

How Computers Learn to Talk and Translate!



By Harshal Chalke

What is a Sequence?

A *sequence* is like a story. One thing happens after another, step by step.



Days of week

Mix - Bake - Eat



Dominoes

What is Seq2Seq?

Seq2Seq is a way for computers to learn:

- Take in a sequence of words.
- Give back a new sequence!



Examples:

- Translating languages.
- Writing answers to questions.
- Summarizing stories.

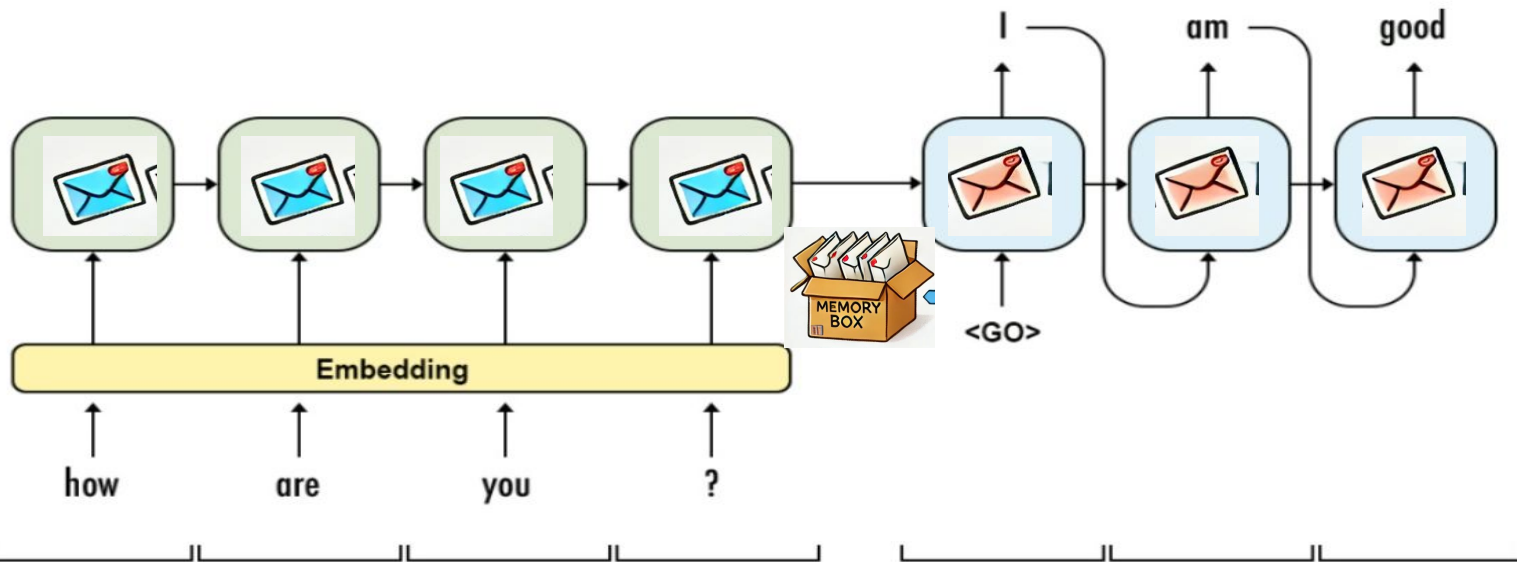
Did you know? Seq2Seq powers Google Translate!

How Does Seq2Seq Work?



ENCODER

DECODER



Why Is Seq2Seq Cool?

Fun activities!



in the sky!

Computers can:

- Help us talk to people in other languages.
- Write stories or answer questions.
- Make life easier!

Did you know? Seq2Seq helps Netflix write summaries of your favorite shows!

Want to Learn More?

Duolingo: Fun app to learn languages (uses Seq2Seq!).

Scratch: Make your own talking computer programs!

PBS Kids Coding Games: Explore how computers think.

