

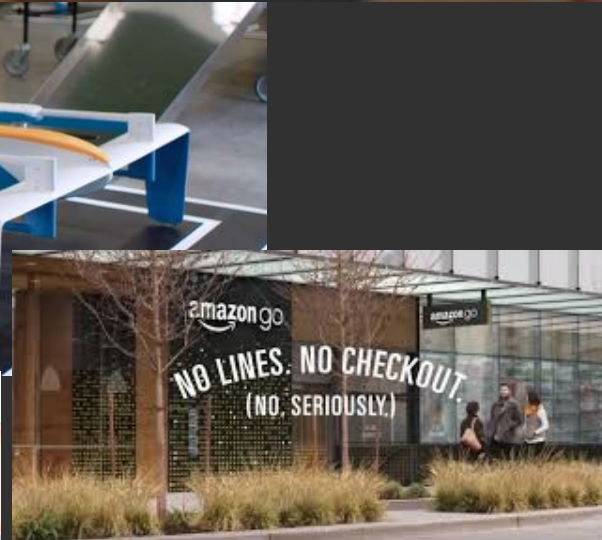
# An introduction to Amazon AI

Julien Simon

Principal Technical Evangelist, AWS

@julsimon





# Amazon AI: Three New Deep Learning Services



**Lex**

Conversational  
Engine



**Polly**

Life-like Speech



**Rekognition**

Image Analysis

# Amazon Lex

# Text and Speech Language Understanding

Speech  
Recognition

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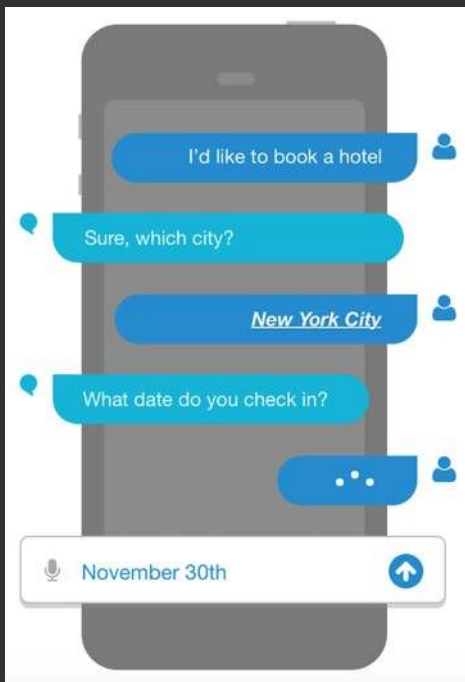
Natural Language  
Understanding

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Powered by the same Deep Learning technology as Alexa

# Lex Bot Structure

## BookHotel



### Intents

An Intent performs an action in response to natural language user input

### Utterances

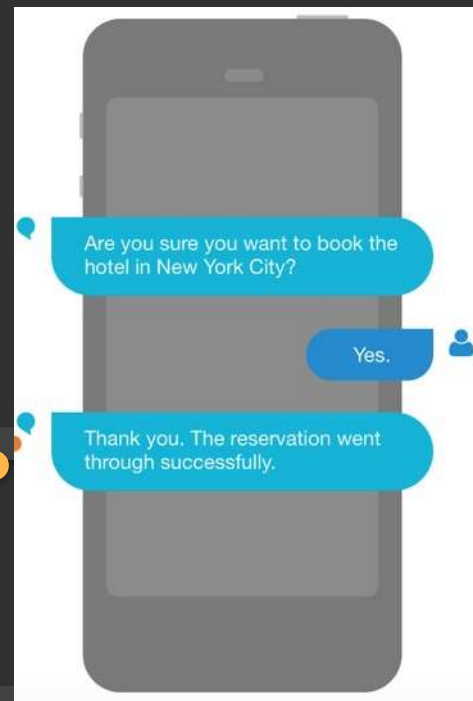
Spoken or typed phrases that invoke your intent

### Slots

Slots are input data required to fulfill the intent

### Fulfillment

Fulfillment mechanism for your intent



# Amazon Polly

# Amazon Polly

- A service that converts text into lifelike speech
- Offers 47 lifelike voices across 24 languages
- Low latency responses enable developers to build real-time systems
- Developers can store, replay and distribute generated speech



# Amazon Polly: Language Portfolio

## EMEA:

- British English
- Danish
- Dutch
- French
- German
- Icelandic
- Italian
- Norwegian
- Polish
- Portuguese
- Romanian
- Russian
- Spanish
- Swedish
- Turkish
- Welsh
- Welsh English

## Americas:

- Brazilian Portuguese
- Canadian French
- English (US)
- Spanish (US)

## APAC:

- Australian English
- Indian English
- Japanese



# Amazon Rekognition

# Amazon Rekognition

Deep learning-based image recognition service  
Search, verify, and organize millions of images



Object and Scene  
Detection



Facial  
Analysis



Face  
Comparison



Facial  
Recognition

# Apache MXNet

# Apache MXNet: Object Detection on a Raspberry Pi

<https://medium.com/@julsimon/an-introduction-to-the-mxnet-api-part-6-fcdd7521ae87>



GoPiGo

@CallMeJohnnyPi



Arduino Yun



AWS IoT Button



AWS IoT

**mxnet**



**Amazon AI**

Intelligent Services Powered By Deep Learning

<https://www.meetup.com/AWS-Bulgaria/>

## AWS Bulgaria #7 - AI on a Pi



Export



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**Tuesday, May 30, 2017**

6:45 PM



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Bul. Simeonovslo shose 104, Sofia ([map](#))

Hi, all AWS Bulgaria members!

We have another special guest from AWS - Julien Simon, Technical Evangelist at AWS. Julien will tell us more about the hot topic of Machine Learning, AWS and Raspberry Pi with his presentation called: AI on a Pi.

# благодаря !

Julien Simon

Principal Technical Evangelist, AWS

@julsimon

