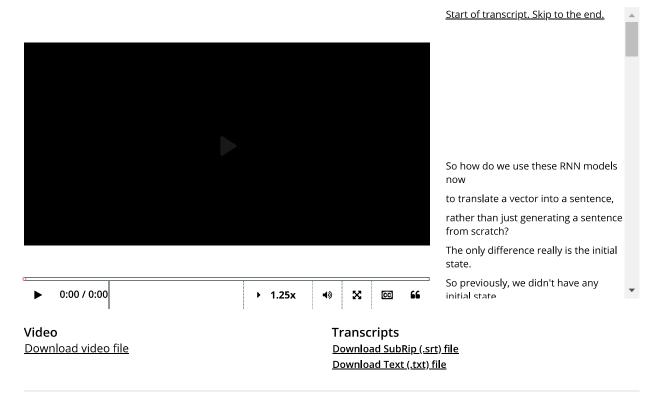
<u>Help</u> smitha_kannur ▼

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Course / Unit 3 Neural networks (2.5 weeks) / Lecture 11. Recurrent Neural Networks 2

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5. RNN Dec	codina			
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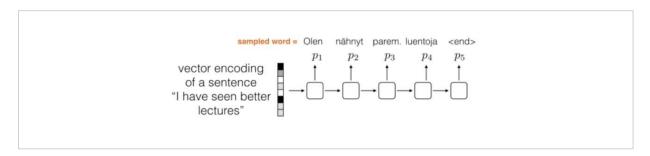
Decoding



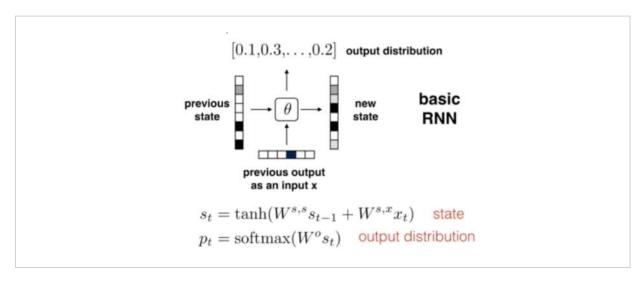
Decoding with RNN

1/1 point (graded)

Now, we would like to decode a feature vector with RNN's. The picture below illustrates how a vector encoding of the English sentence "I have seen better lectures" is translated into a sentence of a foreign language.



Unlike in encoding, at each step, an output distribution p_t is produced in a decoding RNN.



$oxedsymbol{oxed}$ In the translating example above, the output probability distribution p_t is fed as an input	to the next step
$oxedsymbol{ extstyle e$	red between steps
✓ In the first image, the foreign word "Olen" in the above picture is a "sampled" result from RNN produced.	a distribution the
✓	
olution:	
s shown in the figure, it is the previous output x_t but not the output probability ditribution p tep. The probability distribution is different at each step as it propogated from the begining solutions robability distribution at each step, the output word is then sampled from the distribution.	
Submit You have used 1 of 2 attempts	
3 Answers are displayed within the problem	
redictions	
1 point (graded)	
uppose we are building an RNN model to translate images into sentences, as described in the	e lecture. Which of the
ollowing is only done in generating the predictions of sentences from a trained RNN given the	e test images but not
	e test images but not
	e test images but not
	e test images but not
n the training process?	e test images but not
the training process? Feeding the sampled output as part of the input to the next time step	e test images but not
The training process? Feeding the sampled output as part of the input to the next time step Calculating what percentage of words the RNN correctly generated	e test images but not
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The training process? Feeding the sampled output as part of the input to the next time step Calculating what percentage of words the RNN correctly generated Feeding in the hidden state as input each time step	e test images but not
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Feeding the sampled output as part of the input to the next time step Calculating what percentage of words the RNN correctly generated Feeding in the hidden state as input each time step It is above are done during training except using the sampled output as input. In training words specified as input for the next time step. However, in testing you want to predict the se o you use the sampled output at one time step as the input for the next step. Submit You have used 1 of 2 attempts Answers are displayed within the problem Discussion Opic: Unit 3 Neural networks (2.5 weeks):Lecture 11. Recurrent Neural Networks 2 / 5.	Hide Discussion
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	Why do I feel like it's unreliable to sample from a distribution to make a prediction? What if it sample a 0.1 rather than 0.8 by chance, th	7
2	[staff] progress computed incorrectly. Hi, my overall score and percentage does not seem to tally with the individual problem score for this lecture, would it be possible to rect	1
Q	Getting More Practice - building up from Zero to Hero (ATTN STAFF). Lhave listened to these lecture videos and done the exercises. This is all very interesting and important stuff. Where does one find more	10
Q	I mean this is literally the worst video in this course so far Lwatched it 4 times now and it's not any clearer to me what is being talked about. Had to read multiple blog posts via Google to even be	1
Q	Vague lecture Sometimes, the language of the lecture is really vague and unclear.	1
Q	I found this lecture particularly unclear One big omission is how to train the RNN Is the RNN trained in two stages. Firstly the vector encoding of the sentence. And secondly the	11
∀	[STAFF] Completely lost with Predictions problem It seems, I need help with understanding of the meaning of Answer variants. As I understand problem description, it is necessary to find	11
2	Last Question was not clear I was confused by the the language of the last question. I got it wrong.	1
?	[staff] my progress is calculated incorrectly Please check and correct my progress for this lecture	4
?	[staff] L11.5 video segment jumped over 5 slides Hi The Lec.11-4 video segment stopped at slide #18 and Lec11-5 video segment starts at slide #24!! What happened to the video/lectur	1

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