

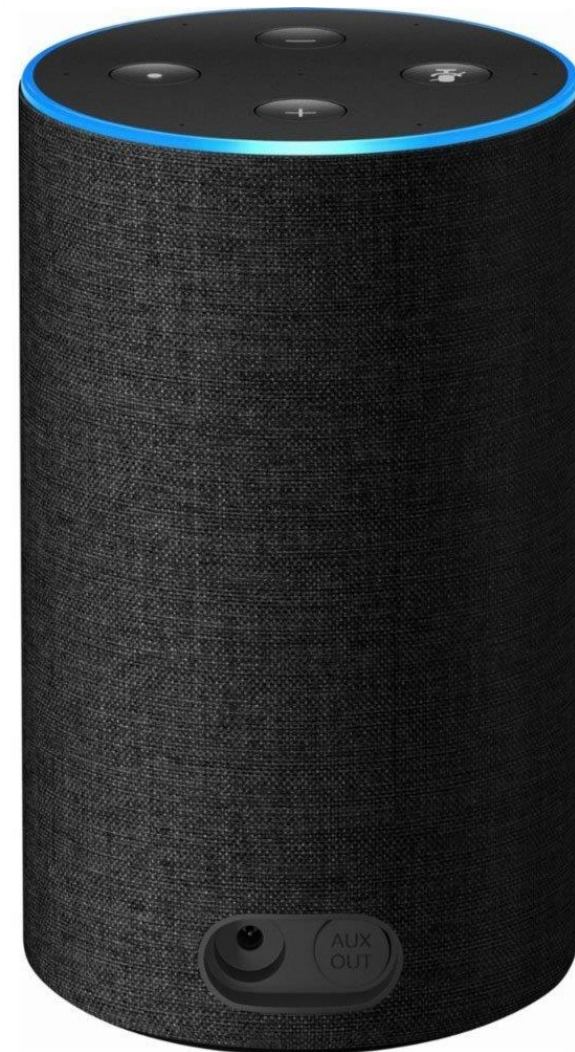


# Talking to Alexa

Steven Pears

# Who is Alexa?

Amazon's Digital Assistant



# Who is Alexa?



# Who is Alexa?



Who am I?

▼ stoiveyp

 Alexa.NET.CustomerProfile


 Alexa.NET.FluentResponse

 Alexa.NET.Gadgets

 Alexa.NET.InSkillPricing


 Alexa.NET.ListManagement

 Alexa.NET.Management

 Alexa.NET.Management.UWPApp

 Alexa.NET.MD2Ssml

 Alexa.NET.Notifications

 Alexa.NET.RequestHandlers

 Alexa.NET.Samples

 Alexa.NET.SampleSkill

 Alexa.NET.Settings

 Alexa.Net.Sharing

 Alexa.NET.SkillManagementApp

# Who am I?

Work for  experian.

.NET Developer

Introvert

# Conversations

Conversations are a lot of effort

With text they're open to misinterpretation

Help your users with voice



# Client Brief

Meetup Skill

Let the user know about upcoming events

New Market – iterate



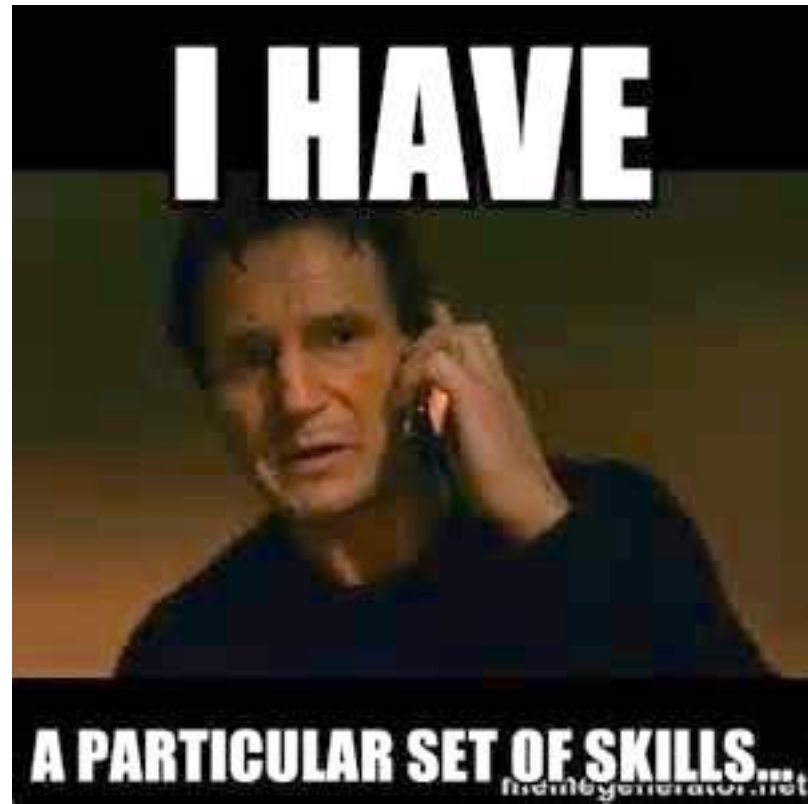
# IT1: Flash Briefing

Not interactive

RSS Content

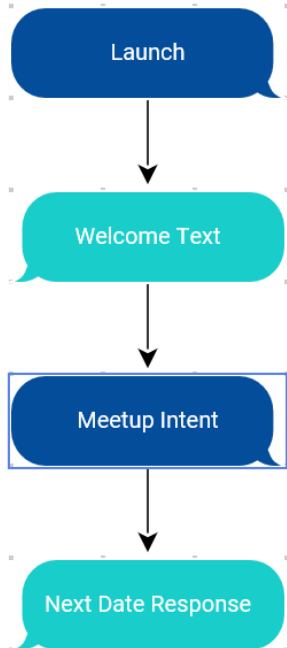
Text or Audio

## IT2: Real Conversation



# IT2: Custom Skill

# tortu.io



Welcome Text

Welcome to the demo talk

Open Demo Talk

Meetup Intent

What meetups are next week?

# IT2: Basic Structure



Launch

Open Demo Talk

Welcome Text

Welcome to the demo talk

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English (UK)

Save Model

Build Model

## CUSTOM

Interaction Model

Invocation

> Intents (5) + Add

Slot Types (0) + Add

JSON Editor

Interfaces

Endpoint

## Invocation

Users say a skill's invocation name to begin an interaction with a particular custom skill. For example, if the invocation name is "daily horoscopes", users can say:

**User: Alexa, ask daily horoscopes for the horoscope for Gemini**

Skill Invocation Name ?

demo talk

# IT2: Example Request

```
{
  "version": "1.0",
  "session": {
    "new": true,
    "sessionId": "amzn1.echo-api.session.0000000-0000-0000-0000-000000000000",
    "application": {
      "applicationId": "amzn1.echo-sdk-ams.app.000000-d0ed-0000-ad00-000000d00ebe"
    },
    "attributes": { },
    "user": {
      "userId": "amzn1.account.AM3B000000000000000000000000"
    }
  },
  "request": {
    "type": "LaunchRequest",
    "requestId": "amzn1.echo-api.request.0000000-0000-0000-0000-000000000000",
    "timestamp": "2015-05-13T12:34:56Z"
  }
}
```



# IT2: Magic at the start



Launch

Open Demo Talk

Welcome Text

Welcome to the demo talk

# IT2: Business Logic

AWS Lambda?

Web API?

Your choice!

# IT2: Launch Code

```
public class Launch:IAlexaRequestHandler
{
    public bool CanHandle(AlexaRequestInformation information)
    {
        return information.SkillRequest.Request is LaunchRequest;
    }

    public Task<SkillResponse> Handle(AlexaRequestInformation information)
    {
        var response = ResponseBuilder.Ask(
            "Hi there and welcome to demo talk. What events can we help you find?",
            new Reprompt("What events can we help you with today?"));
        return Task.FromResult(response);
    }
}
```

## IT2: Response

```
{
  "version": "1.0",
  "response": {
    "outputSpeech": {
      "type": "PlainText",
      "text": "Welcome to the demo talk"
    },
    "shouldEndSession": false
  }
}
```

# IT2: Magic at the end

Launch

Open Demo Talk



Welcome Text

Welcome to the demo talk

# IT3: Next Meetup



Meetup Intent

What meetups are next week?

Meetup Intent

Are there any meetups tomorrow?

Next Date Response

The meetup is right now



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Interaction Model

Invocation

Intents (6)

 Add



# IT3: Intent Request

```
"request": {  
  "type": "IntentRequest",  
  "dialogState": "IN_PROGRESS",  
  "requestId": "amzn1.echo-api.request.0000000-  
  "timestamp": "2015-05-13T12:34:56Z",  
  "intent": {  
    "name": "Meetups",  
    "slots": {  
      "timeslot": {  
        "name": "timeslot",  
        "value": "2018-09-26T00:00:00Z"  
      }  
    }  
  }  
}
```

# IT3: Intent Handler

```
public class TimelineEvent:IAlexaRequestHandler
```

```
{
```

```
3 references | Steven Pears, 30 days ago | 1 author, 1 change
```

```
public bool CanHandle(AlexaRequestInformation information)
```

```
{
```

```
    return information.SkillRequest.Request is IntentRequest intentRequest && intentRequest.Intent.Name == "Meetups";
```

```
}
```

```
3 references | Steven Pears, 30 days ago | 1 author, 1 change
```

```
public Task<SkillResponse> Handle(AlexaRequestInformation information)
```

```
{
```

```
    var intentRequest = information.SkillRequest.Request as IntentRequest;
```

```
    var slots = intentRequest.Intent.Slots;
```

```
    if (!slots.ContainsKey("timeslot"))
```

```
    {
```

```
        return NextEvent();
```

```
    }
```

```
    return EventsInTimeline(slots["timeslot"].Value);
```

```
}
```

# IT3: Intent Response

???

---

are in your app"

# IT3: Stretch Goal

Surprise!

Management had an idea



## How About - Chicken Curry

Recipedia

Ok, how about Chicken Curry from Recipedia. This recipe and is medium difficulty. You can hear the details or hear

Voice feedback

▶ Alexa heard: "what can i cook with chicken"

Did Alexa do what you wanted?

Yes

No

Remove card

# Card

Image



## How About - Chicken Curry

Recipedia

Ok, how about Chicken Curry from Recipedia. This recipe and is medium difficulty. You can hear the details or hear



Title



Content

# Card

Image



## How About - Chicken Curry

Recipedia

Ok, how about Chicken Curry from Recipedia. This recipe and is medium difficulty. You can hear the details or hear



Title



Content

# Card

```
"card": {  
  "type": "Standard",  
  "title": "Alexa Meetup",  
  "text": "Steven Pears talks about alexa and gets a little meta by putting his talk in his talk",  
  "image": {  
    "smallImageUrl": "https://example.com/smallImage.png",  
    "largeImageUrl": "https://example.com/largeImage.png"  
  }  
}
```



# Card Types

Standard

Simple

Account Linking

Permission Request

# Other enhancements

Session management

In-Skill Purchases

Gadgets!

Try it

Don't need a device

AWS Free Tier

Great docs

<https://developer.amazon.com>

Thank You!

Any Questions?