





# Your First Amazon Alexa Skill

Mike Christianson

Senior Software Engineer

Leader, Phoenix Software  
Engineering Reading Group  
at Gangplank

<http://codeaweso.me>  
@MikeCodeAwesome

# Agenda

**Create, test, deploy, and use a new Skill**

- How to use a Skill
- Learn what a Skill is
- Understand the parts of a Skill
- Review, test, deploy, and use Hello World

# Following along? You need\*:

**Amazon Dev Account** developer.amazon.com

**AWS Account** aws.amazon.com

**Tools** Node 4.3, zip or 7zip, git

```
git clone https://github.com/alexa/skill-sample-nodejs-hello-world
```

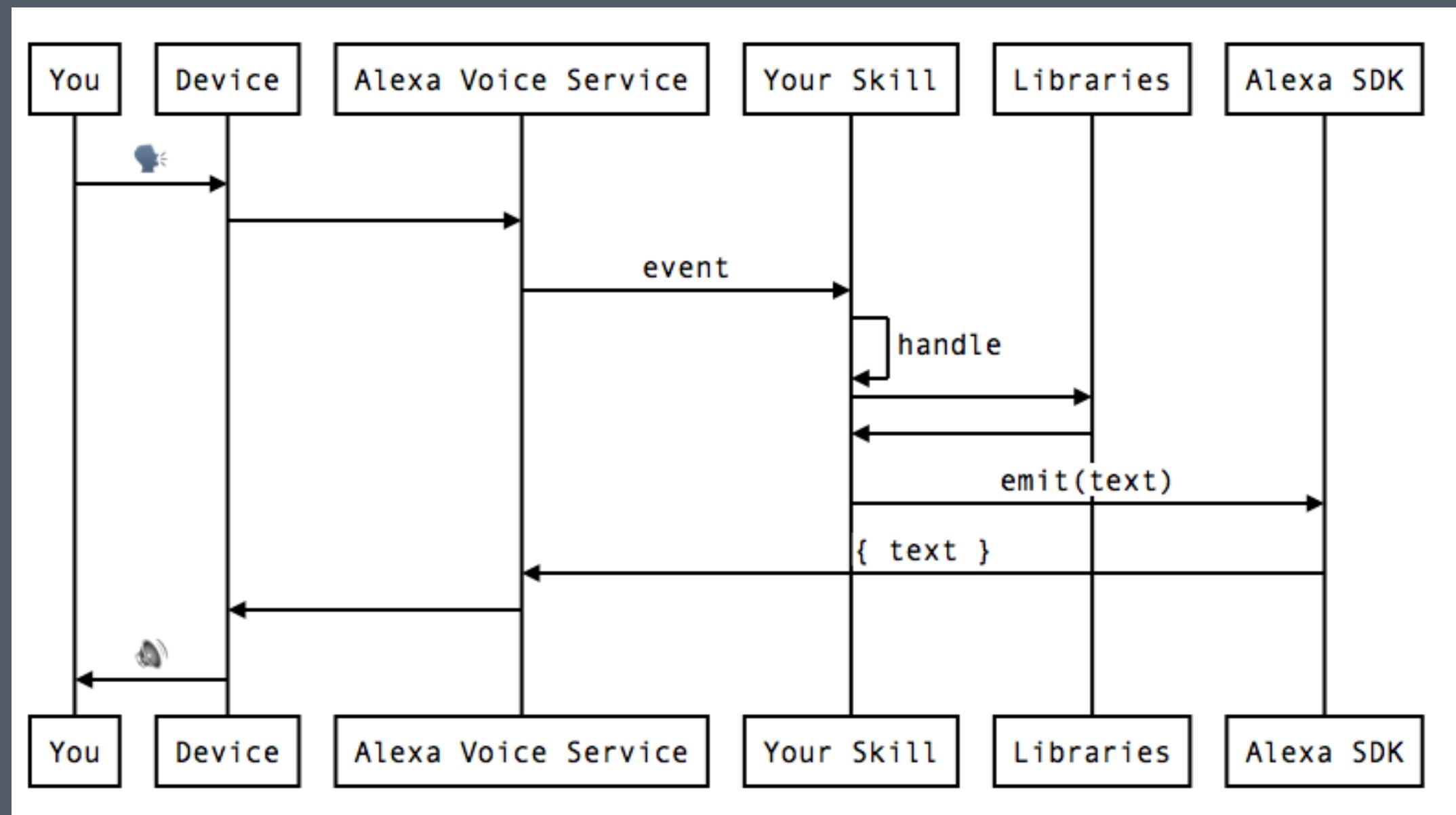
\* Also at <http://oct2016.desertcodecamp.com/session/1210>

# skill invocation

**Alexa, ask Age Calculator how old is someone born June 12, 2015?**

**{wake\_word} {ask|tell|do|...} {invocation\_name} [{to} intent {slot, ...}]**

# Alexa ask/response overview



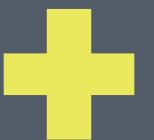
# skills

## **Software for Alexa**

- runs on a server
- skill isolation
- request/response
- UI and logic

# User Interface

the model of interaction, what people can say



# Logic

how the interactions are handled

# User Interface

# intents and slots

- **what people can do**
  - [calculate an age]
  - [order a pizza]
- **data people can provide**
  - [date] / [pizza topping]

## User Interface

# Utterances

→ **what people can say**

[what time is it]

[sing happy birthday]

[how old is someone born {date slot}]

**Utterance → Intent → Logic**

**"How old is someone ..."**

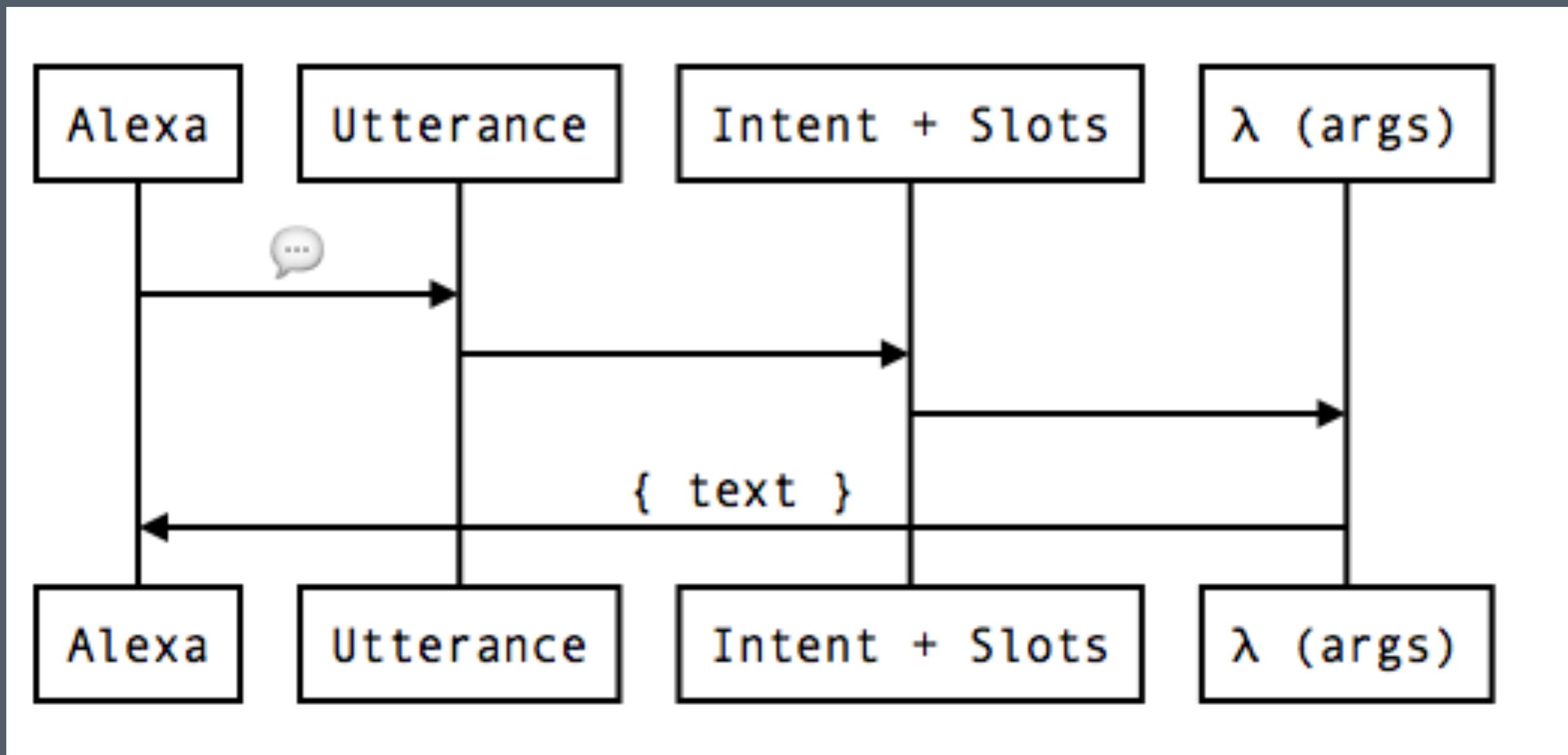


**CalculateAgeIntent {Date}**



**function calculateAge(date)**

# Utterance → Intent → Logic



## Logic (Computation)

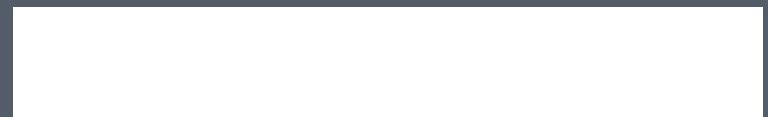
# AWS Lambda<sup>‡</sup> or Web Service

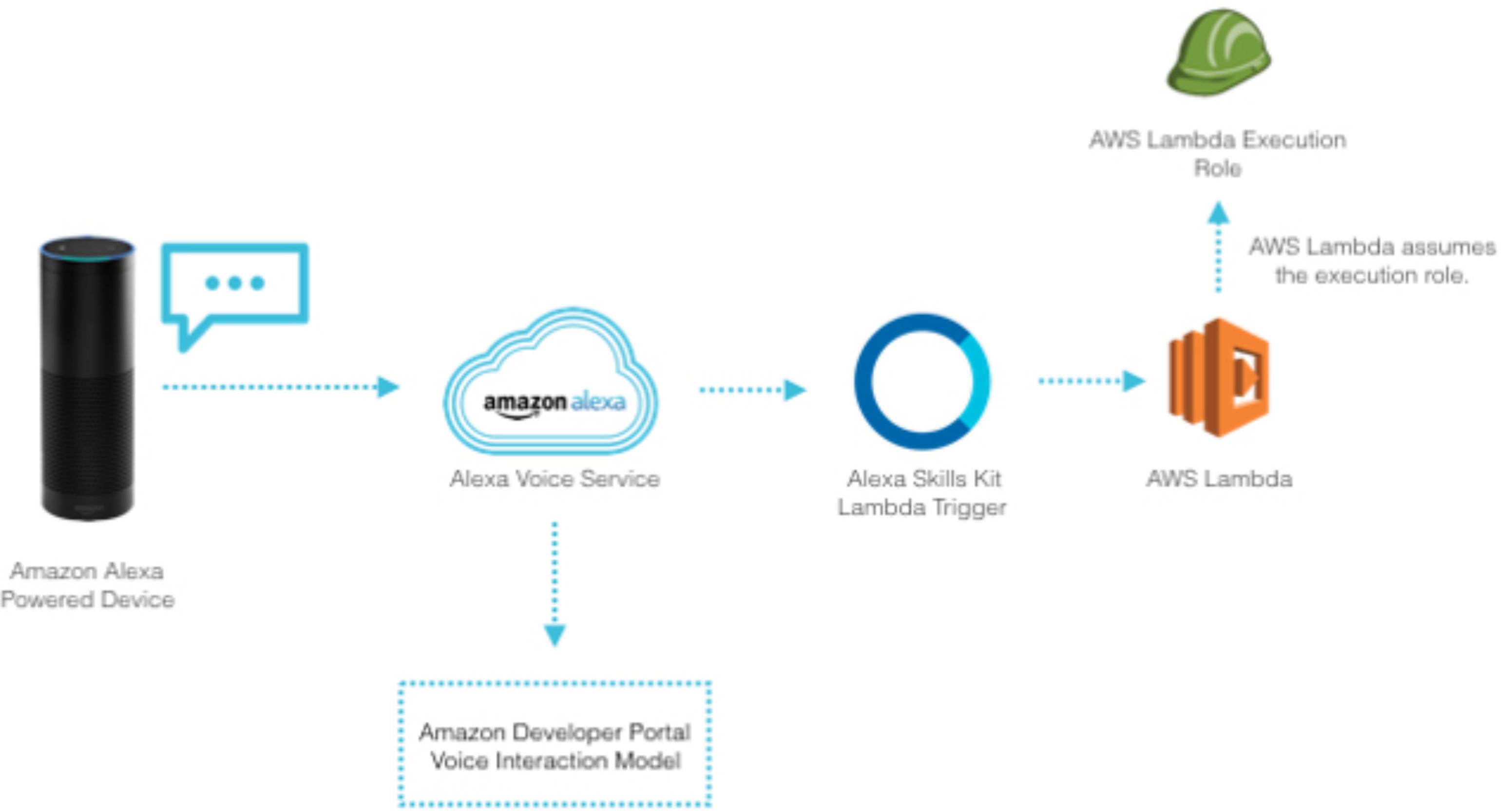
→ handles interactions  
receives an Intent event with Slots  
generates responses

<sup>‡</sup> "AWS Lambda lets you run code without provisioning or managing servers."

# Hello World!

- Clone repo
- Utterances
- Intents (& Slots)
- Logic
- Lambda
- Alexa





# Goodbye, Hello World!



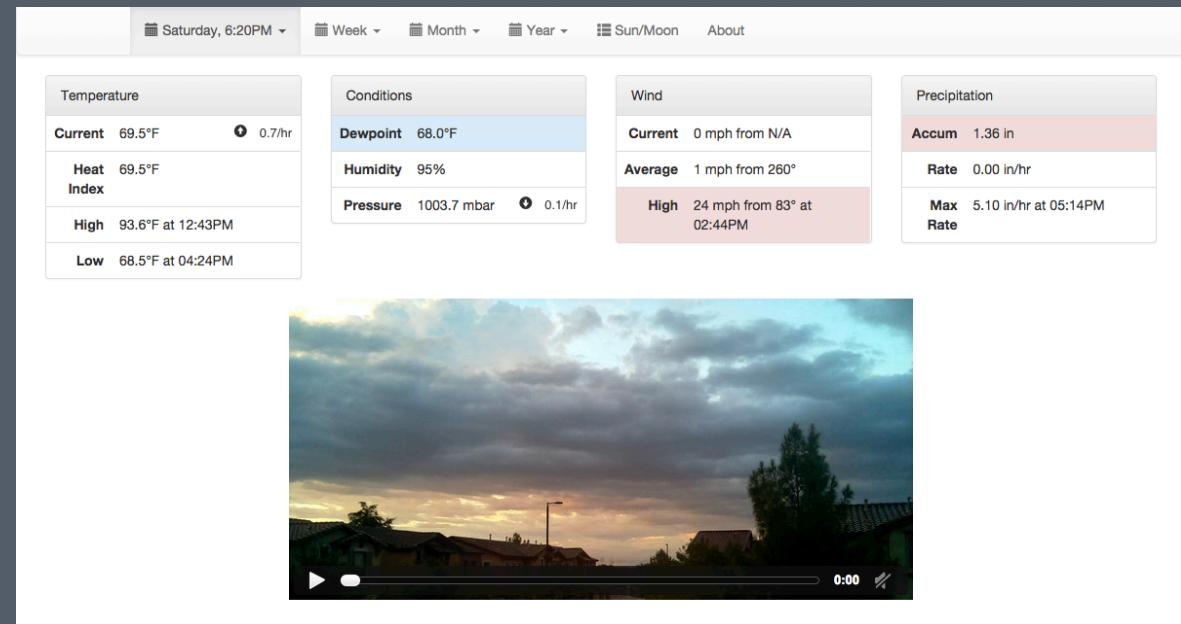


# My Weather Station

- wind speed
- wind direction
- temperature
- humidity / dewpoint
- air pressure
- precipitation

# MikesWeather.net

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[mikesweather.net/wx.json](https://mikesweather.net/wx.json)

# Mike's Station Skill

- **New Utterances**
- **New Intents (& Slots)**
  - **New Logic**
- **Update Lambda**
- **Update Alexa**



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Slides and code available on <http://codeaweso.me>.

# Thank you!