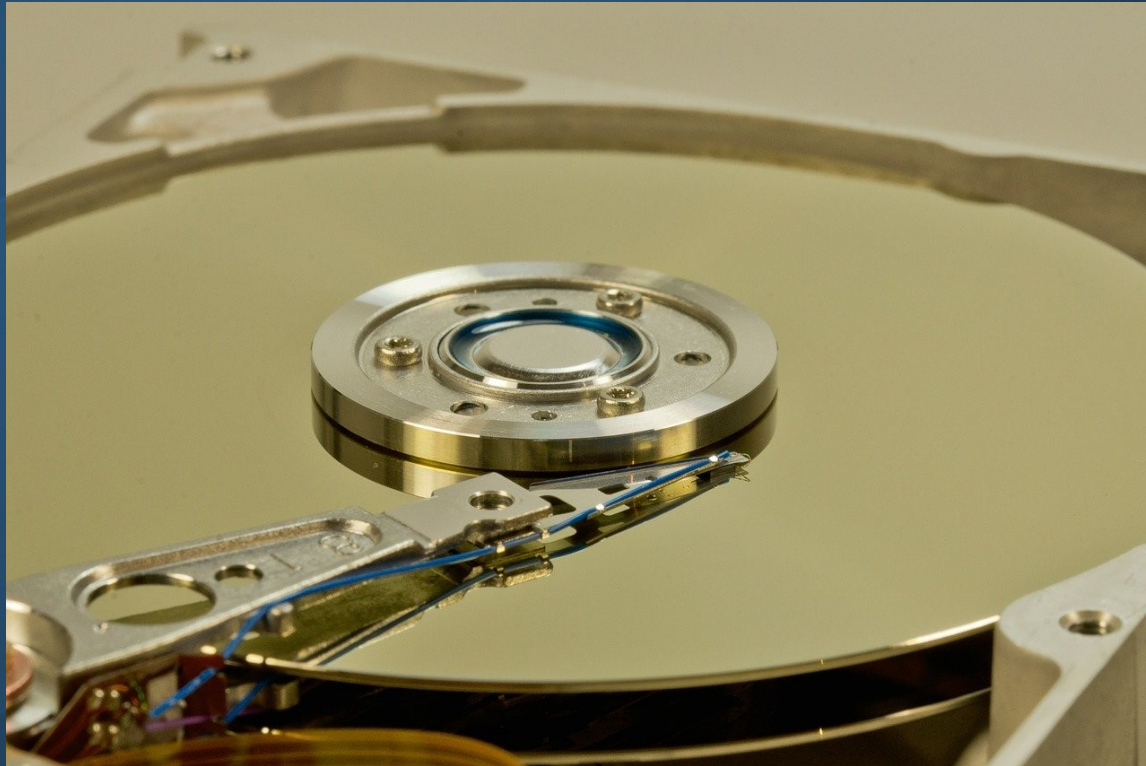


Natural Language Processing from First Principles

The Purpose of Language

Critical to Civilization



Encode/transmit vital information

Mind Boggling Variety



Evolved many times



Semantics + Syntax → Language

Written language is the linchpin of civilization

Critical Nuances



Many meanings

Set:

To put or apply

To put a price on

To resolve or decide on

To put a broken bone back

Arrangement of scenery on stage

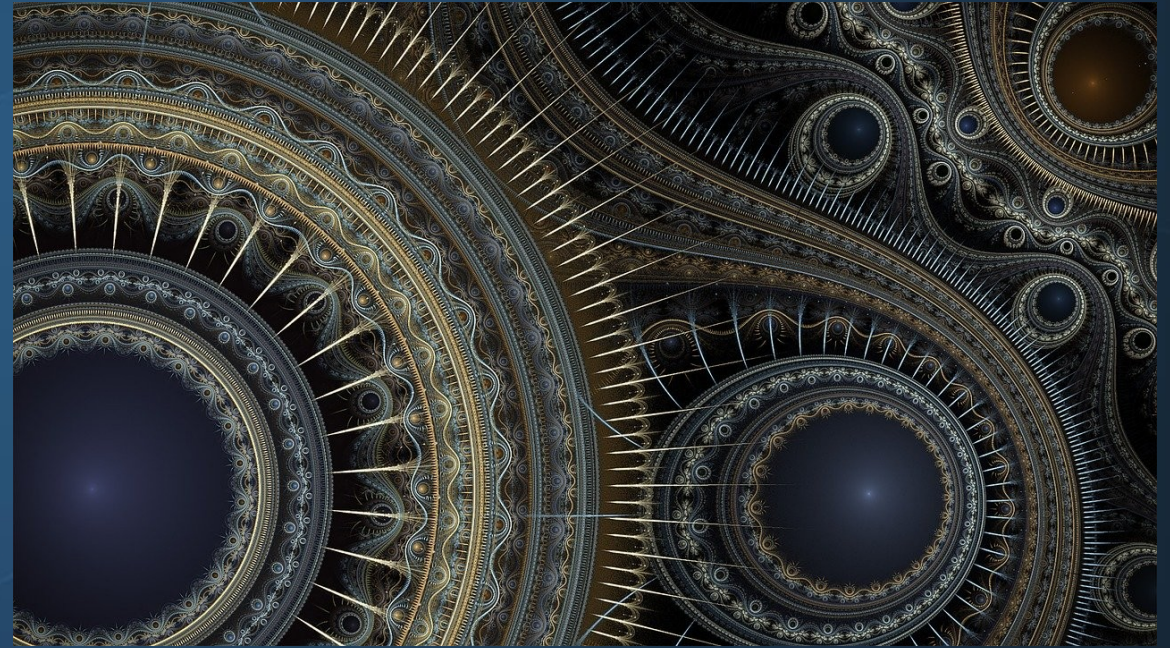
Collection of things used together

Collection of similar objects

Oh the Irony...



Perfect...



Complexity → Difficulty

Quick Recap

- Language transmits meaning through time and space
- Evolved independently many times
- Semantics + syntax → language
- Multiple challenges for machines
 - Many definitions for one word
 - Meanings change depending on context

Up Next

