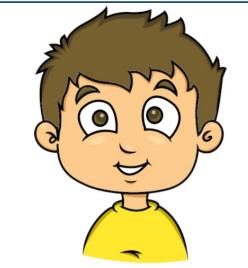
Examples

not a pirate



Examples

not a pirate

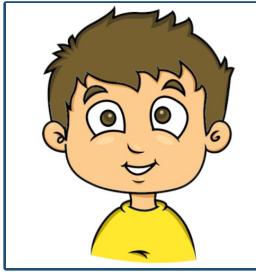


not a pirate



Examples

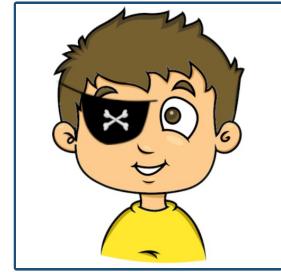
not a pirate



not a pirate



pirate



Examples

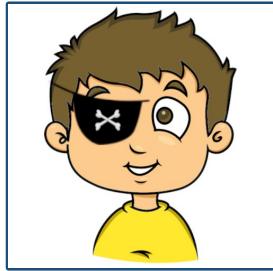
not a pirate



not a pirate



pirate

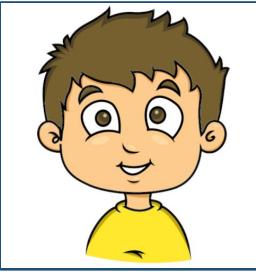


not a pirate



Examples

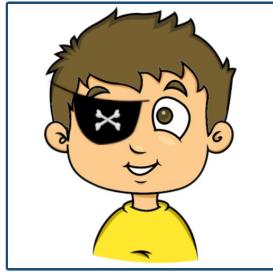
not a pirate



not a pirate



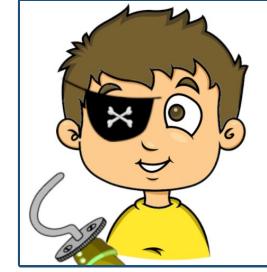
pirate



not a pirate

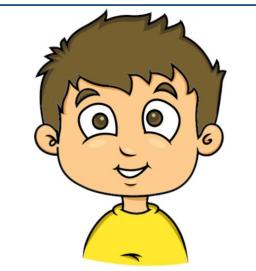


not a pirate



Examples

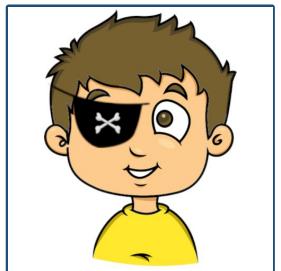
not a pirate



not a pirate



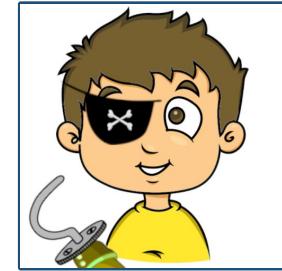
pirate



not a pirate



not a pirate

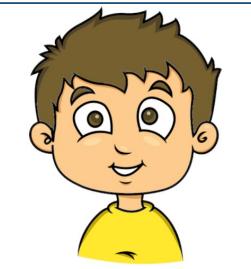


pirate



Examples

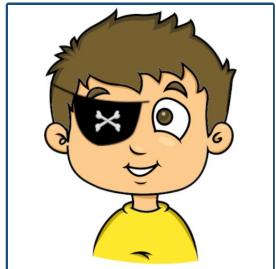
not a pirate



not a pirate



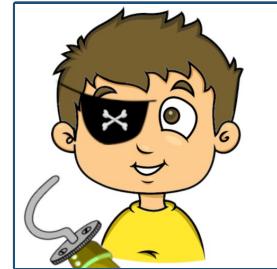
pirate



not a pirate



not a pirate



pirate



not a pirate



Examples

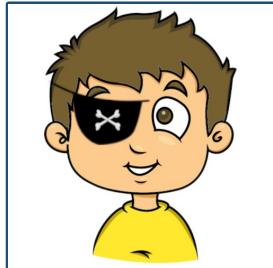
not a pirate



not a pirate



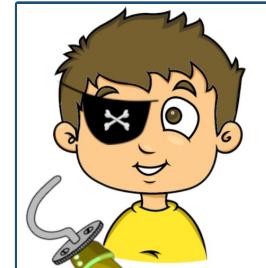
pirate



not a pirate



not a pirate



pirate



not a pirate



pirate



Examples

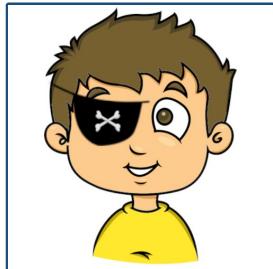
not a pirate



not a pirate



pirate



not a pirate



not a pirate



pirate



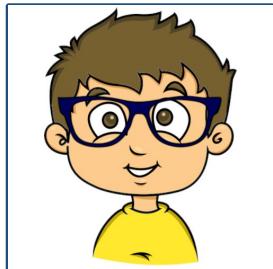
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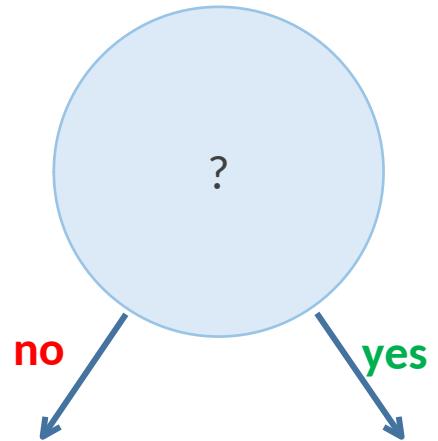


pirate



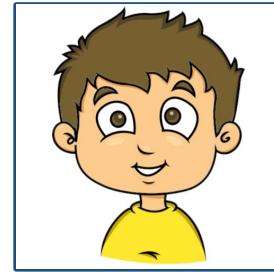
not a pirate





Examples

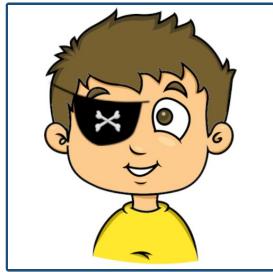
not a pirate



not a pirate



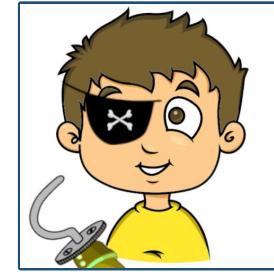
pirate



not a pirate



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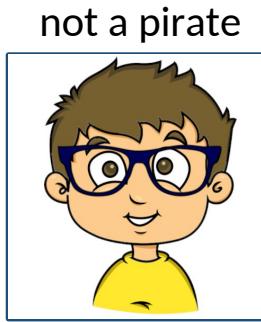
pirate



not a pirate

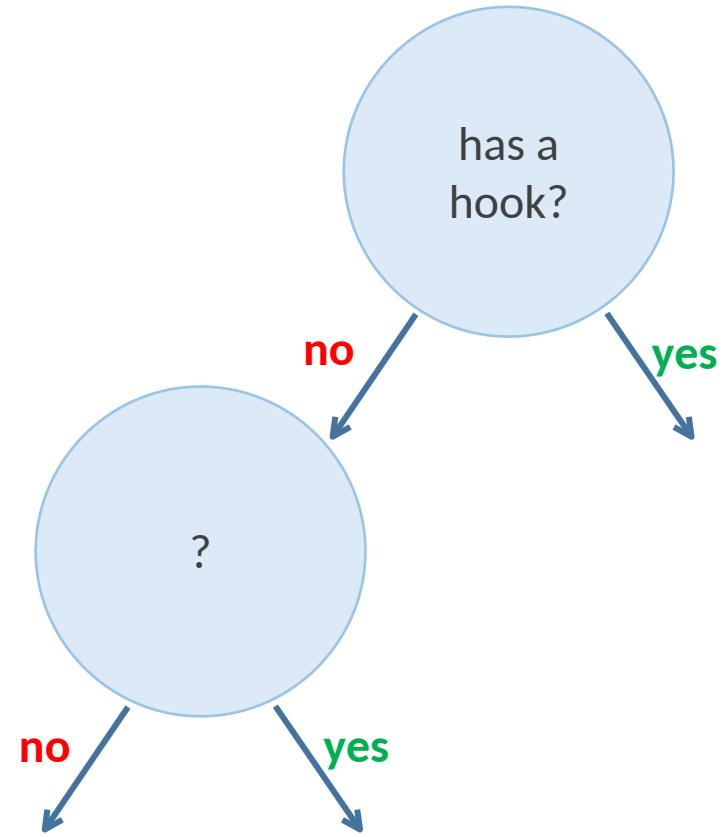


pirate



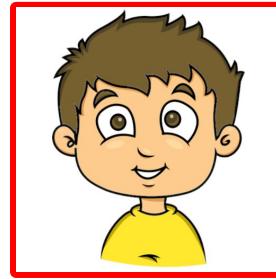
Artificial intelligence in health care

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Examples

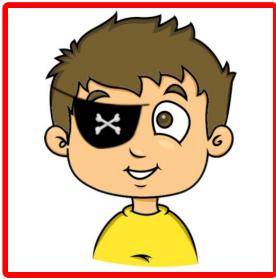
not a pirate



not a pirate



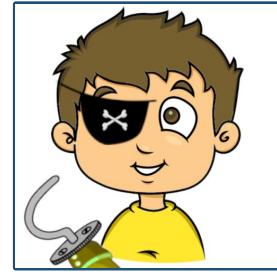
pirate



not a pirate



not a pirate



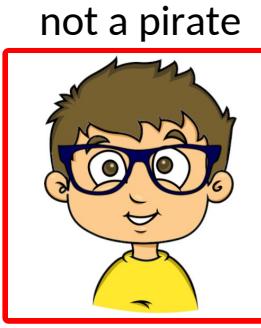
pirate



not a pirate

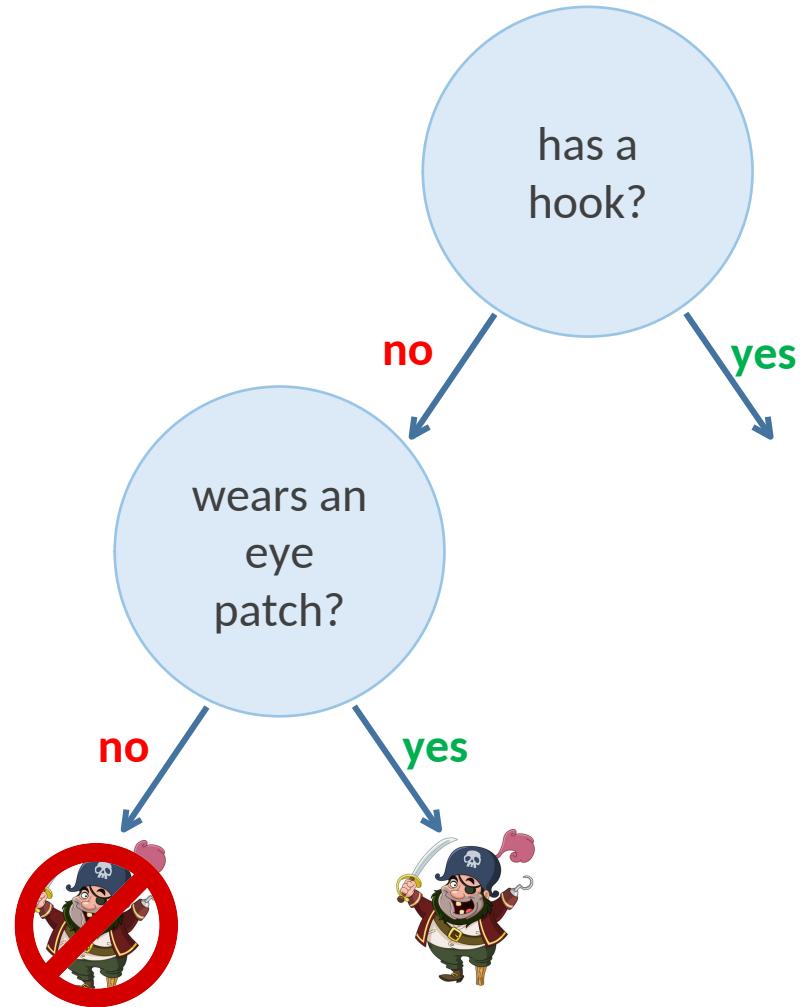


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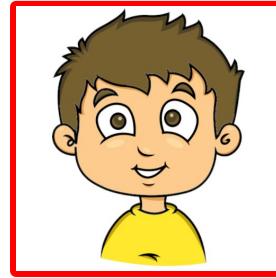
Artificial intelligence in health care

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Examples

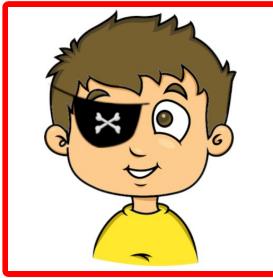
not a pirate



not a pirate



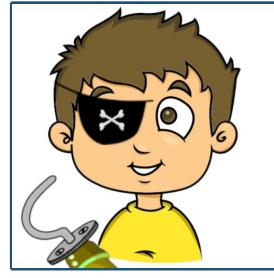
pirate



not a pirate



not a pirate



pirate



not a pirate

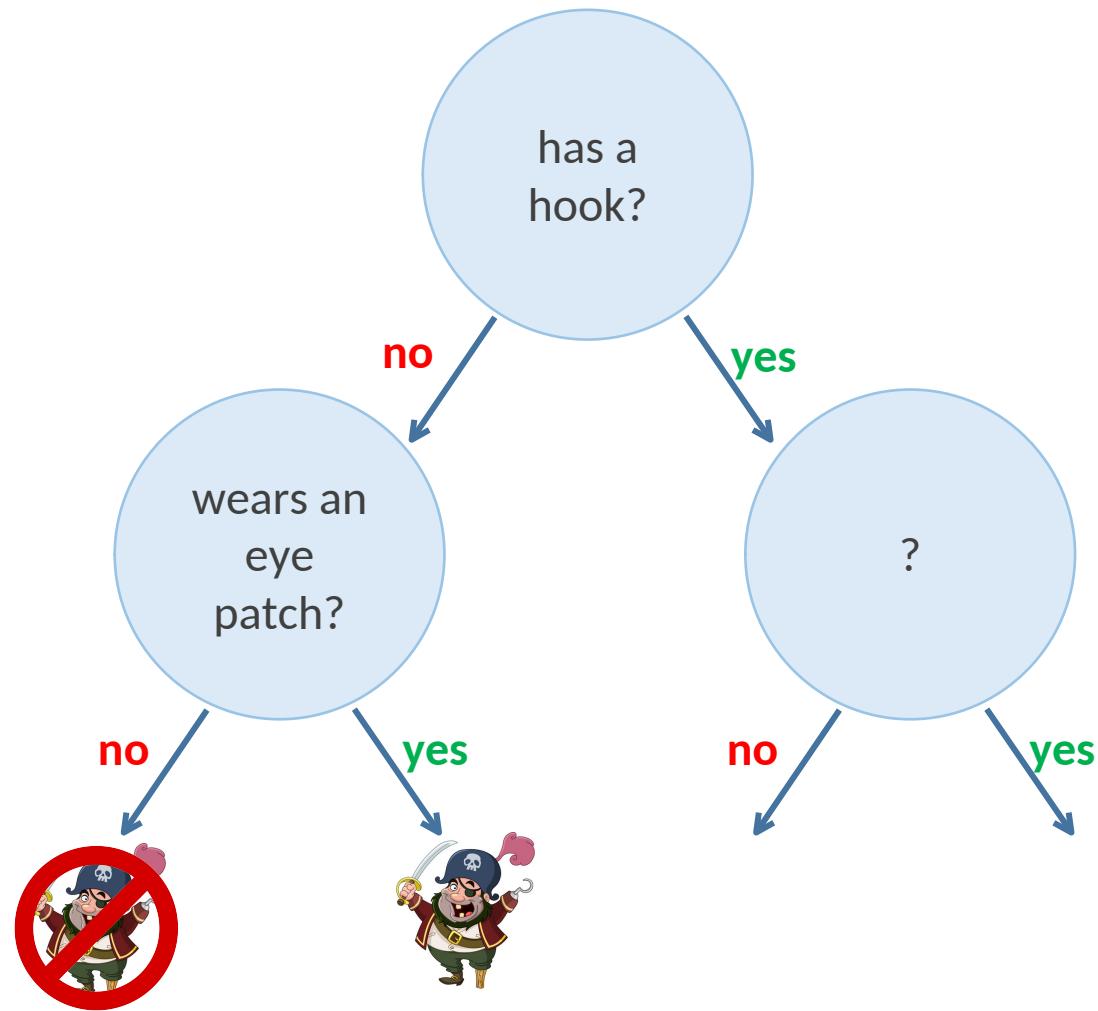


pirate



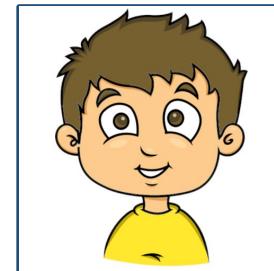
Artificial intelligence in health care

ECARe



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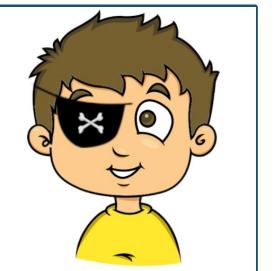
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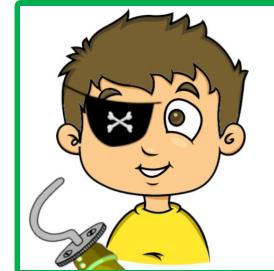
pirate



not a pirate



not a pirate



pirate



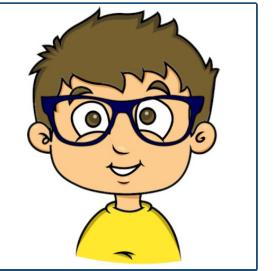
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pirate

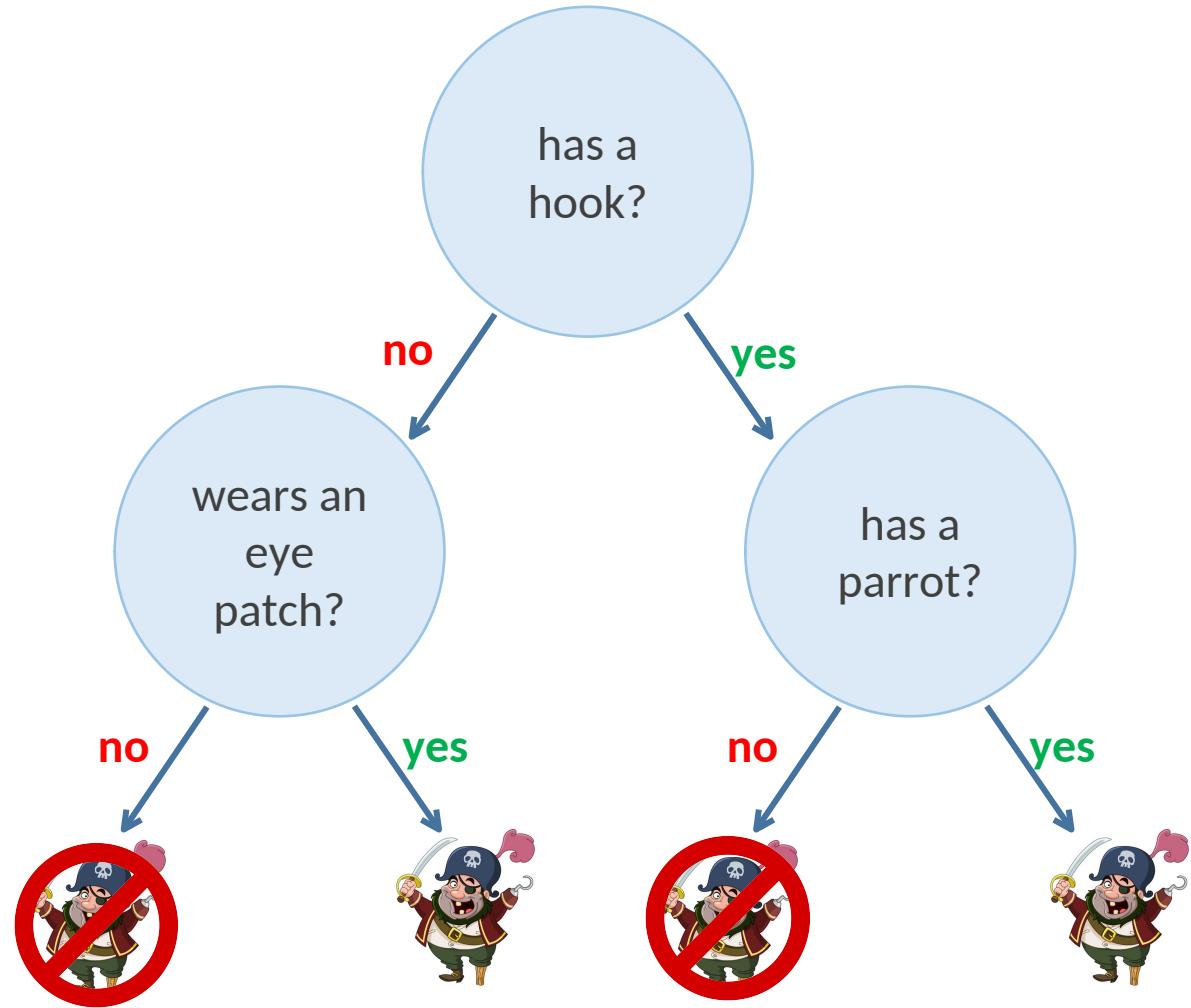


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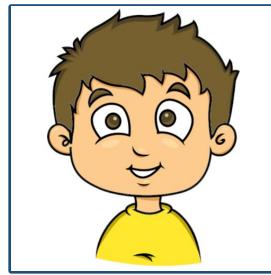
Artificial intelligence in health care

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Examples

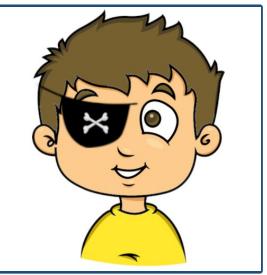
not a pirate



not a pirate



pirate



not a pirate



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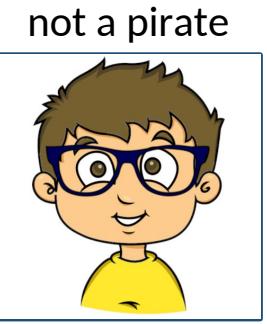
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not a pirate

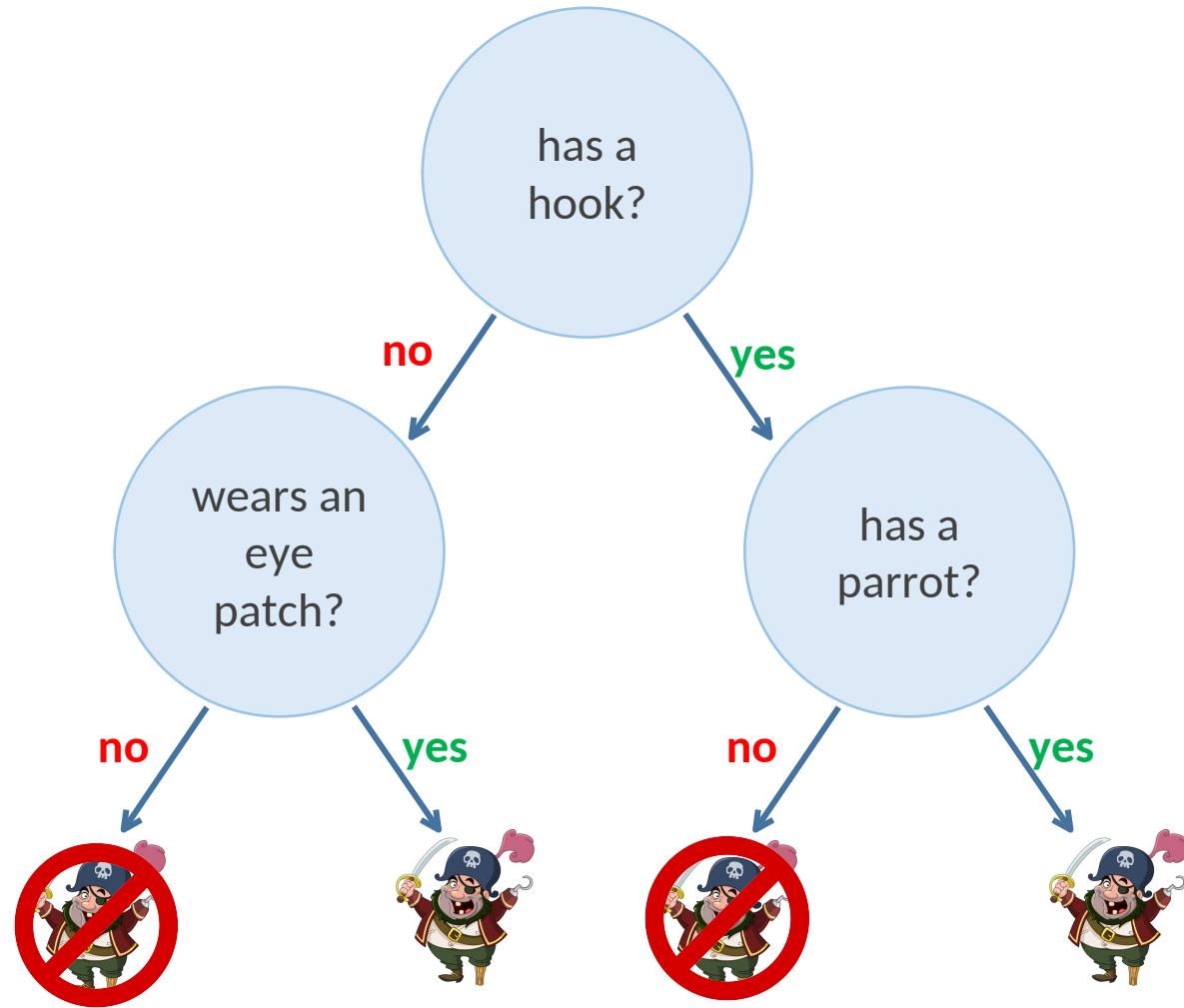


pirate



Artificial intelligence in health care

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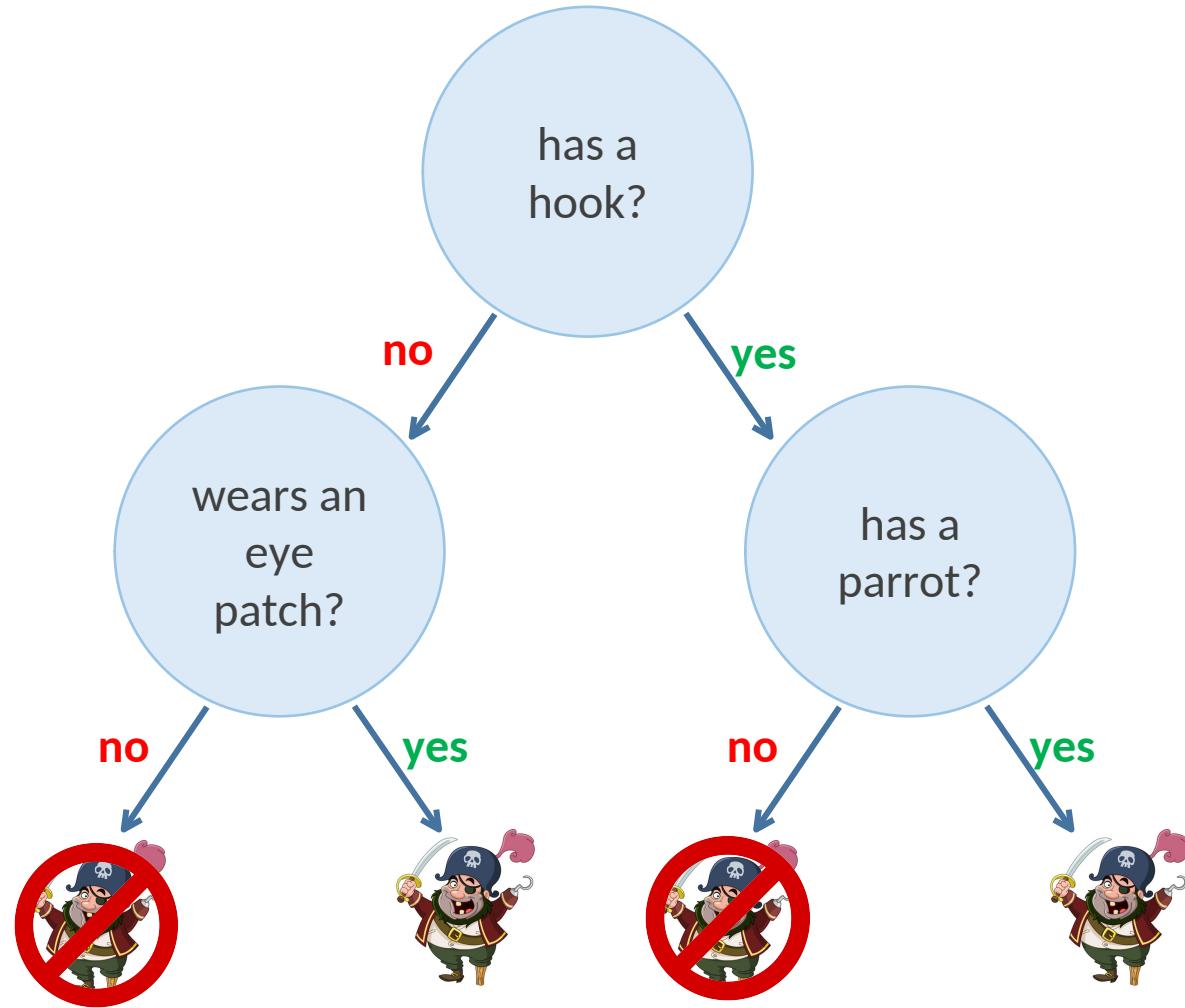


New data!

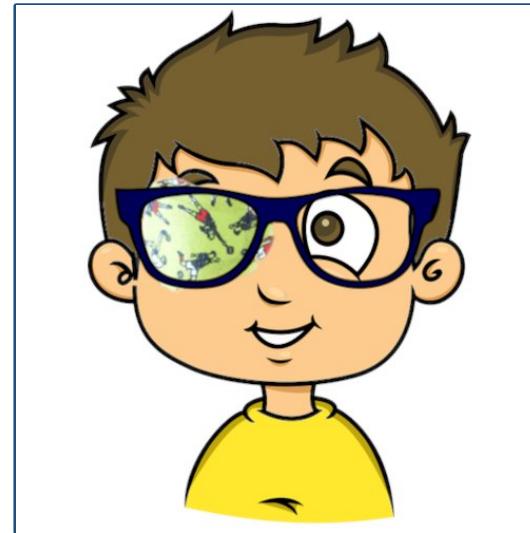


Artificial intelligence in health care

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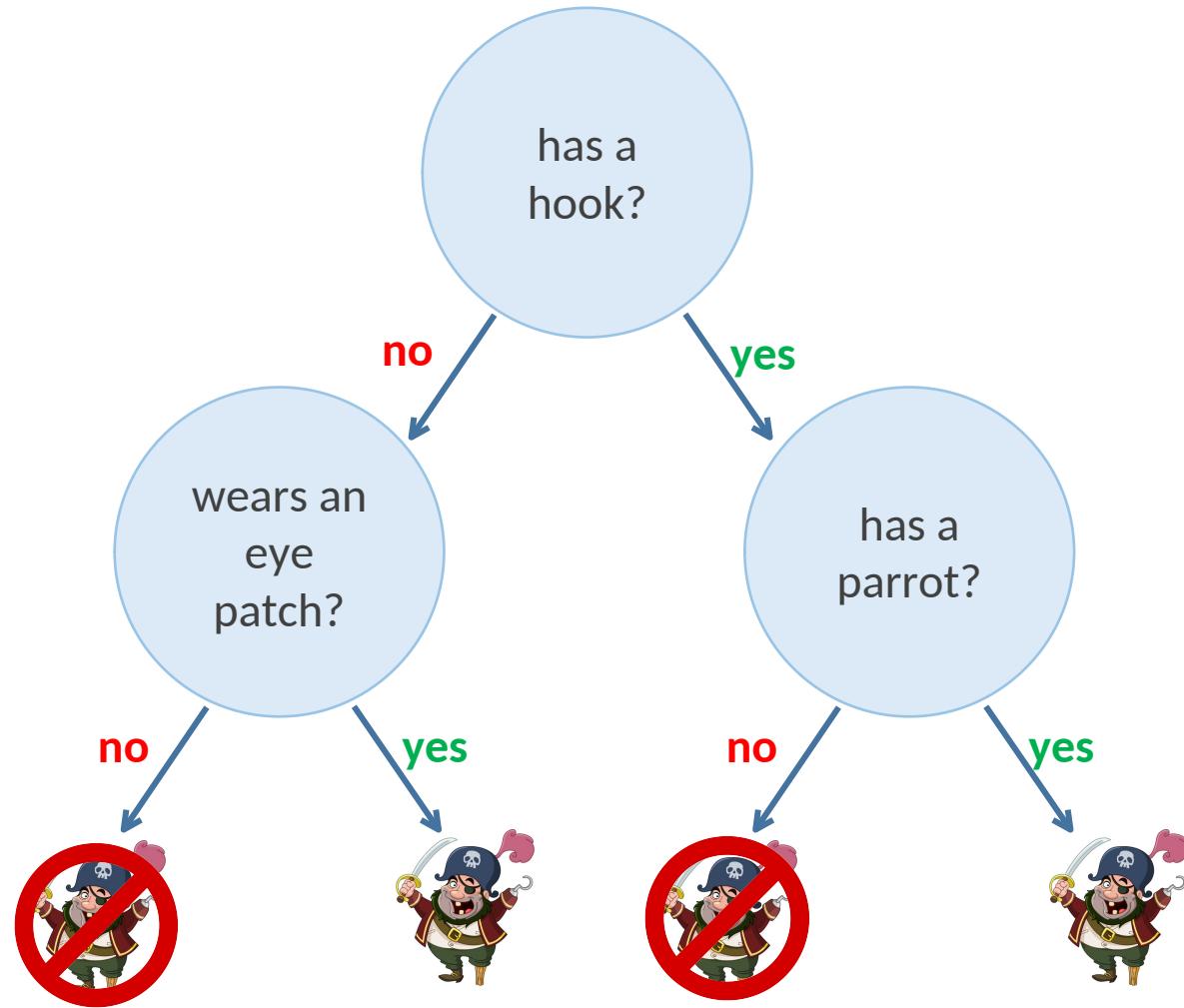


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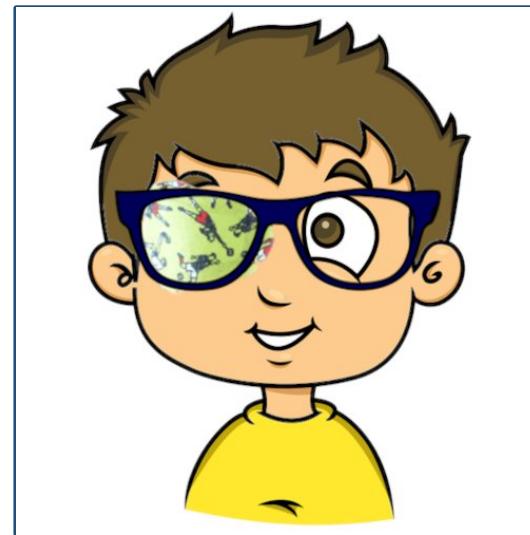


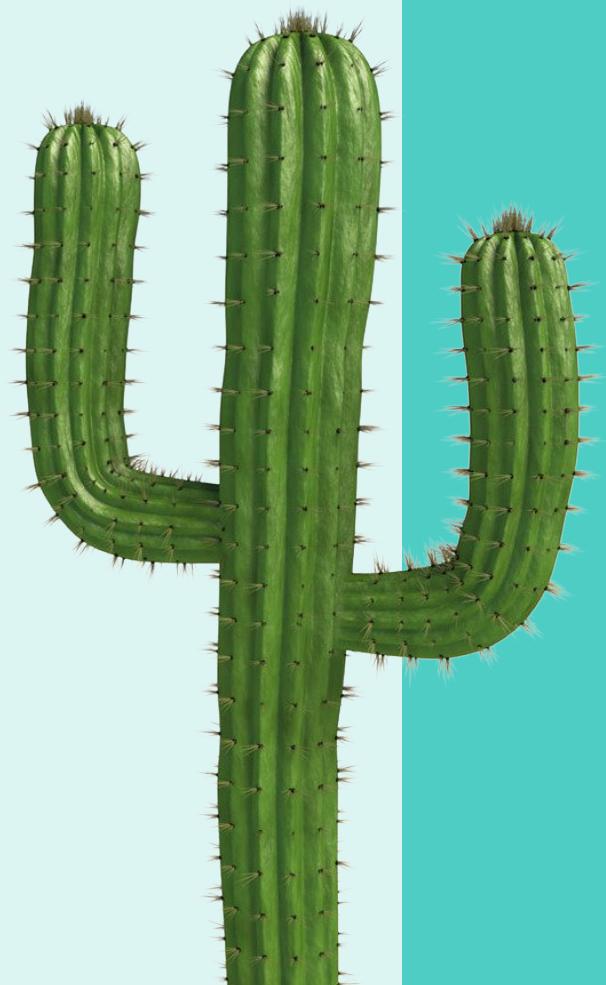
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New data!





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