

Alexa, Create the  
most umbazing  
slides for my talk

If you're serious  
about photography,  
this book is a must-  
read. Consider it  
a necessary guide  
to making it  
2016 MFWPZ

hey  
ch

# Hello



POORNIMA NAYAR

Freelance Developer

Umbraco MVP

PR Team Member

Mother 😊

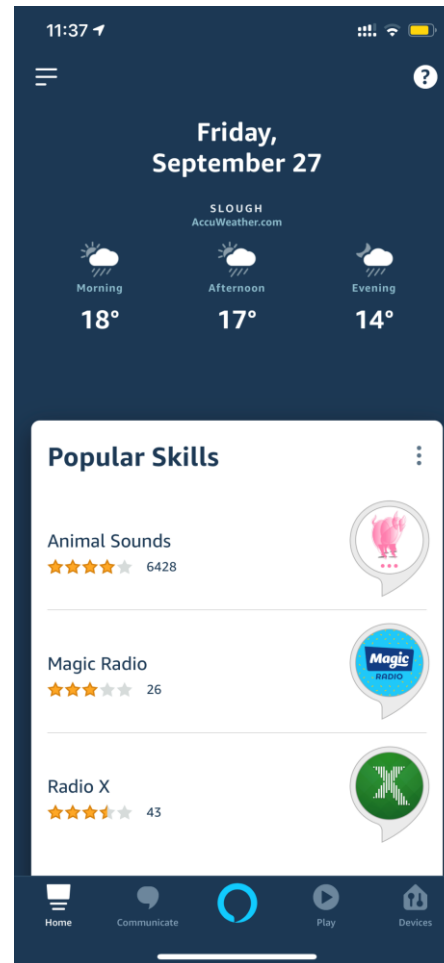
Passion for music

[@poornimanayar](#)


<https://www.linkedin.com/in/poornimanayar>








# Home



## Community in Umbraco

Read more >


More ▾



## Umbraco Festivals

Read more >

More ▾



## Umbraco Meetups

Read more >





Alexa and my daughter share their birthday

# ALEXA SKILLS KIT (ASK)

Collection of self-service APIs, tools,  
documentation, and code



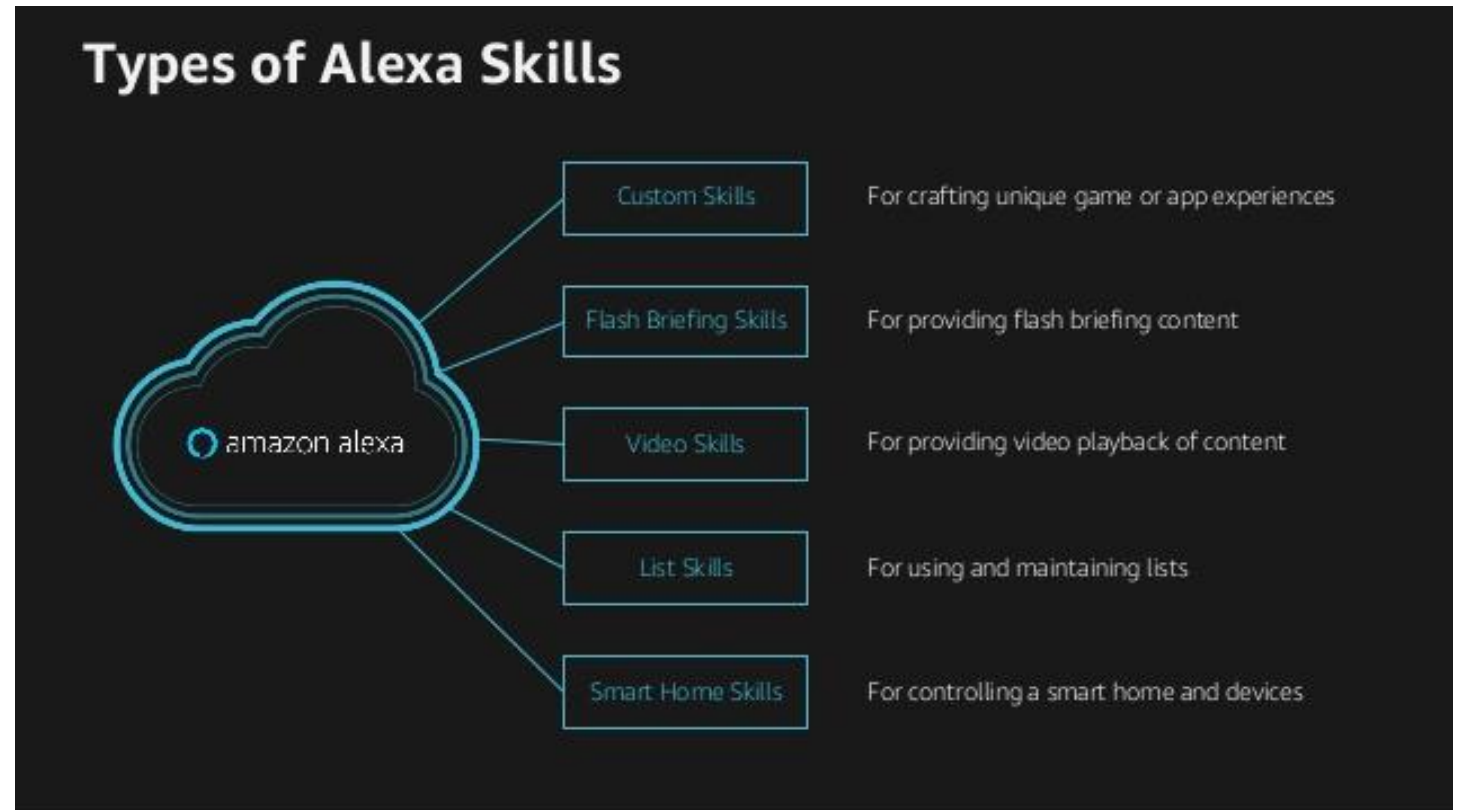
UMBRACO UK FESTIVAL, NOVEMBER 2019



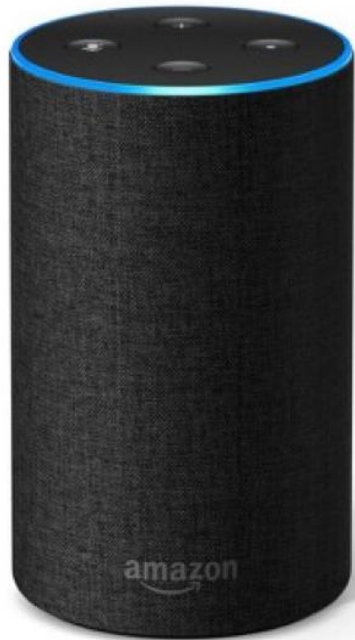


# TYPE OF ALEXA SKILLS

- Flash Briefing Skills
- Video Skills
- List Skills
- Smart Home Skills
- Music Skills
- Cooking Skills
- Custom Skills



**HEY, ALEXA...**



**DO THE DISHES AND FOLD THE LAUNDRY**

**CUSTOM SKILLS**



Welcome to Friendly Events!

how many days to codegarden?



Codegarden '20 starts on 27 May 2020. There are 206 days to Codegarden.

when is the uk fest?



UK fest is on 08 November 2019

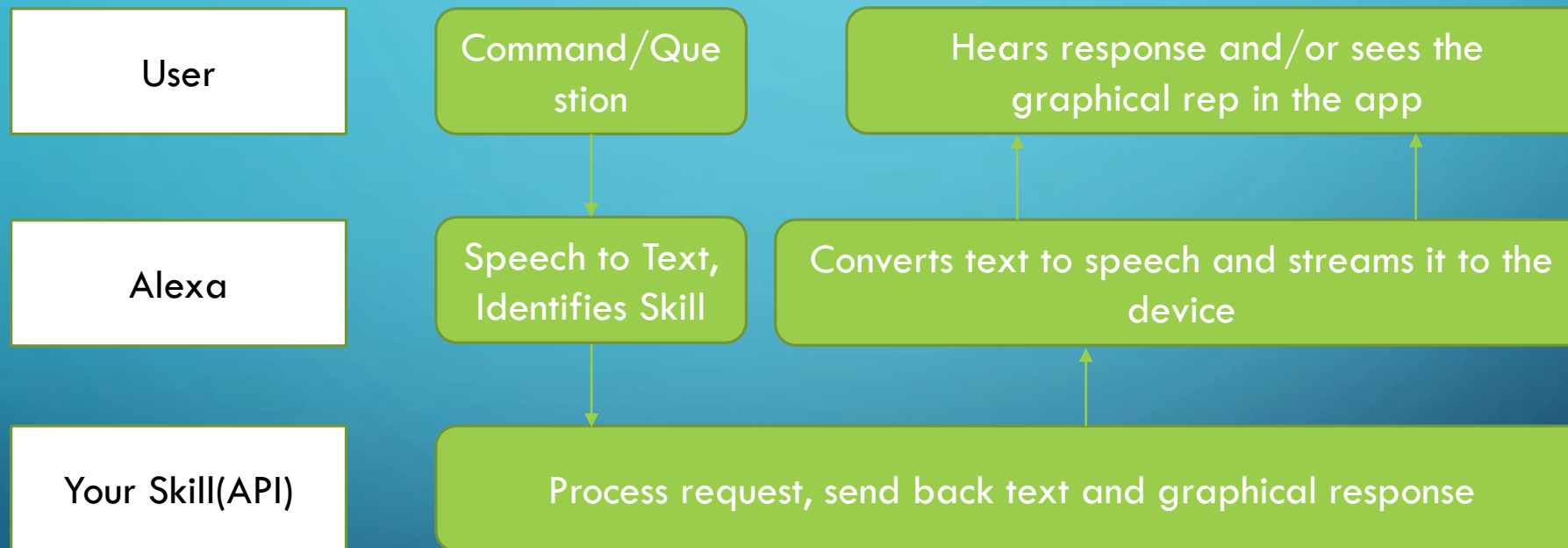
what is the talk at ten thirty am at the uk fest



There are 3 talks at 10:30. The tools of our trade - Lifehacker, Umbraco edition by Sebastiaan Janssen at the Atrium. Using Umbraco as a Digital Marketing Platform by Jeffrey Schoemaker at the Dry Dock. Umbraco for airlines by Juan José Martinez at the Dry Dock.



# USER INTERACTION FLOW





# HOW USERS INTERACT WITH ALEXA

UMBRACO UK FESTIVAL, NOVEMBER 2019

Wake word	Phrase	Invocation Name	Connecting word & utterance
Alexa	Ask	Friendly Events	How many days to CodeGarden?
Activates Alexa to start listening	Ask, Tell, Search, Open	Identifies your skill and routes the request to the correct endpoint	Specific words/phrases mapped to specific requests. The requests are then passed on to your endpoint which performs logic and returns a response

## HOW USERS INTERACT WITH ALEXA

# VOICE DESIGN

“the”

“Can you...”

“I want to”

“please” at the end

Putting it all together you can ask

“Alexa, Ask Friendly Events how many days to Codegarden”

“Alexa, Can you ask Friendly Events how many days to Codegarden”

“Alexa, I want to know how many days to Codegarden from Friendly Events”

# COMPONENTS OF A CUSTOM SKILL

UMBRACO UK FESTIVAL, NOVEMBER 2019





INVOCATION NAME

Identifies your skill



INTENTS

Core functionality of the skill

## Interaction Model



UTTERANCES

Specific words/phrases



ENDPOINT

Your logic

Alexa, Ask **FRIENDLY  
EVENTS** how many  
days to Codegarden

Alexa, Launch  
**FRIENDLY  
EVENTS**

Alexa, Get how many  
days to Codegarden  
from **FRIENDLY  
EVENTS**



# INTENTS

UMBRACO UK FESTIVAL, NOVEMBER 2019

# CUSTOM INTENT

*CodegardenIntent*

*FestivalIntent*

*FestivalTalksIntent*

UMBRACO UK FESTIVAL, NOVEMBER 2019



# BUILT-IN INTENTS

AMAZON.NavigateHomeIntent

AMAZON.FallbackIntent

AMAZON.HelpIntent

AMAZON.CancelIntent

AMAZON.StopIntent

# SLOTS

*FestivalIntent - festival*

*FestivalTalksIntent - time, festival*

UMBRACO UK FESTIVAL, NOVEMBER 2019

# SLOT TYPES

Built-In Slot Types - AMAZON.TIME (slot name : time)

Custom Slot Type - festival\_name (slot name : festival)

The background is a blue gradient with abstract white lines and circles in the corners, resembling a circuit or data flow. The lines are thin and white, connecting small circles at various points.

# UTTERANCES

UMBRACO UK FESTIVAL, NOVEMBER 2019





# YOUR API

UMBRACO UK FESTIVAL, NOVEMBER 2019

# REQUIREMENTS FOR YOUR API

## HTTPS POST

Must be able to receive a request containing a JSON body and generate a JSON response

Must verify that incoming requests come from Alexa

```
"new": false,
"sessionId": "amzn1.echo-api.session.[unique-value-here]",
▼ "application": {
  "applicationId": "amzn1.ask.skill.[unique-value-here]"
},
▼ "attributes": {
  "memberId": 0
},
▼ "user": {
  "userId": "amzn1.ask.account.[unique-value-here]"
}
},
▼ "context": {
  ▼ "System": {
    ▼ "application": {
      "applicationId": "amzn1.ask.skill.[unique-value-here]"
    },
    ▼ "user": {
      "userId": "amzn1.ask.account.[unique-value-here]"
    },
    ▼ "device": {
      "deviceId": "amzn1.ask.device.[unique-value-here]",
      "supportedInterfaces": {}
    },
    "apiEndpoint": "https://api.eu.amazonalexa.com",
    "apiAccessToken": "[unique-value-here]"
  }
},
▼ "request": {
  "type": "IntentRequest",
  "requestId": "amzn1.echo-api.request.[unique-value-here]",
  "timestamp": "2019-09-22T11:28:21Z",
  "locale": "en-GB",
  ▼ "intent": {
    "name": "CodegardenIntent",
    "confirmationStatus": "NONE"
  }
}
```

```
"request": {  
  "type": "IntentRequest",  
  "requestId": "amzn1.echo-api.request.d364a3df-54b2-49d1-a041-0ac6f825da55",  
  "timestamp": "2019-11-02T07:58:43Z",  
  "locale": "en-GB",  
  "intent": {  
    "name": "FestivalTalkIntent",  
    "confirmationStatus": "NONE",  
    "slots": {  
      "time": {  
        "name": "time",  
        "value": "11:15",  
        "confirmationStatus": "NONE",  
        "source": "USER"  
      },  
      "festival": {  
        "name": "festival",  
        "value": "UK fest",  
        "resolutions": { ... }, // 1 item  
        "confirmationStatus": "NONE",  
        "source": "USER"  
      },  
      "order": {  
        "name": "order",  
        "confirmationStatus": "NONE",  
        "source": "USER"  
      }  
    }  
  }  
},
```

LaunchRequest  
IntentRequest  
SessionEndedRequest

```
{
  "body": {
    "version": "1.0",
    "response": {
      "outputSpeech": {
        "type": "PlainText",
        "text": "There are 3 talks at 10:30. The tools of our trade - Lifehacker, Umbraco edition by Sebastiaan Janssen at the Atrium....."
      },
      "card": {
        "type": "Standard",
        "title": "Friendly Events!",
        "text": "There are 3 talks at 10:30. The tools of our trade - Lifehacker, Umbraco edition by Sebastiaan Janssen at the Atrium.....",
        "image": {
          "smallImageUrl": "https://iot-demo.kvtechsltd.co.uk/media/my1fyqkm/45809731742_753ca3ebaf_o.jpg",
          "largeImageUrl": "https://iot-demo.kvtechsltd.co.uk/media/my1fyqkm/45809731742_753ca3ebaf_o.jpg"
        }
      },
      "reprompt": {
        "outputSpeech": {
          "type": "PlainText"
        }
      },
      "shouldEndSession": false,
      "type": "_DEFAULT_RESPONSE"
    },
    "sessionAttributes": {
      "memberId": 0
    }
  }
}
```




# CODE DEMO

UMBRACO UK FESTIVAL, NOVEMBER 2019







# CONFIGURE YOUR SKILL IN THE DEVELOPER PORTAL

UMBRACO UK FESTIVAL, NOVEMBER 2019

Alexa Skills

 Search by skill name or skill ID

Create Skill

SKILL NAME	LANGUAGE	TYPE	MODIFIED	STATUS	ACTIONS
<div><div>Umbraco Festivals</div><div>View Skill ID</div></div>	English (UK)	Custom	2019-09-30	<div><div></div>In Development</div>	<a href="#">Analytics</a>   <a href="#">Edit</a>   <a href="#">Manage Beta Test</a>   <a href="#">Delete</a>
<div><div>Demo Flashbriefing</div><div>View Skill ID</div></div>	English (UK)	Flash Briefing	2019-09-26	<div><div></div>In Development</div>	<a href="#">Analytics</a>   <a href="#">Edit</a>   <a href="#">Manage Beta Test</a>   <a href="#">Delete</a>
<div><div>Poornima Nayar Blog</div><div>View Skill ID</div></div>	English (UK)	Flash Briefing	2019-09-03	<div><div></div>Live</div>	<a href="#">Analytics</a>   <a href="#">View</a>   <a href="#">Manage Beta Test</a>   <a href="#">Hide</a>   <a href="#">Remove</a>
<div><div>Poornima Nayar Blog</div></div>	English (UK)	Flash Briefing	2019-09-23	<div><div></div>In Development</div>	<a href="#">Analytics</a>   <a href="#">Edit</a>   <a href="#">Manage Beta Test</a>   <a href="#">Delete</a>
<div><div>Umbraco Scoop</div><div>View Skill ID</div></div>	English (UK)	Custom	2019-08-13	<div><div></div>Live</div>	<a href="#">Analytics</a>   <a href="#">View</a>   <a href="#">Hide</a>   <a href="#">Remove</a>
<div><div>Umbraco Scoop</div></div>	English (UK)	Custom	2019-09-22	<div><div></div>In Development</div>	<a href="#">Analytics</a>   <a href="#">Edit</a>   <a href="#">Delete</a>
<div><div>Umbraco</div><div>View Skill ID</div></div>	English (UK)	Flash Briefing	2019-07-29	<div><div></div>In Development</div>	<a href="#">Analytics</a>   <a href="#">Edit</a>   <a href="#">Delete</a>
<div><div>Poornima's Space Facts</div></div>	English (UK)	Custom	2019-06-30	<div><div></div>In Development</div>	<a href="#">Analytics</a>   <a href="#">Edit</a>   <a href="#">Delete</a>

# Create a new skill

### Skill name

Friendly Events

15/50 characters

### Default language

English (UK) ▾

More languages can be added to your skill after creation

## Choose a model to add to your skill

There are many ways to start building a skill. You can design your own custom model or start with a pre-built model. Pre-built models are interaction models that contain a package of intents and utterances that you can add to your skill.

Custom

Design a unique experience for your users. A custom model enables you to create all of your skill's interactions.

SELECTED

Flash Briefing

Give users control of their news feed. This pre-built model lets users control what updates they listen to.

"Alexa, what's in the news?"

Smart Home

Give users control of their smart home devices. This pre-built model lets users turn off the lights and other devices without getting up.

"Alexa, turn on the kitchen lights"

Video

Let users find and consume video content. This pre-built model supports content searches and content suggestions.

"Alexa, play Interstellar"

## Choose a method to host your skill's backend resources

You can provision your own backend resources or you can have Alexa host them for you. If you decide to have Alexa host your skill, you'll get access to our code editor, which will allow you to deploy code directly to AWS Lambda from the developer console.

Provision your own

Provision your own endpoint and backend resources for a skill. With this option, you will not gain access to the console's code editor.

SELECTED

Alexa-Hosted (Node.js)

Alexa will host skills in your account up to the AWS Free Tier limits and get you started with a Node.js template. You will gain access to an AWS Lambda endpoint, 5 GB of media storage with 15 GB of monthly data transfer, and a table for session persistence. [Learn more](#)


Alexa-Hosted (Python)

Alexa will host skills in your account up to the AWS Free Tier limits and get you started with a Python template. You will gain access to an AWS Lambda endpoint, 5 GB of media storage with 15 GB of monthly data transfer, and a table for session persistence. [Learn more](#)

# Choose a template


Choose

Select a quick start template to get started with a predefined skill or simply "Start from scratch"




### Start from scratch

Design a unique experience for your users and define your custom model from scratch.




### Fact Skill

Provided a list of interesting facts about a topic, Alexa will select a fact at random and tell it to the user when the skill is invoked. Includes 1 custom intent, and 4 built-in intents.




### Quiz Game Skill

Provided a list of interesting facts about a topic, Alexa will quiz a user with facts from the list. Includes 1 custom intent with 1 slot, and 6 built-in intents.



### High-Low Game Skill

Try to guess the target number. Alexa tells the player if the target number is higher or lower than their current guess. Includes 2 custom intents with 5 slots, and 5 built-in intents.



Alexa, how do  
you test  
yourself?

Hmm...  
I don't know  
that one



# CERTIFICATION PROCESS

Distribution Information

Functional Requirements

Submit your skill for review

UMBRACO UK FESTIVAL, NOVEMBER 2019

● 4 Fixes Required

Executed on 9/30/19, 2:47 PM

English (UK)

- 
- The skill end-point is not validating the signatures for incoming requests and is accepting requests with an empty signature URL. ^

The skill end-point is not validating the signatures for incoming requests and is accepting requests with an empty signature URL. Please make sure that your signature validation is correct. To reject an invalid request with an invalid signature or certificate, the skill should respond with HTTP status code 400 (Bad Request) in the response.

**Documentation Help:**

Verifying the signature certificate URL: [Click here](#)

- 
- The skill end-point is not validating the signatures for incoming requests and is accepting requests with an incorrect certificate URL. ^

The skill end-point is not validating the signatures for incoming requests and is accepting requests with an incorrect certificate URL. Please make sure that your signature validation is correct. To reject an invalid request with an invalid signature or certificate, the skill should respond with HTTP status code 400 (Bad Request) in the response.

**Documentation Help:**

Verifying the signature certificate URL: [Click here](#)

- 
- The skill end-point is not validating the signatures for incoming requests and is accepting requests with an invalid signature URL specified. ^

The skill end-point is not validating the signatures for incoming requests and is accepting requests with an invalid signature URL specified. Please make sure that your signature validation is correct. To reject an invalid request with an invalid signature or certificate, the skill should respond with HTTP status code 400 (Bad Request) in the response.

**Documentation Help:**

Verifying the signature certificate URL: [Click here](#)

- 
- The skill end-point is not validating the signatures for incoming requests and is accepting requests when no signature URL headers are specified. ^

The skill end-point is not validating the signatures for incoming requests and is accepting requests when no signature URL headers are specified. Please make sure that your signature validation is correct. To reject an invalid request with an invalid signature or certificate, the skill should respond with HTTP status code 400 (Bad Request) in the response.

**Documentation Help:**

Verifying the signature certificate URL: [Click here](#)

---

# CODE DEMO

UMBRACO UK FESTIVAL, NOVEMBER 2019













The background is a blue gradient with decorative white circuit-like lines in the corners. The lines consist of straight segments and small circles, resembling a stylized electronic circuit.

<http://bit.ly/2NyzufT>

UMBRACO UK FESTIVAL, NOVEMBER 2019



# #H5YR

UMBRACO UK FESTIVAL, NOVEMBER 2019