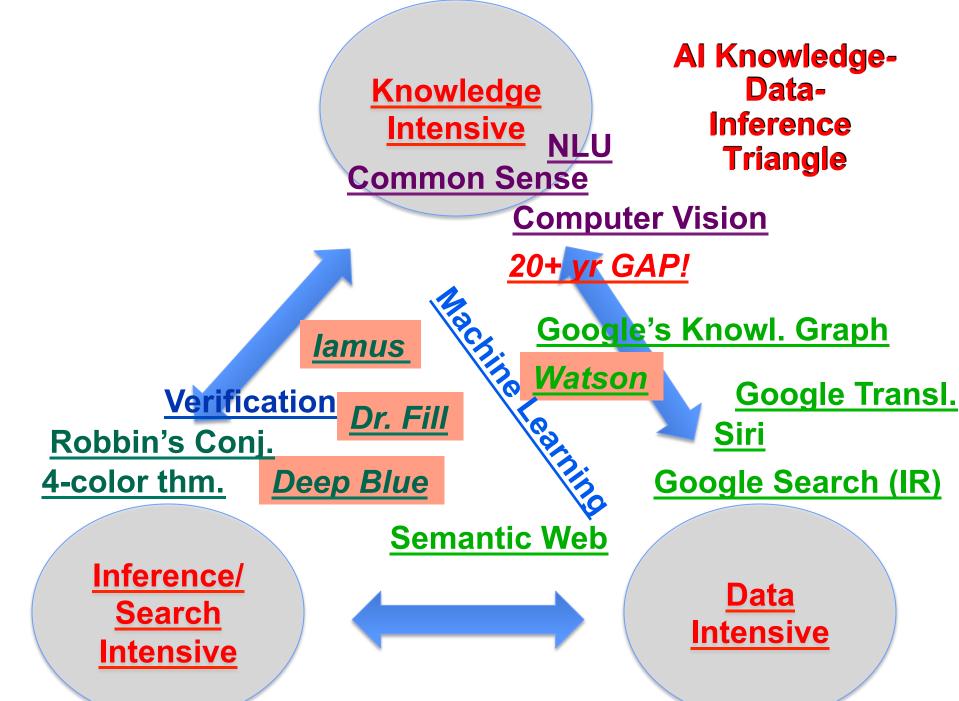
CS6700 Advanced AI

Bart Selman

Projects

```
Very open-ended
Go for BIG ideas! (No such thing as "failure.")
  E.g.
  Can you evolve a language from scratch?
  Can you learn from "reading"? (E.g. game play
  from text on discussion boards)
  Mechanical Turk --- Human-computing hybrids
  Mine info from twitter feeds
  Boost game play via "mimicry"
```



Knowledge or Data?

Last 5 yrs: New direction.

Combine a few general principles / rules (i.e. knowledge) with training (ML) on a large expert data set to tune hundreds of model parameters.

Obtain world-expert performance using inference.

Examples:

- --- IBM's Watson / Jeopardy
- --- Dr. Fill / NYT crosswords
- --- lamus / Classical music composition

Performance: Top 50 or better in the world!

Is this the key to human expert intelligence?

Discussion / readings topic.