## Chatbot

- Video: Tasks with Long Sequences 2 min
- Reading: Tasks with Long Sequences 10 min
- Reading: Optional Al Storytelling 15 min
- ▶ Video: Transformer Complexity 3 min
- Reading: Transformer Complexity 10 min
- ▶ Video: LSH Attention
- Reading: LSH Attention 10 min
- Reading: Optional KNN & LSH Review 20 min
- Lab: Ungraded Lab: Reformer LSH
- ▶ Video: Motivation for Reversible Layers: Memory!
- Reading: Motivation for Reversible Layers: Memory! 10 min
- ▶ Video: Reversible Residual Layers 5 min
- Reading: Reversible Residual Layers
- Lab: Ungraded Lab: Revnet
- ▶ Video: Reformer
- Reading: Reformer 10 min
- Reading: Optional Transformers beyond NLP 20 min
- Reading: Acknowledgments 10 min

Heroes of NLP: Quoc Le

Assignment

**Course Resources** 

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## Tasks with Long Sequences

Tasks that make use of long sequences include

- Writing books
- Storytelling
- Building intelligent agents for conversations like chatbots.

This week you will learn about the bottlenecks in these larger transformer models, and solutions you can use to make them trainable for you. You will also learn about the re-former model (AKA the reversible transformer). Here is what you will be building for your programming assignment: A chatbot!

## **Context Windows:**

User 1: What's for dinner?

Chatbot: Who's cooking, you or me?

User 1: Hev now chatbot.

Chatbot: I hope it's not hay, that's

what horses eat.



Mark as completed





