## Practice quiz: Tree ensembles

## Congratulations! You passed!

Grade received 100%

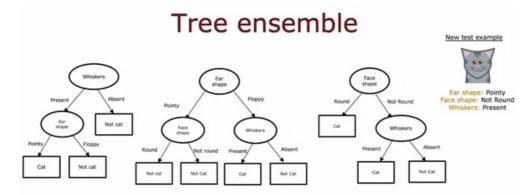
Latest Submission Grade 100%

**To pass** 80% or

higher



1,1 point



For the random forest, how do you build each individual tree so that they are not all identical to each other?

- Sample the training data with replacement
- O If you are training B trees, train each one on 1/B of the training set, so each tree is trained on a distinct set of examples.
- Train the algorithm multiple times on the same training set. This will naturally result in different trees.
- Sample the training data without replacement

data with replacement.	
	1/1 point
You are choosing between a decision tree and a neural network for a classification task where the input $x$ is a 100x100 resolution image. Which would you choose?	
A decision tree, because the input is structured data and decision trees typically work better with structured data.	
A neural network, because the input is unstructured data and neural networks typically work better with unstructured data.	
A neural network, because the input is structured data and neural networks typically work better with structured data.	
A decision tree, because the input is unstructured and decision trees typically work better with unstructured data.	
○ Correct     Yes!	
What does sampling with replacement refer to?	1/1 point
It refers to using a new sample of data that we use to permanently overwrite (that is, to replace) the original data.	
O It refers to a process of making an identical copy of the training set.	
Orawing a sequence of examples where, when picking the next example, first remove all previously drawn examples from the set we are picking from.	
• Drawing a sequence of examples where, when picking the next example, first replacing all previously drawn examples into the set we are picking from.	
	You are choosing between a decision tree and a neural network for a classification task where the input <i>x</i> is a 100x100 resolution image. Which would you choose?  A decision tree, because the input is structured data and decision trees typically work better with structured data.  A neural network, because the input is unstructured data and neural networks typically work better with unstructured data.  A neural network, because the input is structured data and neural networks typically work better with structured data.  A decision tree, because the input is unstructured and decision trees typically work better with unstructured data.  ∴ A decision tree, because the input is unstructured and decision trees typically work better with unstructured data.  ∴ Correct  Yes!  What does sampling with replacement refer to?  It refers to using a new sample of data that we use to permanently overwrite (that is, to replace) the original data.  It refers to a process of making an identical copy of the training set.  Drawing a sequence of examples where, when picking the next example, first remove all previously drawn examples from the set we are picking from.  Drawing a sequence of examples where, when picking the next example, first replacing all previously drawn examples into the set we are picking from.

Correct. You can generate a training set that is unique for each individual tree by sampling the training

**⊘** Correct