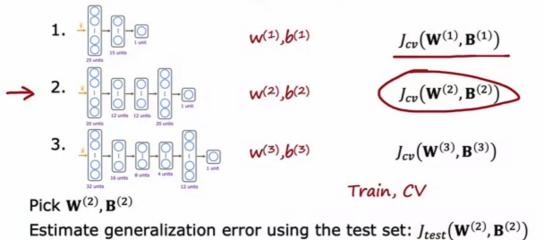
1.		1 / 1 punto
	In the context of machine learning, what is a diagnostic?	
	A process by which we quickly try as many different ways to improve an algorithm as possible, so as to see what works.	
	A test that you run to gain insight into what is/isn't working with a learning algorithm.	
	This refers to the process of measuring how well a learning algorithm does on a test set (data that the algorithm was not trained on).	
	An application of machine learning to medical applications, with the goal of diagnosing patients' conditions.	
	Correcto Yes! A diagnostic is a test that you run to gain insight into what is/isn't working with a learning algorithm, to gain guidance into improving its performance.	
2.		1 / 1 punto
	True/False? It is always true that the better an algorithm does on the training set, the better it will do on generalizing to new data.	
	○ True	
	False	
	Correcto Actually, if a model overfits the training set, it may not generalize well to new data.	
3.		1 / 1 punto

Model selection - choosing a neural network architecture



For a classification task; suppose you train three different models using three different neural network architectures. Which data do you use to evaluate the three models in order to choose the best one?

- The test set
- The training set
- All the data -- training, cross validation and test sets put together.
- The cross validation set

⊘ Correcto

Correct. Use the cross validation set to calculate the cross validation error on all three models in order to compare which of the three models is best.