TAPAD

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Alexey
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TAPAD

We’re Hiring!

WE’VE GOT A SWEET STACK

TAPAD

Senior Software Engineer

LEAD/ARCHITECT/DESIGN/DEVELOP

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Software Engineer

LEAD/GROW/DESIGN/DEVELOP

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Site Reliability Engineer

ARCHITECT/DESIGN/CI/CD/MAINTAIN

Inventors of the Device Graph

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Need More Reasons to Join?

Nice and competent colleagues (you have a selection here!)

Startup environment + Telenor benefits

Training in New York City

Centrally located

All the coffee that you can drink, all the ping pong that you can play

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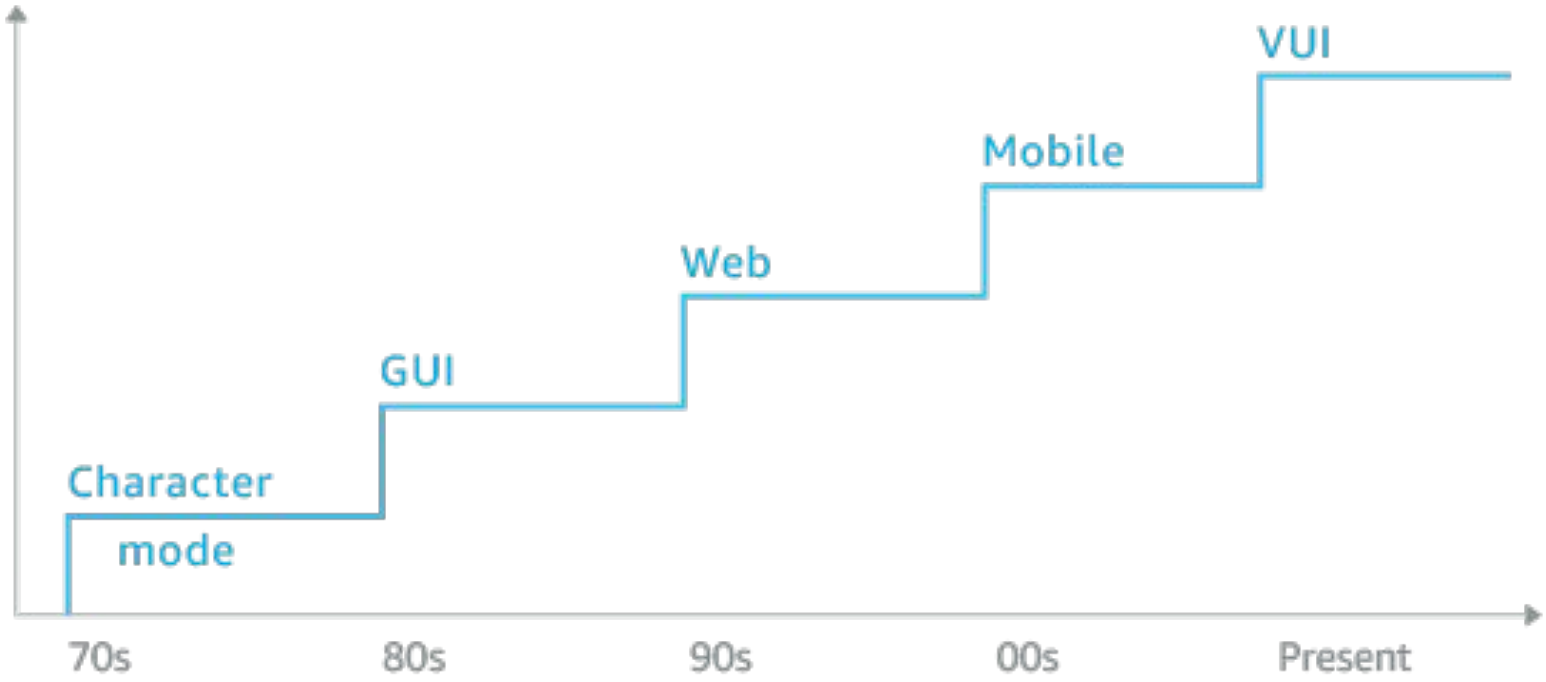


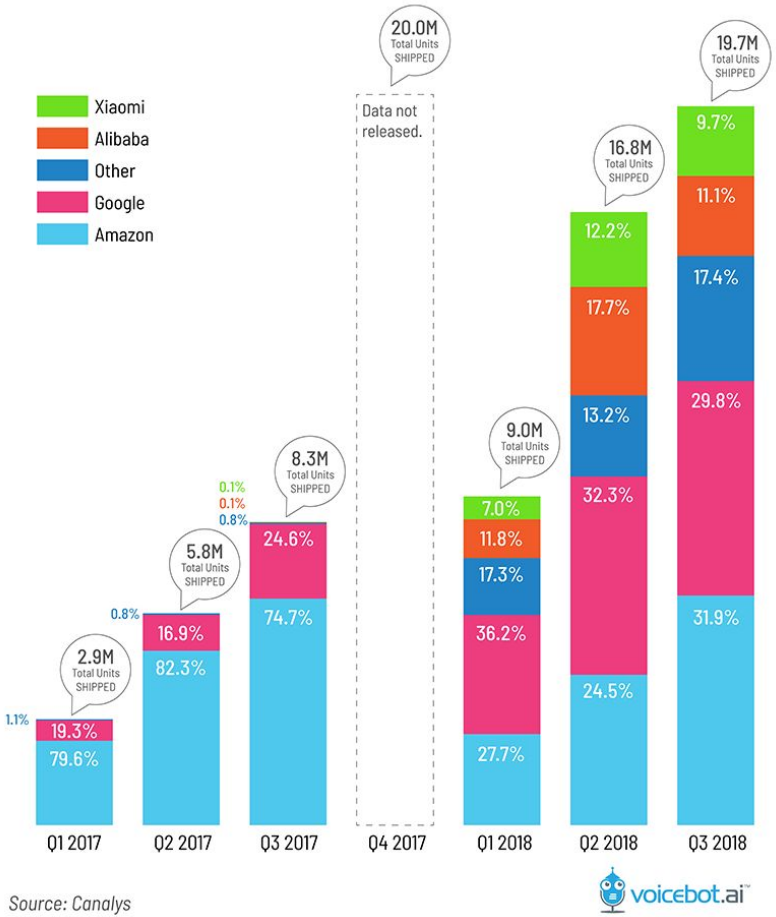
Source: Amazon's Developer Portal

Does any of you have a voice assistant?

PERCENTAGE OF CONSUMERS WHO OWN A SMART SPEAKER (US, AUG 2018)
SOURCE: SURVEY

Source: TechCrunch

Global Smart Speaker Sales Share - 2017 - Q3 2018



Source: Canalys

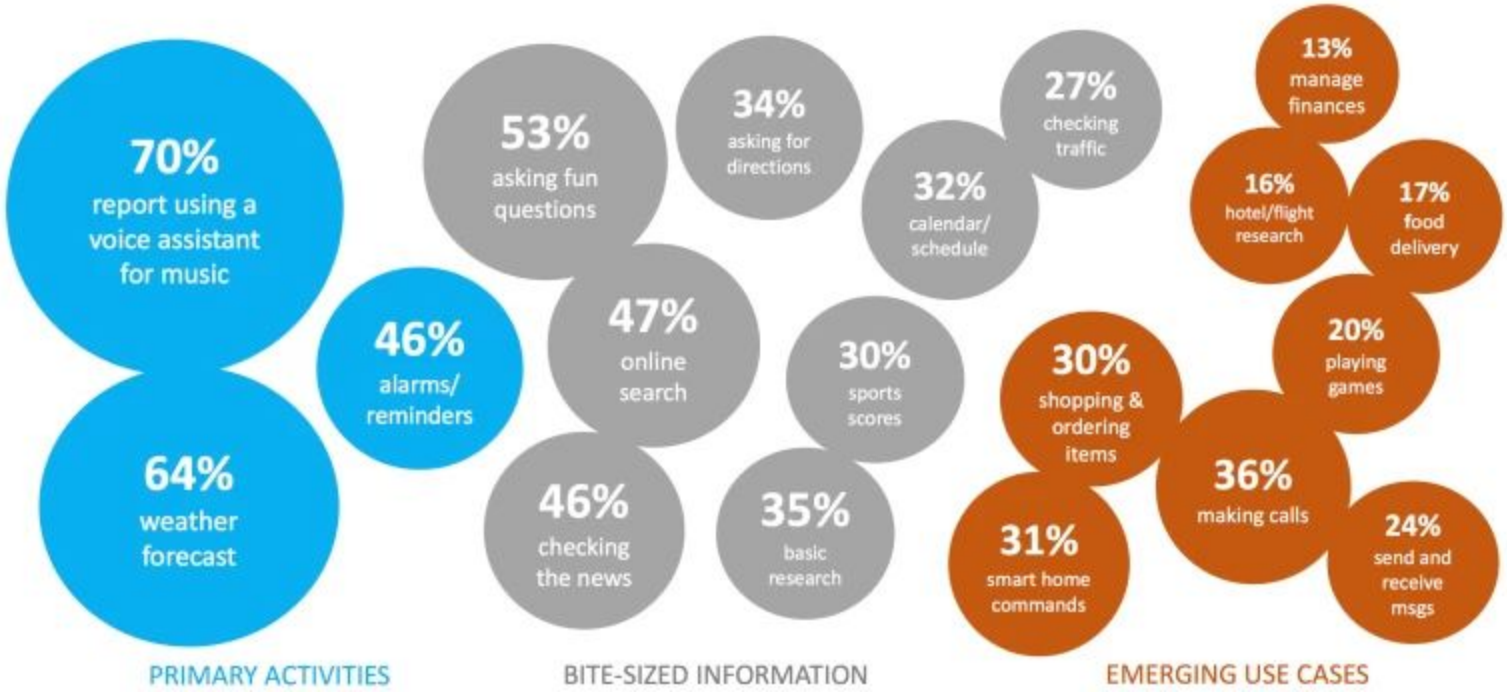
voicebot.ai

Source: voicebot.ai

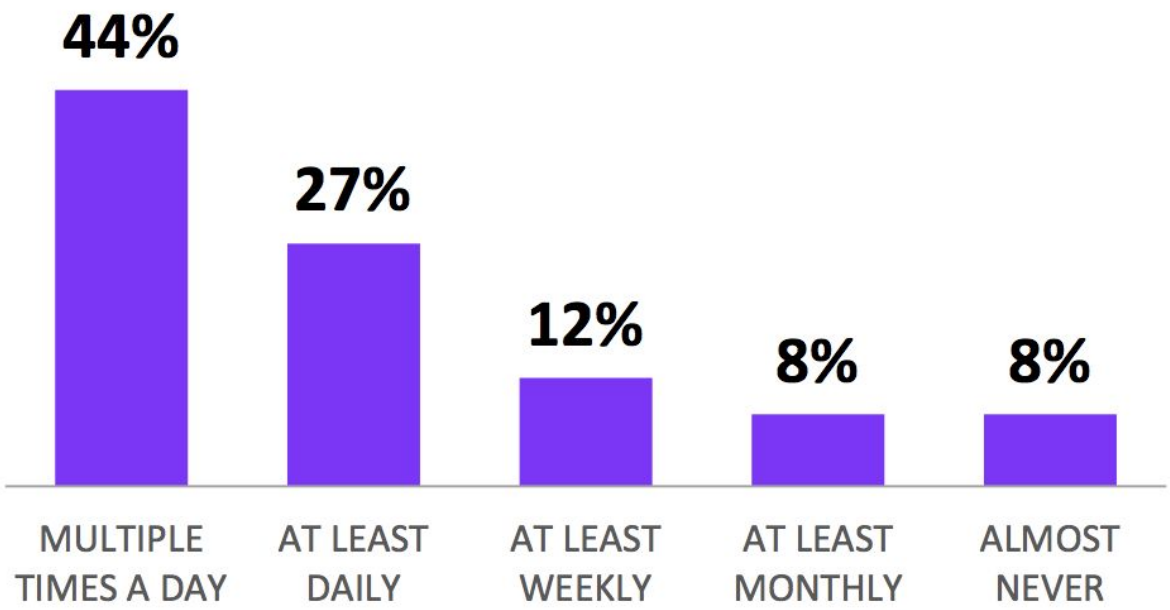
VOICE ASSISTANTS | SEP 2018

Segmented: responses from those who own a smart speaker

Voice activities expanding beyond music & weather



Source: TechCrunch



FREQUENCY OF VOICE ASSISTANT USE (US, AUG 2018)
SOURCE: SURVEY

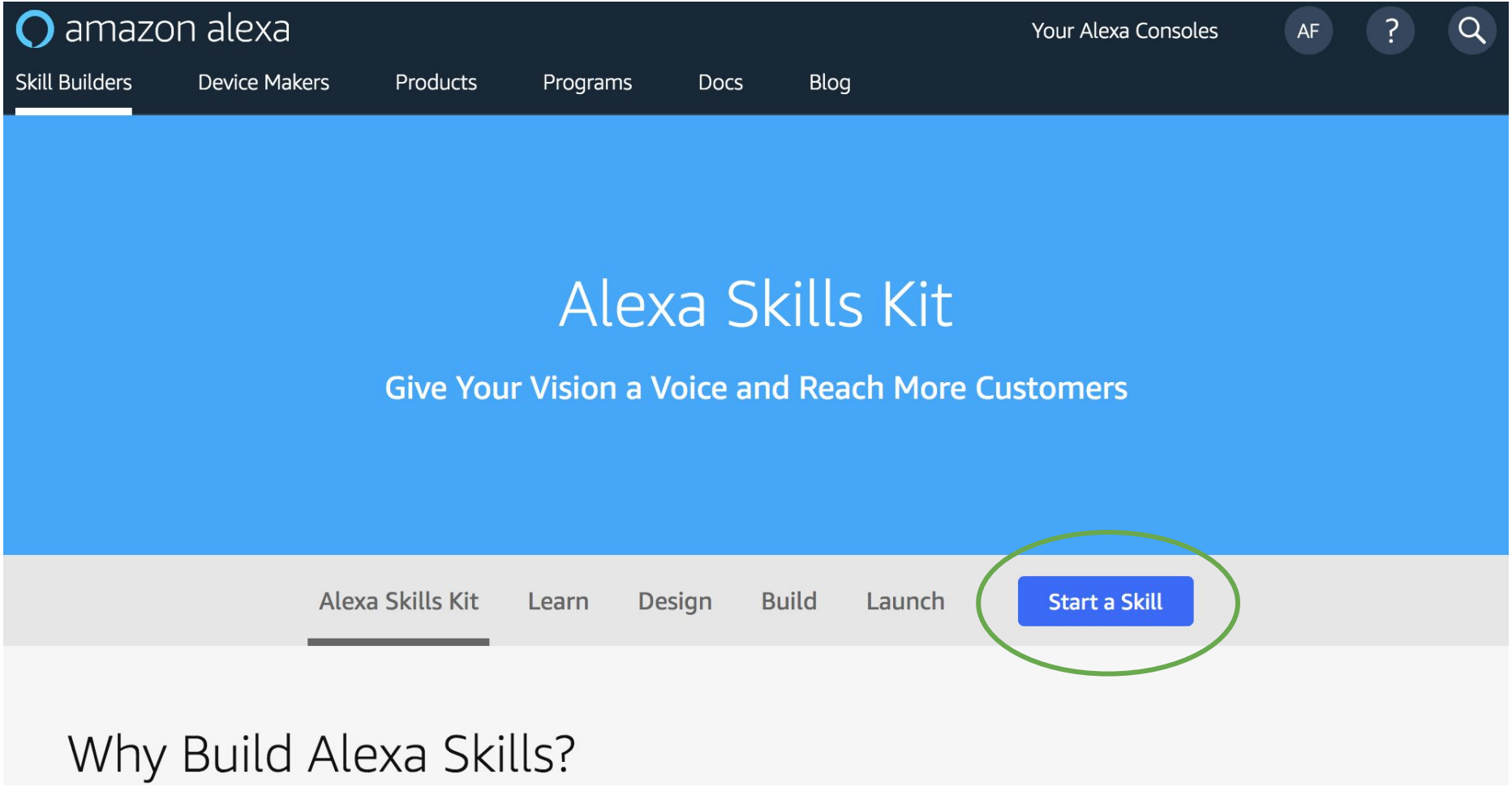
Source: TechCrunch

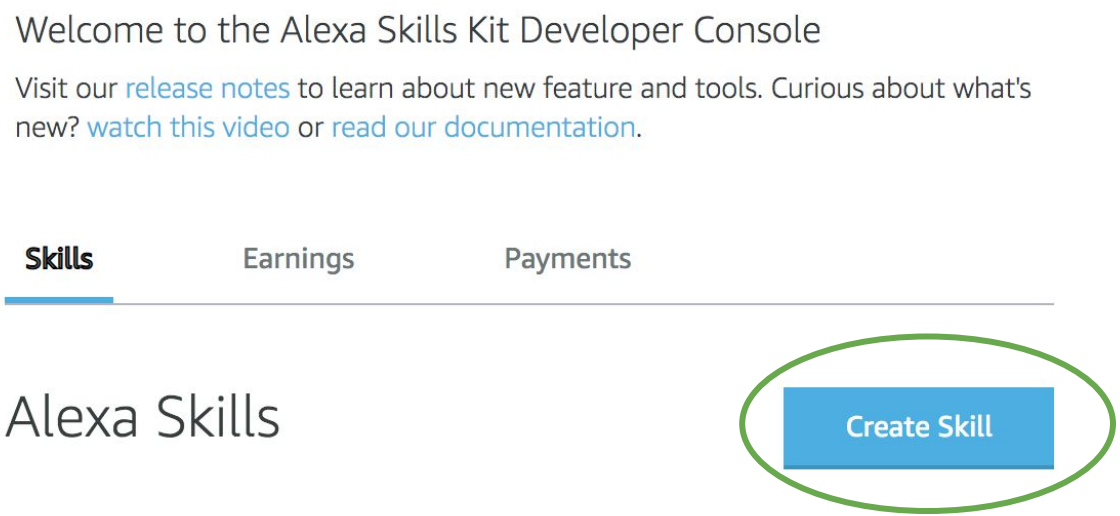
1) Find my phone
2) Unlock the screen
3) Find and open my shopping list app
4) Click on add a new item
5) Write “tomatoes”
6) Click save

1) “Alexa add tomatoes to my shopping list.”

Are you ready?

https://developer.amazon.com/alexa


amazon alexa
Your Alexa Consoles
AF
Skill Builders
Device Makers
Products
Programs
Docs
Blog
Alexa Skills Kit
Give Your Vision a Voice and Reach More Customers
Alexa Skills Kit
Learn
Design
Build
Launch
Start a Skill
Why Build Alexa Skills?


Welcome to the Alexa Skills Kit Developer Console
Visit our release notes to learn about new feature and tools. Curious about what's new? watch this video or read our documentation.
Skills
Earnings
Payments
Alexa Skills
Create Skill

Enter skill name

Skill name must have at least 2 characters.

0/50 characters

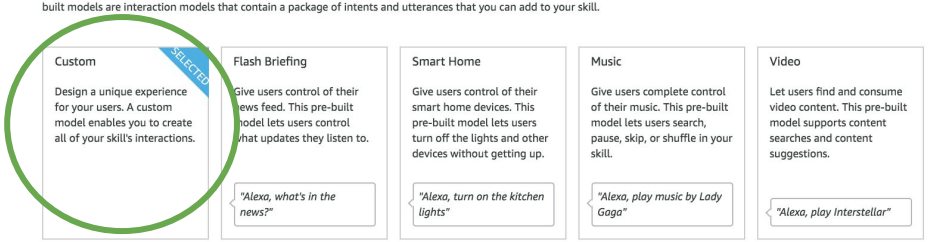
Default language

English (US)

More languages can be added to your skill after creation

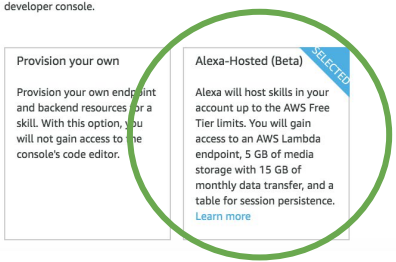
Choose a model to add to your skill

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.



Choose a method to host your skill's backend resources

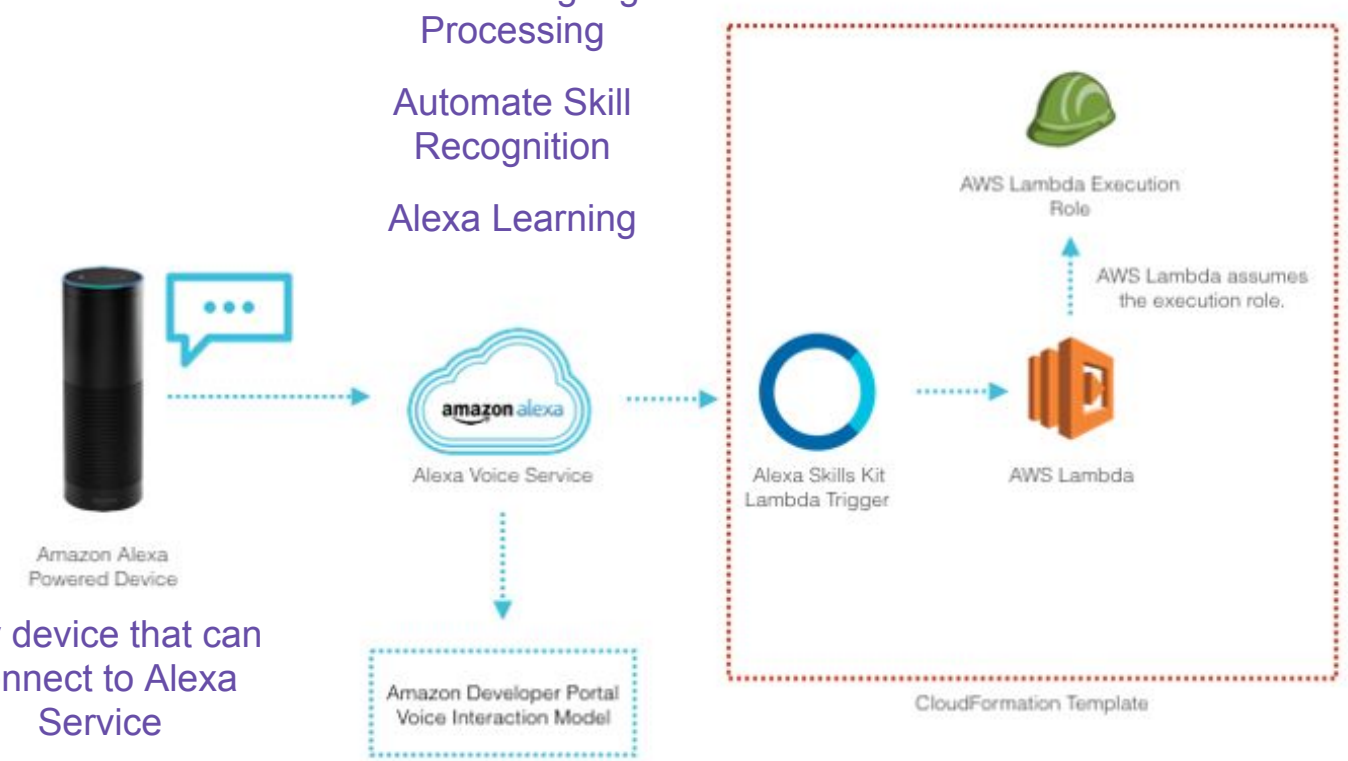
You can provision your own backend resources or you can have Alexa host them for you. If you decide to have Alexa host your skill, you'll get access to our code editor, which will allow you to deploy code directly to AWS Lambda from the developer console.



Natural Language Processing

Automate Skill Recognition

Alexa Learning



Any device that can connect to Alexa Service

What you say back to the user

Source: [Amazon's Developer Portal]

Serveless means:

No servers to provision or manage

Pay for value

Great agility

Less overhead

Better focus

Increase scale

More Flexibility

Faster time to market.

Lambda Handles:

Load Balancing

Auto Scaling

Handling Failures

Security Isolation

OS Management

Managing Utilization

Invocation

Intents (5) Add

HelloWorldIntent

Built-In Intents (4)

AMAZON.CancelIntent

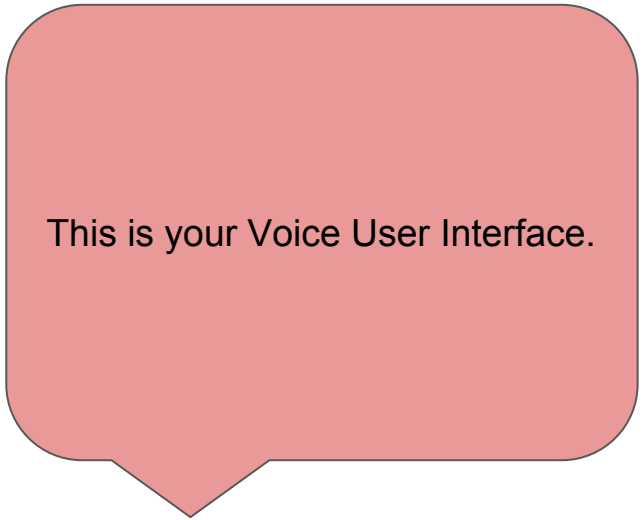
AMAZON.HelpIntent

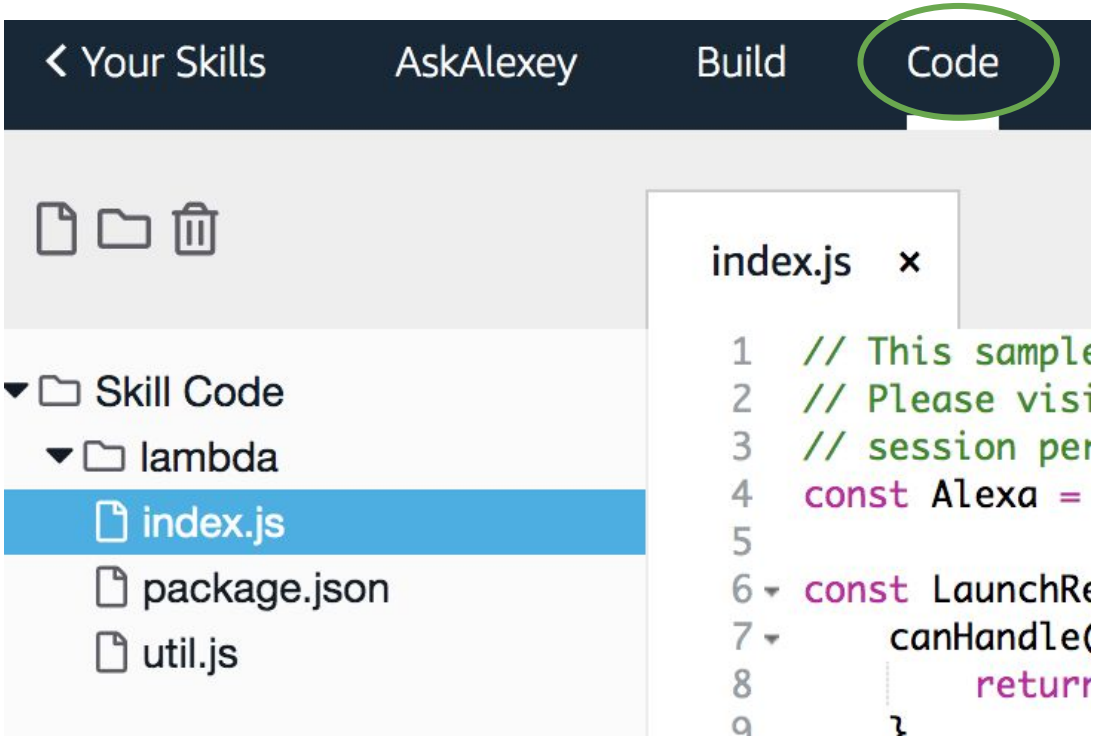
AMAZON.StopIntent

AMAZON.NavigateHomeIntent

Slot Types (0) Add

JSON Editor





This is your backend

Don’t forget to SAVE and BUILD both “frontend” and “backend”!

Save Model | Build Model

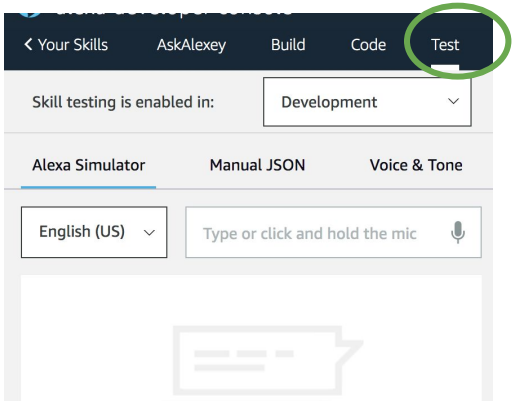
Invocation

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

women in tech



Add Intent

An intent represents an action that fulfills a user's spoken request. Learn more about intents.

Create custom intent

WomenInTechEvents

Create custom intent

Use an existing intent from Alexa's built-in library

Learn more about using built-in intents.

Search built-ins

Intents / WomenInTechEvents

Sample Utterances (4)

Bulk Edit Export

What might a user say to invoke this intent? +

When is the next {EventType} of Women in Technology
When is the next {EventType} of Women in Tech
When is the next Women in Tech {EventType}
When is the next Women in Technology {EventType}

1 – 4 of 4

Intents / WomenInTechEvents / EventType

Slot Type

EventType

Auto delegation is disabled for this intent (set in intent setting).

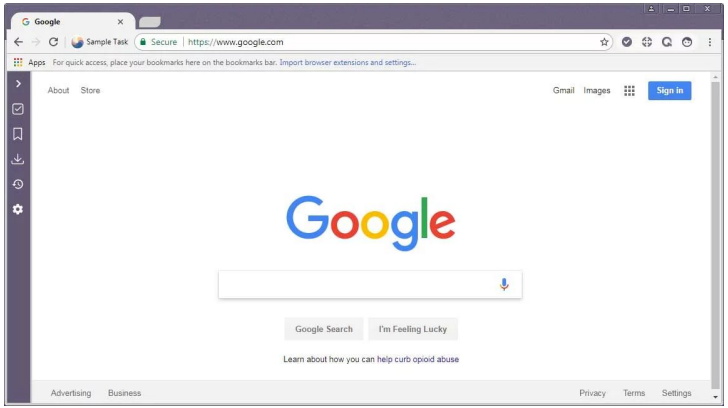
Slot Values (4)

Bulk Edit | Export | Search

Enter a new value for this slot type +

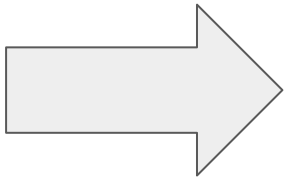
VALUE	ID (OPTIONAL)	SYNONYMS (OPTIONAL)	
afterwork	Enter ID	Add synonym	+
event	Enter ID	Add synonym	+
workshop	Enter ID	Add synonym	+
meet up	Enter ID	Add synonym	+

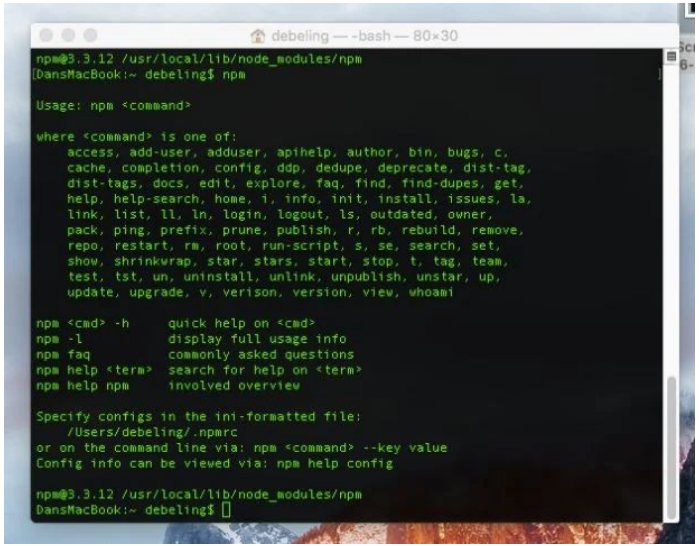
1 – 4 of 4



JavaScript

Frontend :)





NodeJS
(runtime env)

Web application! Backend! :)

Import/Install other modules

npm package.json

```
const WomenInTechEventHandler = {
    canHandle(handlerInput) {
        return handlerInput.requestEnvelope.request.type === 'IntentRequest'
            && handlerInput.requestEnvelope.request.intent.name === 'WomenInTechEvents';
    },
    handle(handlerInput) {
        const event = handlerInput.requestEnvelope.request.intent.slots.EventType.value
        const speechText = 'Next Women in Technology ' + event + ' is today!';
        return handlerInput.responseBuilder
            .speak(speechText)
            //.reprompt('add a reprompt if you want to keep the session open for the user to respond')
            .getResponse();
    }
};
```

```
// This handler acts as the entry point for your skill, routing all request and response
// payloads to the handlers above. Make sure any new handlers or interceptors you've
// defined are included below. The order matters - they're processed top to bottom.
exports.handler = Alexa.SkillBuilders.custom()
    .addRequestHandlers(
        LaunchRequestHandler,
        HelloWorldIntentHandler,
        WomenInTechEventHandler,
        HelpIntentHandler,
        CancelAndStopIntentHandler,
        SessionEndedRequestHandler,
        IntentReflectorHandler) // make sure IntentReflectorHandler is last so it doesn't override your custom intent handlers
    .addErrorHandlers(
        ErrorHandler)
    .lambda();
```

Search

Holds a single value:

- .then(OnResolve,[OnReject])
- .catch(OnReject)

In state of:

- Pending
- Resolved
- Rejected

```
MyPromise().then((value)=> {

    //do something with value

}, (err) => {

   //error handling

});
```

```
MyPromise().then((value)=> {

    //do something with value

}).catch((err) => {

   //error handling

});
```

```
async MyPromise(): {
    //call
    return value
}
```

```
var value = await MyPromise()
```

Intents / SearchIntent

Sample Utterances (3)

Bulk Edit Export

What might a user say to invoke this intent? +

tell me about {Topic}

look for {Topic}

search {Topic}

1 – 3 of 3

https://github.com/lucav76/AlexaSkillWIT/tree/master/src/lambda

```
// Loads the description of a topic from Wikipedia
// Logs available in CloudWatch  (click on "Logs: Amazon CloudWatch" in the bottom-left corner of the "Code" section)
async function loadWiki(topic) {
    console.log("loadWiki('" + topic + "')")

    try {
        var content = await httpGet("https://en.wikipedia.org/wiki/" + topic);

        if (content.startsWith("https")) {
          console.log("Follow redirect to: " + content)
          content = await httpGet(content.toString());
        }

        content = dropSomeHtml(content)
        console.log("Content: " + content)
        content = content.toString().match(/<p>([\w\W]*?)<\/p>/g) // Selects the paragraphs
        console.log("Paragraphs: " + content)
        content = content[0] // Selects the first paragraph
        console.log("Selected Content: " + content)
        content=cleanContent(content);
        console.log("Cleaned content: " + content)

        return content;
    }
    catch(e) {
        return "Err: " + e
    }
}
```

Save, build and test

Remove your deployed functions to Lambda. That might cost you in the future ($1/month?)

What is not COVERED?

Distribution 

Certification 

Analytics 

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