## Leading the way into the Cognitive Era with IBM Watson

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Agenda

Watson Overview

Watson Use Cases

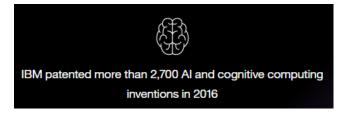
Watson Cognitive Services

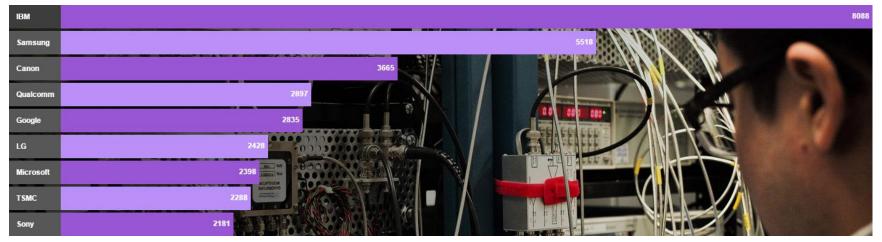




#### **Everything started with a Research project...**

# Patent Leadership IBM Research is the innovation arm of IBM, driving 24 consecutive years of U.S. patent leadership and sustaining IBM's commitment to being the world's technology and innovation leader.





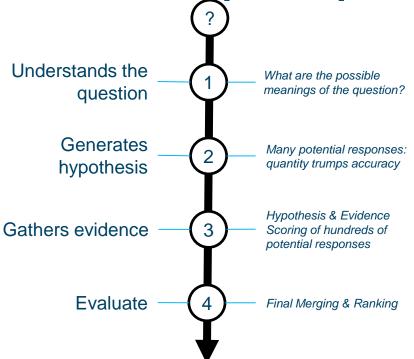


### 2011: IBM Watson wins « Jeopardy! »





## How to respond quickly and accurately?





## Three capabilities differentiate cognitive systems from traditional programmed computing systems...



#### Understanding

Cognitive systems understand like humans do.



#### Reasoning

They reason. They understand underlying ideas and concepts. They form hypothesis. They infer and extract concepts.

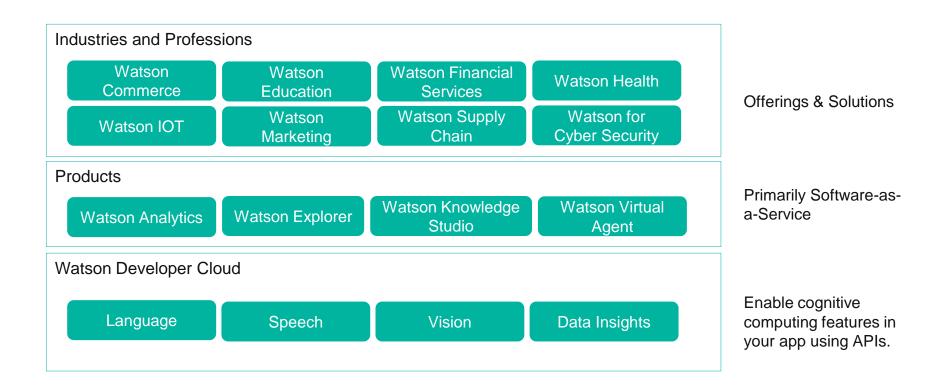


#### Learning

They never stop learning getting more valuable with time. Advancing with each new piece of information, interaction, and outcome. They develop "expertise".

.... allowing them to interact with humans.

#### What is Watson today?



Cognitive systems forge a new partnership between man and machine.



Compassion

Abstraction

Dilemmas
Dreaming
Generalization

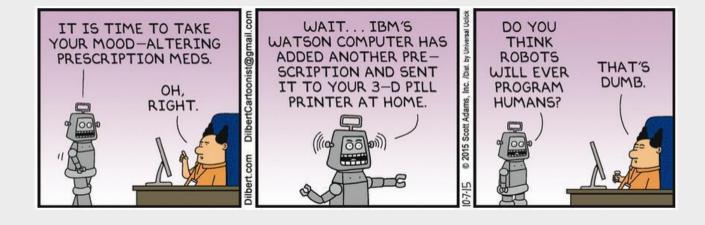
Cognitive Systems excel at:

Locating Knowledge
Pattern Identification
Natural Language
Machine Learning
Eliminate Bias

Eliminate Bias
Endless Capacity

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#### So, will artificial intelligence replace us?





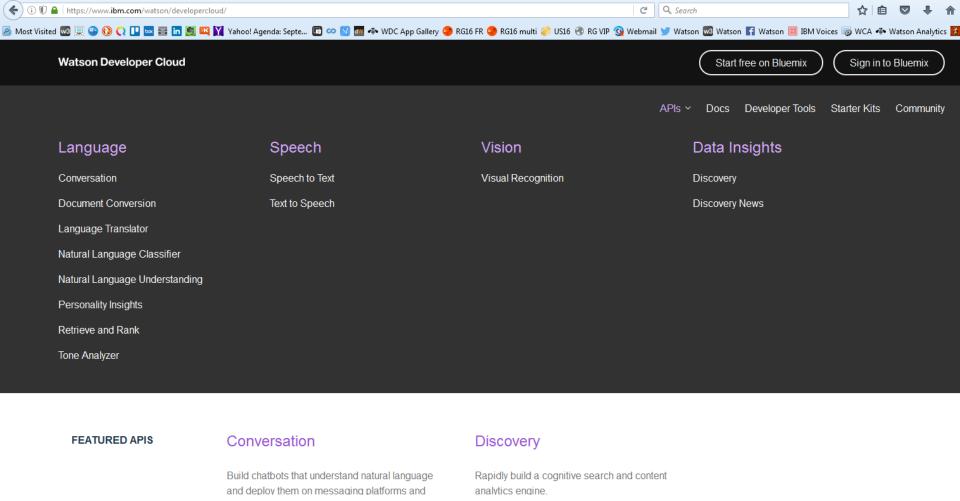
#### Pioneering new ways to shop



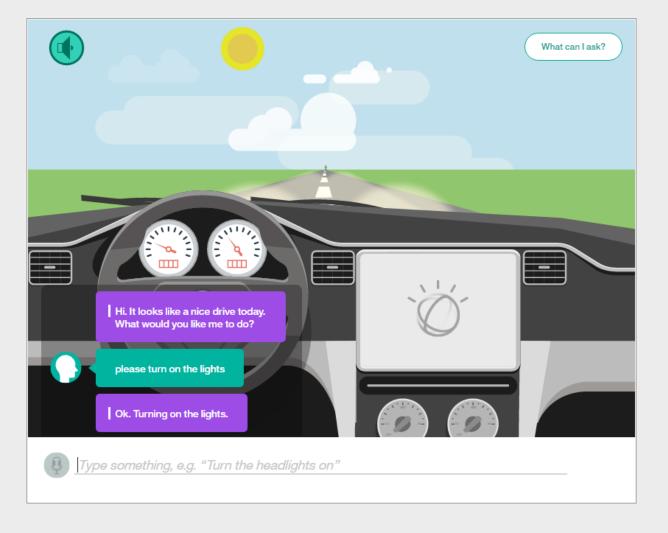
"With Staples Easy System, ordering will transcend the limitations of apps and browsers, giving customers access to nearly 500,000 products ranging from office and breakroom supplies to furniture and technology products and services, anytime, anywhere and on any device, using the interface that is most convenient to them."







#### Conversation



#### Discovery

Add a cognitive search and content analytics engine to applications to identify patterns, trends and actionable insights that drive better decisionmaking









Articles about P
cognitive computing inv



President's involvement in education

#### Articles JSON

Search articles over

12/08/2016 - 12/15/2016

Where

Barack Obama

is mentioned

as a Person

and the Sentiment is

Any

where the Taxonomy is

Education

Search articles over

Title

#### Query

/discovery-experimental/api/v1/environments/bb6ffe96-53d5-44b3-8838-92dd1664df8d/collections/0288e2a0-a1c1-4a38-a376-3c3bd89e927b/query?version=2016-11-09&count=10&filter=taxonomy:(label:education),entities: (text:Barack%200bama,type:person),publicationDate.date%3E%3D20161208&return=enrichedTitle.text,url,author,entities,concepts,taxonomy

#### Results

6 Ways the Next President Can Improve Education

http://time.com/4545088/next-president-education/

https://discovery-news-demo.mybluemix.net/



### Building a virtual assistant at the French Open



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