

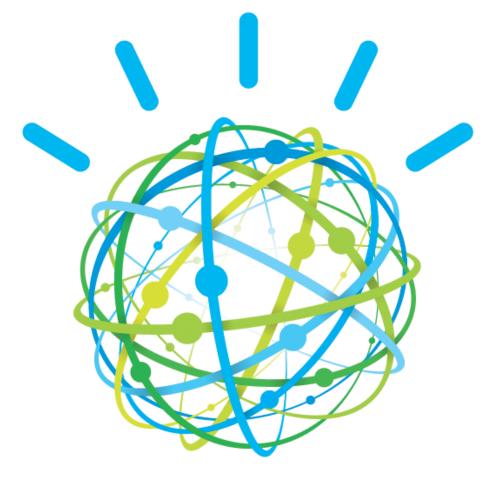
IBM Watson goes to work Dale Lane



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Question Answering

How Watson works

IBM Watson since Jeopardy!

What comes next for Watson?







Understanding the question



In May 1898, Portugal celebrated the 400th anniversary of which explorer's arrival in India?



In May 1898, Prortugal cecelebratedhe 400th anniversary of which explorer's aarrival in Inlindia explorer



In May 1898, Portugal celebrated the 400th anniversary of which explorer's arrival in India?

May

Portugal

celebrated

arrival in

anniversary

India

explorer

In May, Gary arrived in India after he celebrated his anniversary in Portugal.



In May 1898, Portugal celebrated the 400th anniversary of which explorer's arrival in India?

May

Portugal

celebrated

arrival in

anniversary

India

explorer

On the 27th of May 1498, Vasco de Gama landed on Kappad Beach



Which loyal companion first appeared in the same year the object he shares a name with was discovered?



Building knowledge



Where was Einstein born?



Where was Einstein born?

Name of physicist	Birth place
Marie Curie	Warsaw
Albert Einstein	Ulm
Niels Bohr	Copenhagen



Where was Einstein born?

"... One day, from among his city views of Ulm, Otto chose a water color to send to Albert Einstein as a remembrance of Einstein's birthplace ..."















IT'S JUST A BLOODY NOSE! YOU DON'T HAVE THIS HEREDITARY DISORDER ONCE ENDEMIC TO EUROPEAN ROYALTY











Question Answering

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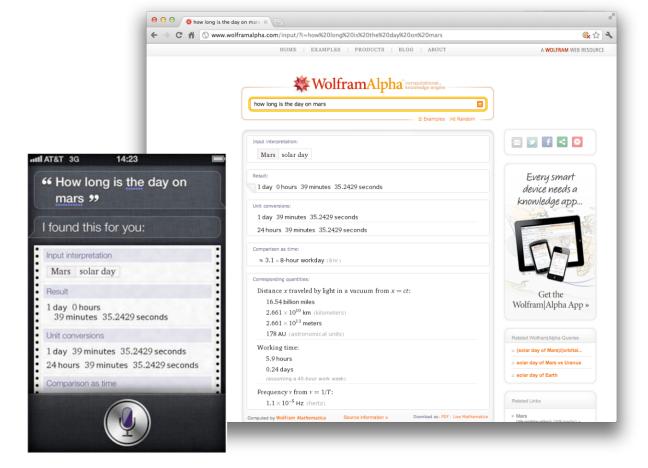
Optimizing the World's Infrastructure

How is it different to ...?







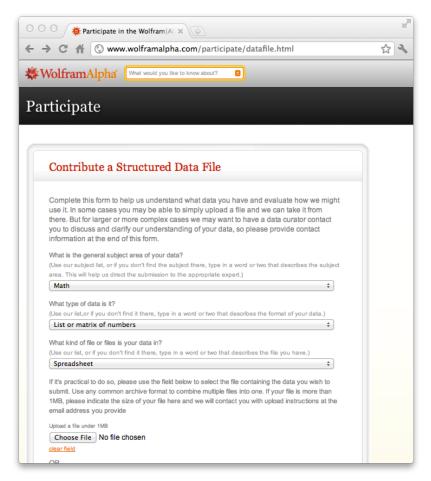


















Wikipedia

New York Times

Time Magazine

Oxford English Dictionary

Project Gutenberg books

Encarta

IMDB

Complete works of Shakespeare





How is it different to ...?





In May 1898, Portugal celebrated the 400th anniversary of which explorer's arrival in India?

May

Portugal

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arrival in

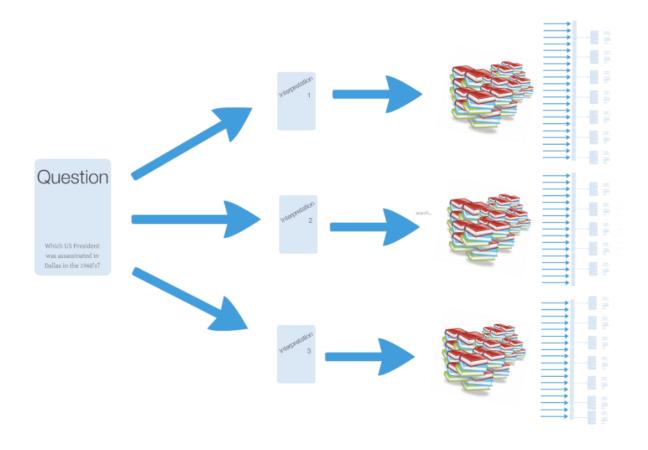
anniversary

India

explorer

On the 27th of May 1498, Vasco de Gama landed on Kappad Beach

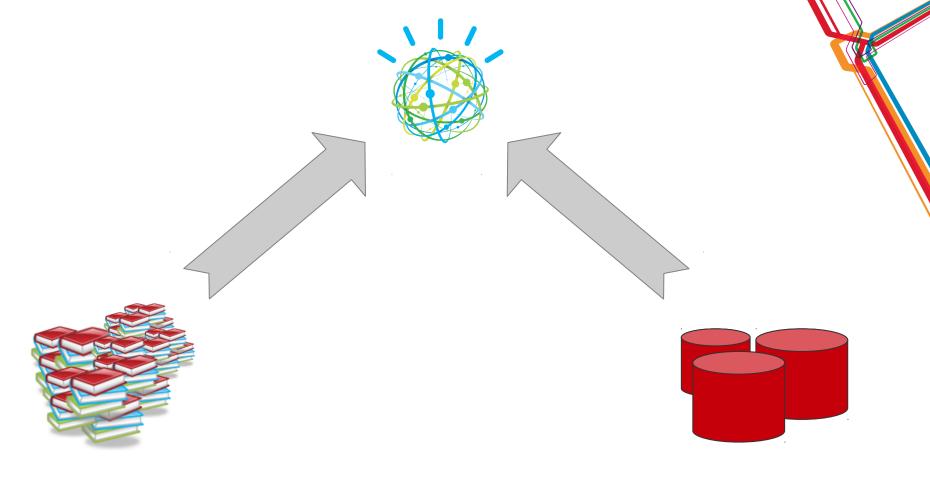




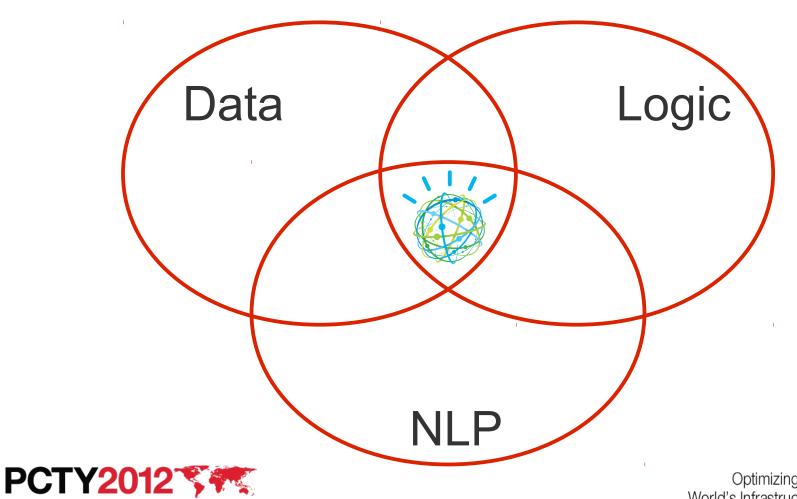
Possible answer 87%
Possible answer 34%
Possible answer 23%

. . .









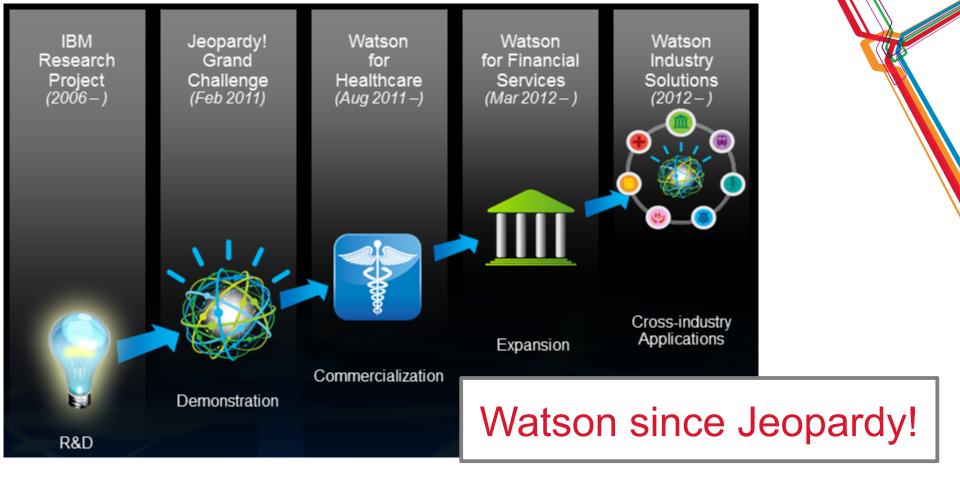
Question Answering

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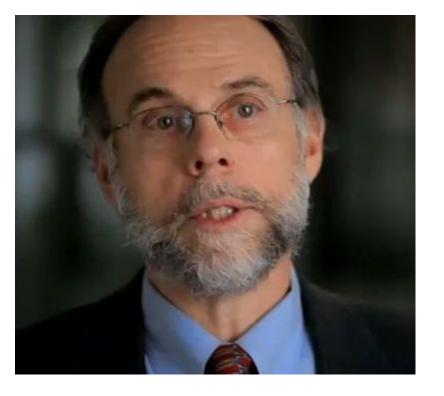
YOU JUST NEED A NAP! YOU DON'T HAVE THIS SLEEP DISORDER THAT CAN MAKE SUFFERERS NOD OFF WHILE STANDING UP













COLUMBIA UNIVERSITY MEDICAL CENTER

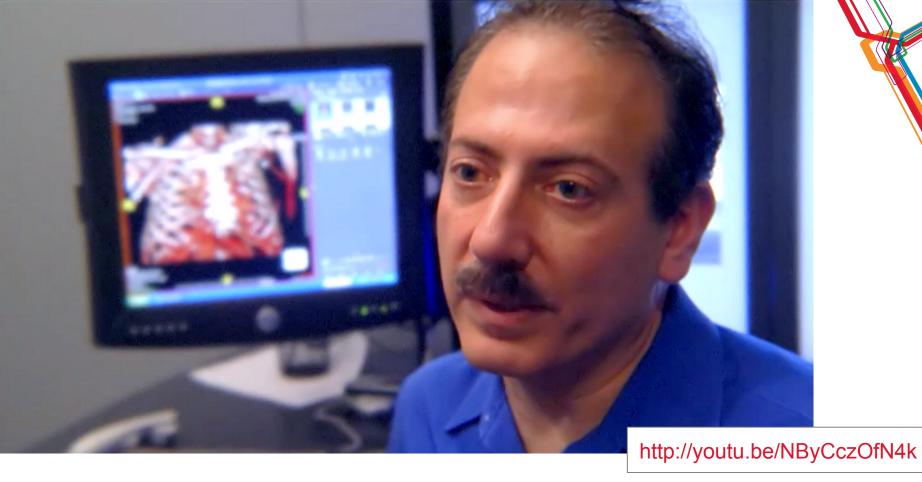
Discover. Educate. Care. Lead.















One of the largest health benefits companies in the United States

Together with it's subsidiaries, serves more than 65 million people

One in nine Americans receives coverage for their medical care through WellPoint







IBM Watson pilots with WellPoint

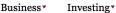
Clinical decision support tool for use by WellPoint's Registered Nurses responsible for managing complex patient cases and reviewing treatment requests from medical providers



IBM Watson pilots with WellPoint

Trialling use in oncology practices to support the evidence-based diagnosis, treatment, and coordination of care of cancer patients





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Tom Groenfeldt, Contributor
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TECH | 2/01/2012 @ 2:19PM | 3,596 views

IBM's Watson, Cedars-Sinai and WellPoint Take On Cancer

+ Comment now

WellPoint and IBM are working with oncology experts at the Cedars Sinai Cancer Institute in Los Angeles to educate Watson as a physician's assistant. Watson, an IBM computing system proved on Jeopardy! that a computer can collect and understand vast amounts of information and provide answers.

That was fine for a game show — now Watson is being put to work digesting millions of pages of research, incorporating the best clinical practices and monitoring the outcomes to assist physicians in treating cancer patients.

"This is an opportunity to use supercomputing powers to bring vast amounts of data to the practicing physicians while making it understandable," said Dr. Harlan Levine, executive vice president for comprehensive health solutions at WellPoint, the health benefits company. Watson can assimilate two million pages of information every three seconds.

WellPoint and IBM agreed to start with oncology because it is so complex and has so many opportunities to use supercomputing to improve the quality and consistency of health care.

Most Popular

O



Tom Groenfeldt

- ...

I write about finance and technology, which can range from supercomputers to iPhones and iPads, which have made inroads into enterprise computing in the last year. It's a fast-moving world with just a bit of hype, so figuring out what's real is a challenge, and spotting emerging trends is a feat that offen comes from listening and deciphering.

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The author is a Forbes contributor. The opinions expressed are those of the writer.

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Question Answering

How Watson works

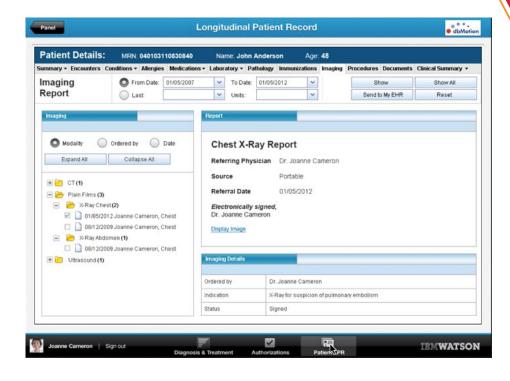
IBM Watson since Jeopardy!

What comes next for Watson?



Understanding complex scenarios

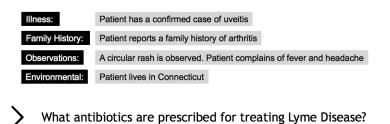
YOU JUST NEED A LITTLE MORE SUN! YOU DON'T HAVE THIS HEREDITARY LACK OF PIGMENT





Interactive question dialog



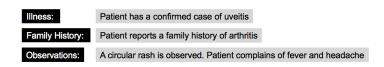


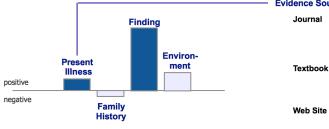
Doxycycline - 97% Amoxicillin - 68% Ceftriaxone - 30% Cefuroxime - 29% Tetracycline - 29%



Evidence profiles explaining answers







Evidence Sources (Present Illness)

... Although the majority of cases are idiopathic and the patients have no systemic disease, a significant association between immediate uveitis and sarcoidosis, multiple sclerosis and Lyme disease is widely accepted ...

The most common causes of intermediate uveitis are idiopathic (69.1%), sarcoidosis (22.2%), multiple sclerosis (MS), and Lyme Disease (0.6%) ...

... Although the majority of cases are idiopathic and the patients have no systemic disease, a significant association between immediate uveitis and sarcoidosis, multiple sclerosis, and Lyme disease is widely accepted ...



Continuous incremental ingestion





One user

Multiple users

One question at a time

Multiple concurrent questions

Stand-alone stateless questions

Stateful dialog with multiple questions

Priority is accuracy of the top answer

Priority is accuracy of top answers

Training on new content

Incremental ingestion, training, learning

Returns answers

Returns answers, evidence & suggestions

Text-only input

Text, tables and images as input

Broad, shallow content

Deep, industry-specific content

No security

High security configurations



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