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Week 2

Natural Language Processing in TensorFlow

Week 2

Discuss this week's modules here.

482 threads · Last post 18 hours ago

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Word Embeddings




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Last week you saw how to use the Tokenizer to prepare your text to be used by a neural network by converting words into numeric tokens, and sequencing sentences from these tokens. This week you'll learn about Embeddings, where these tokens are mapped as vectors in a high dimension space. With Embeddings and labelled examples, these vectors can then be tuned so that words with similar meaning will have a similar direction in the vector space. This will begin the process of training a neural network to understand sentiment in text -- and you'll begin by looking at movie reviews, training a neural network on texts that are labelled 'positive' or 'negative' and determining which words in a sentence drive those meanings.


[^](#) [Less](#)


Word Embeddings

[▶](#) **Video:** A conversation with Andrew Ng 2 min[Resume](#)[▶](#) **Video:** Introduction 2 min[▶](#) **Video:** The IMBD dataset 1 min[📖](#) **Reading:** IMDB reviews dataset 10 min[▶](#) **Video:** Looking into the details 4 min[▶](#) **Video:** How can we use vectors? 2 min[▶](#) **Video:** More into the details 2 min[📖](#) **Reading:** Check out the code! 10 min[▶](#) **Video:** Notebook for lesson 1 10 min[▶](#) **Video:** Remember the sarcasm dataset? 1 min[▶](#) **Video:** Building a classifier for the sarcasm dataset 1 min[▶](#) **Video:** Let's talk about the loss function 1 min[📖](#) **Reading:** Check out the code! 10 min[▶](#) **Video:** Pre-tokenized datasets 43 sec[📖](#) **Reading:** TensorFlow datasets 10 min[▶](#) **Video:** Diving into the code (part 1) 1 min[📖](#) **Reading:** Subwords text encoder 10 min

 **Video:** Diving into the code (part 2) 2 min


 **Reading:** Check out the code! 10 min


 **Video:** Notebook for lesson 3 5 min

 **Quiz:** Week 2 Quiz 8 questions Due Nov 16, 1:59 AM CST

 **Reading:** Week 2 Wrap up 10 min

Weekly Exercise- More on the BBC News Archive

 **Ungraded External Tool:** Exercise 2- BBC news archive 1h

 **Ungraded External Tool:** Exercise 2 Answer- BBC news archive 1h

