

## Quiz 5 (Recurrent Networks)

This is an optional quiz to test your understanding of Recurrent Networks from Week 6.

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1. Explain the format and method by which input was fed to the NetTalk system, and the target output.
  2. Explain the role of the *context layer* in an Elman network.
  3. Draw a diagram of an LSTM and write the equations for its operation.
  4. Draw a diagram of a Gated Recurrent Unit and write the equations for its operation.
  5. Briefly describe the problem of *long range dependencies*, and discuss how well each of the following architectures is able to deal with long range dependencies:
    - a. sliding window approach
    - b. Simple Recurrent (Elman) Network
    - c. Long Short Term Memory (LSTM)
    - d. Gated Recurrent Unit (GRU)
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Make sure you try answering the Questions yourself, before checking the [Sample Answers](#)