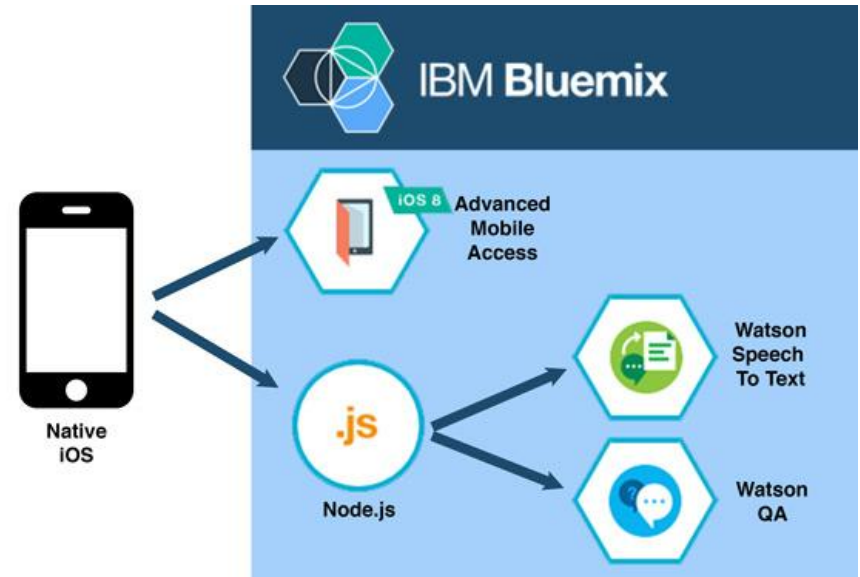


# IBM Watson Services



# Overview

- Watson - QA System by IBM
  - Uses IBM's DeepQA, Apache UIMA Apache Hadoop
- BlueMix - IBM (PaaS) Cloud Service
  - offers integration with the Watson Services



# Watson Services

<p><b>LANGUAGE</b></p> <ul style="list-style-type: none"><li>Dialog/Conversation</li><li>Document Conversion</li><li>Language Translator</li><li>Natural Language Classifier</li><li>Natural Language Understanding</li><li>Personality Insights</li><li>Retrieve and Rank</li><li>Tone Analyzer</li></ul>	<p><b>SPEECH</b></p> <ul style="list-style-type: none"><li>Speech to Text</li><li>Text to Speech</li></ul>
<p><b>VISION</b></p> <ul style="list-style-type: none"><li>Visual Recognition</li></ul>	<p><b>DATA INSIGHTS</b></p> <ul style="list-style-type: none"><li>Discovery</li><li>Discovery News</li><li>Tradeoff Analytics</li></ul>

# IBM Watson Conversation Service

- Natural-language interface for user interaction in a way that simulates a conversation between humans
  - <https://www.ibm.com/watson/developercloud/doc/conversation/sample-applications.html>
- Intents
  - Grouping of purpose or goal expressed (eg. #turn\_off)
- Entities
  - Class of object or a data relevant to Intent (eg. @engine)
- Dialog
  - Uses the intents and entities to provide responses (Tree)

# IBM Watson Speech to Text

- Voice-controlled applications, dictates, meetings
- Supports multiple languages (no German at the moment)
- Intelligent understanding based on grammar rules and language structure
- Multiple speakers
- Keyword spotting
- Also Text to Speech API

# Links

- Services: <https://www.ibm.com/watson/developercloud/services-catalog.html>
- Examples: <https://www.ibm.com/watson/developercloud/starter-kits.html>
- Conversation: <https://www.ibm.com/watson/developercloud/doc/conversation/getting-started.html>
- Speech to Text: <https://www.ibm.com/watson/developercloud/speech-to-text.html>