

## Waston on Jeopardy video transcript

A little over three years ago the folks at IBM came to us with a proposal that they considered to be the next grand challenge in computing and that was designing a computer system that could understand the complexities of natural language well enough to compete against Jeopardy's best players.

One of the first major breakthroughs in natural language processing came when IBM developed an AI named Watson to take on the television game show Jeopardy.

Watson didn't come out of the box ready for prime time. "Yell barracuda, everybody says huh what. You yell shark, we've got a panic on our hands" is said in this film. Watson."

"What is the 4th of July?"

"No. Max."

"What is Jaws?"

"Thank you. Fourth of July?"

The IBM team took years developing, refining, and training the system including months of practice matches on a mock set.

"Founded in 1789, this Washington DC school was the USA's first Catholic college."

"Sorry, I'm stumped."

"Oh."

To make Watson a contender, the IBM team armed the system with advanced math called algorithms and powerful AI technologies like machine learning.

In February 2011, it was time for Watson's TV debut to show the world what it had learned.

"Even a broken one of these on your wall is right twice a day."

Watson tries to understand the question by breaking it down into different parts of speech. It then does a broad sweep of the millions of books, articles, and documents that cover the wide variety of Jeopardy topics to come up with thousands of possible answers. Watson then collects, analyzes, and weighs evidence from all the material to narrow down these possibilities. Thousands of different algorithms work together to score the evidence for each possible answer then Watson ranks the remaining possibilities by its confidence in those answers. All this happens almost instantaneously.

"Watson."

"What is a clock?"

"Clock is correct."

"What is Christchurch?"

"Jeff."

"Who is Leo Tolstoy?"

"Yes."

"Who is Henry the VIII?"

"Yes."

"What is narcolepsy?"

"You're right again. And with that you moved to \$36,681. A big, big lead."

In a watershed moment, Watson took on and defeated the world's two top Jeopardy players.

"Who is Stoker? I for one welcome our new computer overlords."

The team at IBM knew this technology could do far more than win game shows. Watson on Jeopardy was just the beginning. This technology could be unleashed on some of the world's most difficult problems by helping industries that are flooded with data.

"If that was possible what else could we do?"