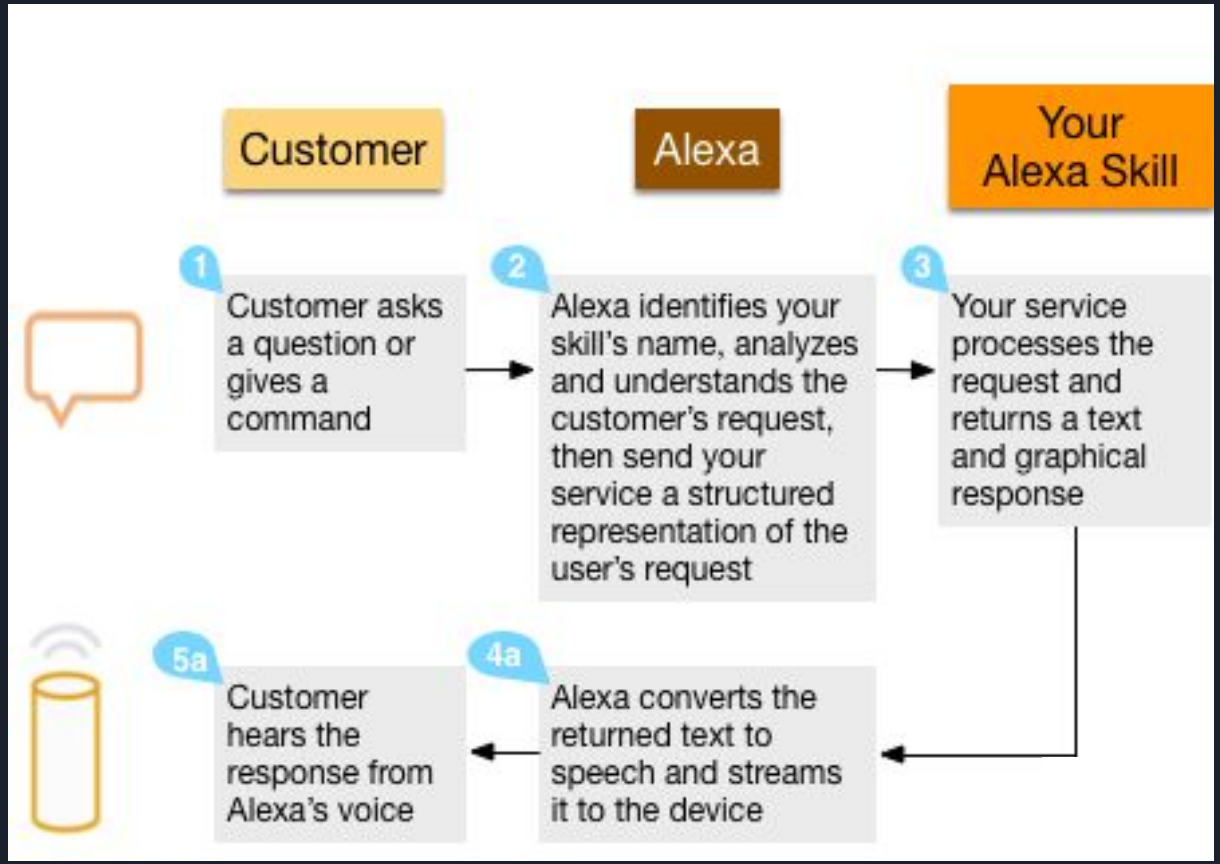
Alexa Skill Development

BSC Tech Friday Presentation
March, 23 2018

What is Alexa?

- Digital assistant from Amazon
- Lives on many different devices

How do digital assistants work?



What is JSON?

(JavaScript Object Notation)

```
{
    "title": "Example Schema",
    "type": "object",
    "properties": {
        "firstName": {
            "type": "string"
        },
        "lastName": {
            "type": "string"
        },
        "age": {
            "description": "Age in years",
            "type": "integer",
            "minimum": 0
        }
    },
    "required": ["firstName", "lastName"]
}
```

What Handles JSON?

- ActionScript
- Ada
- AdvPL
- ASP
- AWK
- Bash
- C
- C++
- *C#*
- Clojure
- Cobol
- D
- Dart
- Delphi
- E
- Fortran
- *Go*
- Groovy
- Haskell
- *Java*
- *JavaScript*
- Lisp
- Lua
- M
- Matlab
- Net.Data
- Nim
- Objective C
- OCaml
- PascalScript
- Perl
- Photoshop
- PHP
- PicoLisp
- PL/SQL
- PowerShell
- ***Python***
- R
- Racket
- Rebol
- RPG
- Rust
- Ruby
- Schele
- Squeak
- Tcl
- Visual Basic
- MANY MANY MORE!!

Build one-Liner Backend

Build interaction model

Testing

Build Knock-Knock Backend

Build interaction model

Testing

What are Slots?

Build Calculator Backend

Build interaction model

Testing

Resources

- Flask-Ask Documentation https://github.com/johnwheeler/flask-ask
- Deploying Flask-Ask https://developer.amazon.com/blogs/post/8e8ad73a-99e9-4c0f-a7b3-60f92287b0bf/New-Alexa-Tutorial-Deploy-Flask-Ask-Skills-to-AWS-Lambda-with-Zappa
- Code and Resources for this tech friday https://github.com/peter-banfield/bscTechFridaySkill
- Testing with echoism https://echosim.io/welcome
- Other skill builder tutorial in javascript https://www.codecademy.com/