The Big Picture

- Knowledge Intensive
  - Common Sense
  - Verification
  - Deep Blue

- Data Intensive
  - Robbin’s Conj.
  - 4-color thm.

- Inference Triangle
  - Computer Vision
  - NLU

AI Knowledge-Data-Inference Triangle

20+yr GAP!

- Google’s Knowl. Graph
- Watson
- Google Transl.
- Alpha Go
- Semantic Web
- Object recognition
- Siri
- Sentiment analysis
- Google Search (IR)
- Speech understanding

Reasoning/Search Intensive

Speech understanding

Object recognition

Sentiment analysis

Alpha Go

Semantic Web

Google Transl.

Watson

Siri

Google’s Knowl. Graph

Computer Vision

NLU

Verification

Deep Blue

Robbin’s Conj.

4-color thm.