WATSON



Who is Watson?

Watson is an artificial intelligence computer system capable of answering questions posed in natural language.

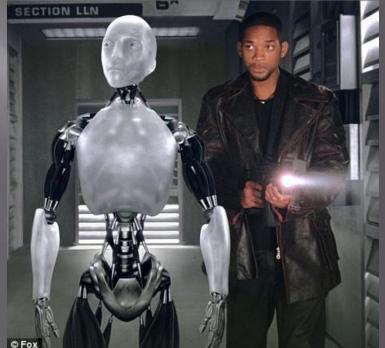


What does Watson Know?

- Name some of the references you expect to find stored in Watson's memory banks.
- The entire "World Book Encyclopedia."
- Wikipedia.
- The Internet Movie Database.
- Much of The New York Times archive .
- □ The Bible.
- And much more...

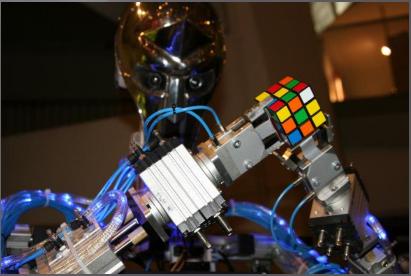
Do you believe that humans will ever build robots that are smarter than us? Why or why not?





Why do you think the engineers behind the Watson project are often "surprised" by Watson's answers to questions?

What does that tell you about the complexity of Watson?



Why might elements of language like puns and wordplay be especially hard concepts for a computer to grasp?



Why would it be hard for a Computer to Understand Speech

- Language presupposes knowledge about the world
- Language only reflects the surface of meaning
- E.g. Headline Ambiguity:
 - Iraqi Head Seeks Arms
 - Local high school dropouts cut in half
 - British Left Waffles on Falkland Islands

Real-World Applications of Computational Linguistics

- Spelling Suggestions/Corrections
- Grammar Checking
- Synonym Generation
- Information Extraction
- Text Categorization
- Automated Customer Service
- Speech Recognition (limited)
- Machine Translation

Watson Cannot process speech yet, but if it could, do you think it is ok for a machine to understand much of what you say, even if you are not talking to it?



If you were the head of IBM, what challenge would you take on next? Which problems in the world can be solved with super-smart computers?



Further comments and questions? :)

<u>http://www.pbs.org/newshour/extra/teachers/lessonplans/s</u> <u>cience/jan-june11/watson_02-17_printout.pdf</u>