# Week 3 Quiz

## 100%

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1. Why does sequence make a large difference when determining semantics of language?

   **1 / 1 punto**

   ○ Because the order of words doesn't matter

   ⦿ Because the order in which words appear dictate their impact on the meaning of the sentence

   ○ It doesn't

   ○ Because the order in which words appear dictate their meaning

   ✓ **Correcto**

2. How do Recurrent Neural Networks help you understand the impact of sequence on meaning?

   **1 / 1 punto**

   ○ They shuffle the words evenly

   ⦿ They carry meaning from one cell to the next

   ○ They don't

   ○ They look at the whole sentence at a time

   ✓ **Correcto**

3. How does an LSTM help understand meaning when words that qualify each other aren't necessarily beside each other in a sentence?

   **1 / 1 punto**

   ○ They load all words into a cell state

   ⦿ Values from earlier words can be carried to later ones via a cell state

   ○ They don't

○ They shuffle the words randomly

✓ **Correcto**

4. What keras layer type allows LSTMs to look forward and backward in a sentence?

**1 / 1 punto**

◉ Bidirectional

○ Bilateral

○ Unilateral

○ Bothdirection

✓ **Correcto**

5. What's the output shape of a bidirectional LSTM layer with 64 units?

**1 / 1 punto**

◉ (None, 128)

○ (None, 64)

○ (128,None)

○ (128,1)

✓ **Correcto**

6. When stacking LSTMs, how do you instruct an LSTM to feed the next one in the sequence?

**1 / 1 punto**

○ Ensure that they have the same number of units

○ Ensure that return_sequences is set to True on all units

○ Do nothing, TensorFlow handles this automatically

◉ Ensure that return_sequences is set to True only on units that feed to another LSTM

7. If a sentence has 120 tokens in it, and a Conv1D with 128 filters with a Kernal size of 5 is passed over it, what's the output shape?

    1 / 1 punto

    ⦿ (None, 116, 128)

    ◯ (None, 120, 124)

    ◯ (None, 120, 128)

    ◯ (None, 116, 124)

    ✓ **Correcto**

8. What's the best way to avoid overfitting in NLP datasets?

    1 / 1 punto

    ◯ Use LSTMs

    ◯ Use GRUs

    ◯ Use Conv1D

    ⦿ None of the above

    ✓ **Correcto**