



Your First Amazon Alexa Skill

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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
```

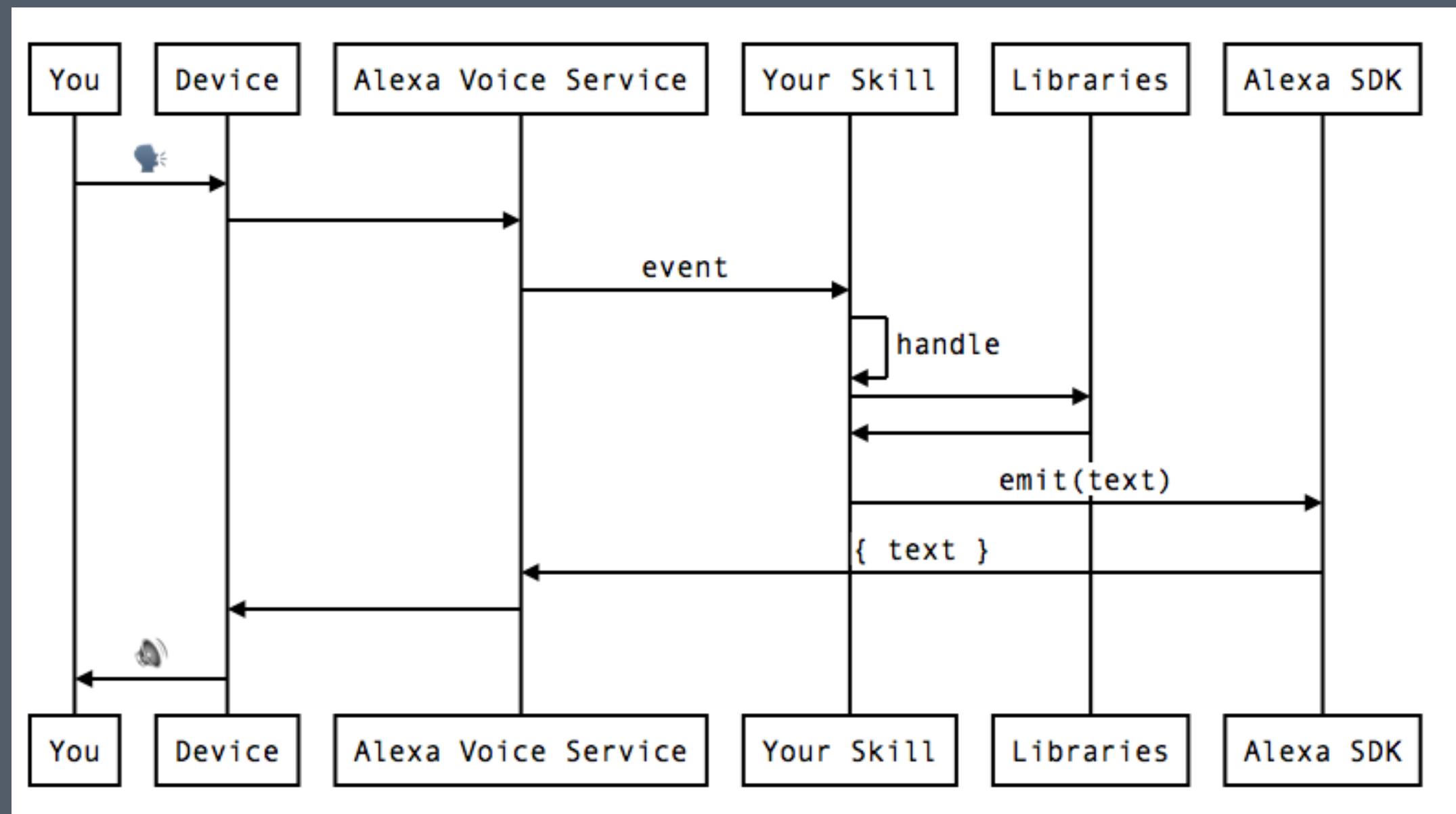
* Also at <http://oct2016.desertcodecamp.com/session/1210>

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



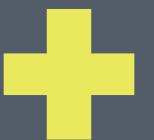
skills

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 ..."

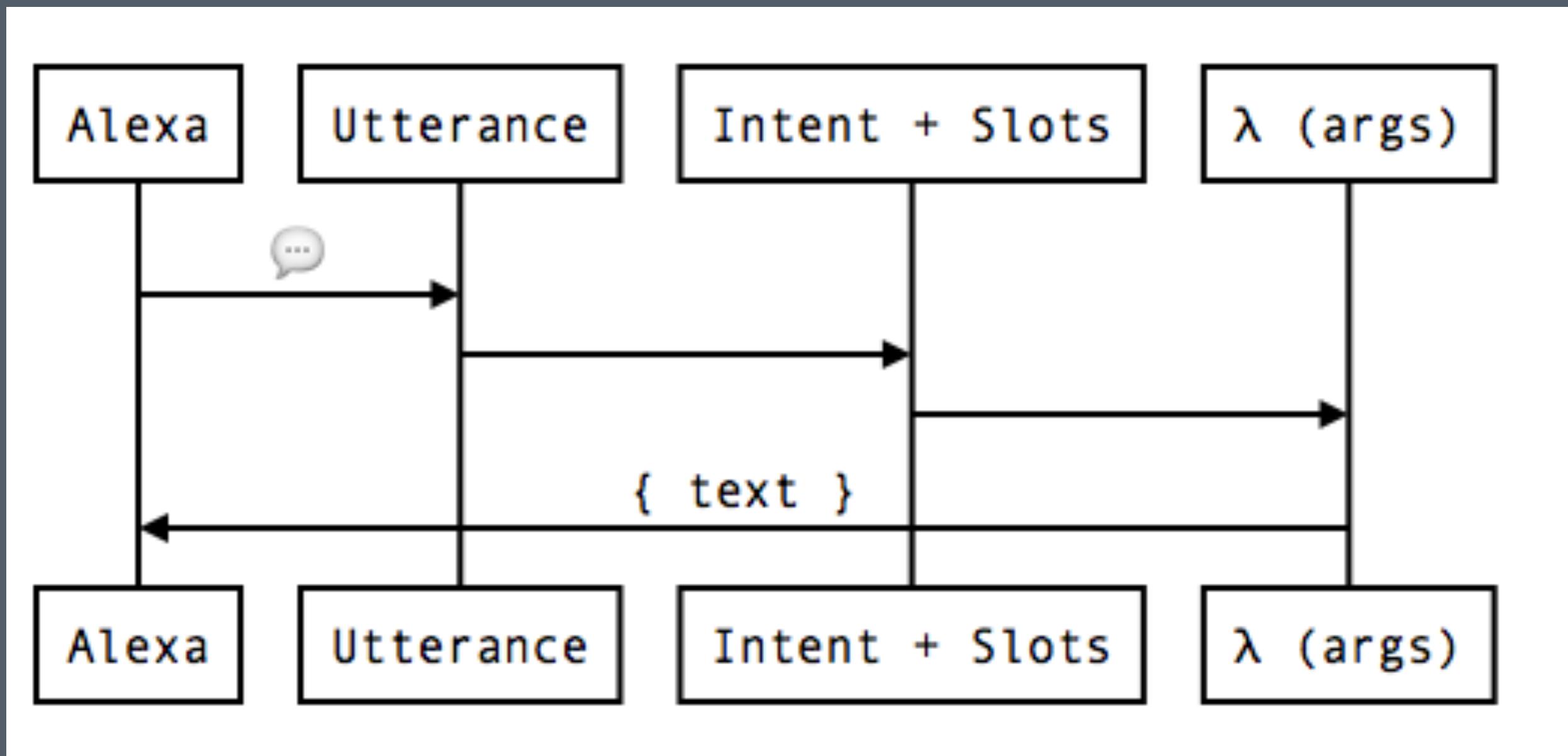


CalculateAgeIntent {Date}



function calculateAge(date)

Utterance → Intent → Logic



Logic (Computation)

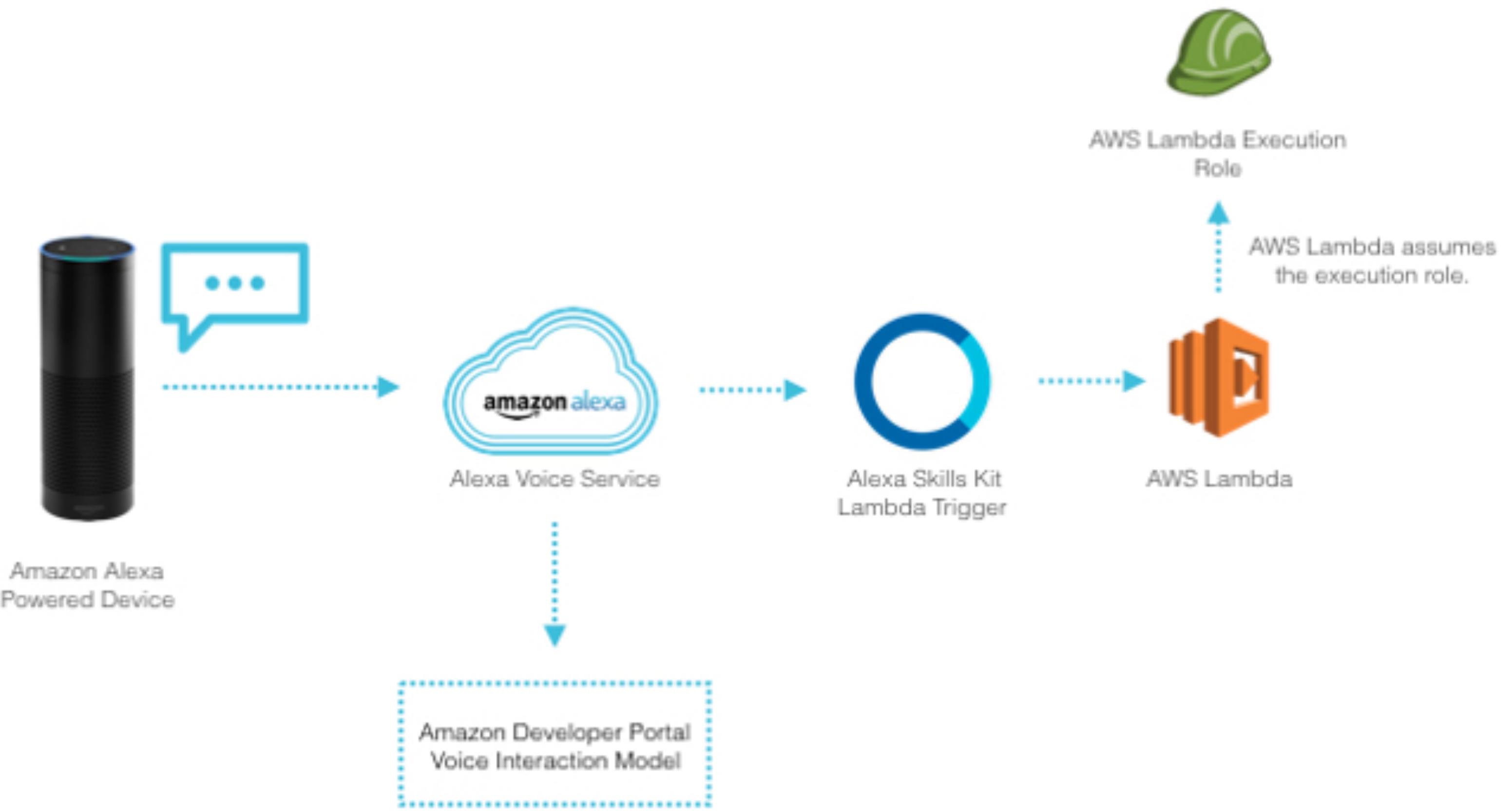
AWS Lambda[‡] or Web Service

→ handles interactions
receives an Intent event with Slots
generates responses

[‡] "AWS Lambda lets you run code without provisioning or managing servers."

Hello World!

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



Goodbye, Hello World!

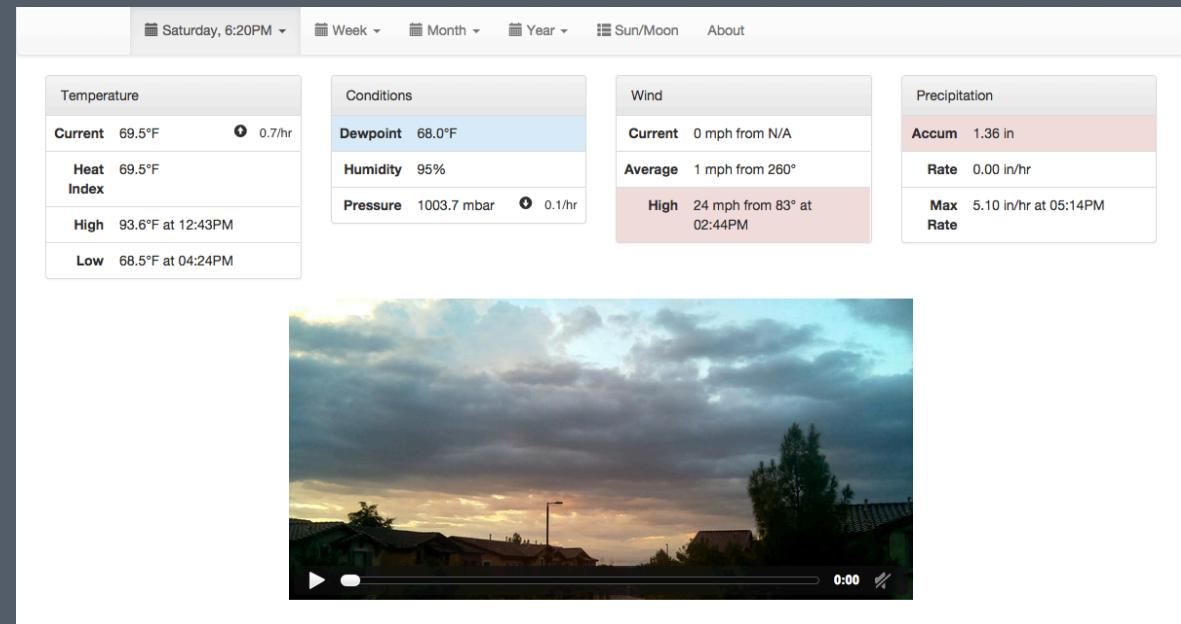




My Weather Station

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

MikesWeather.net



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!