5535
0010
983

Mercedes-Benz

Hello, Alexa

Me, myself and I

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@cowbotic

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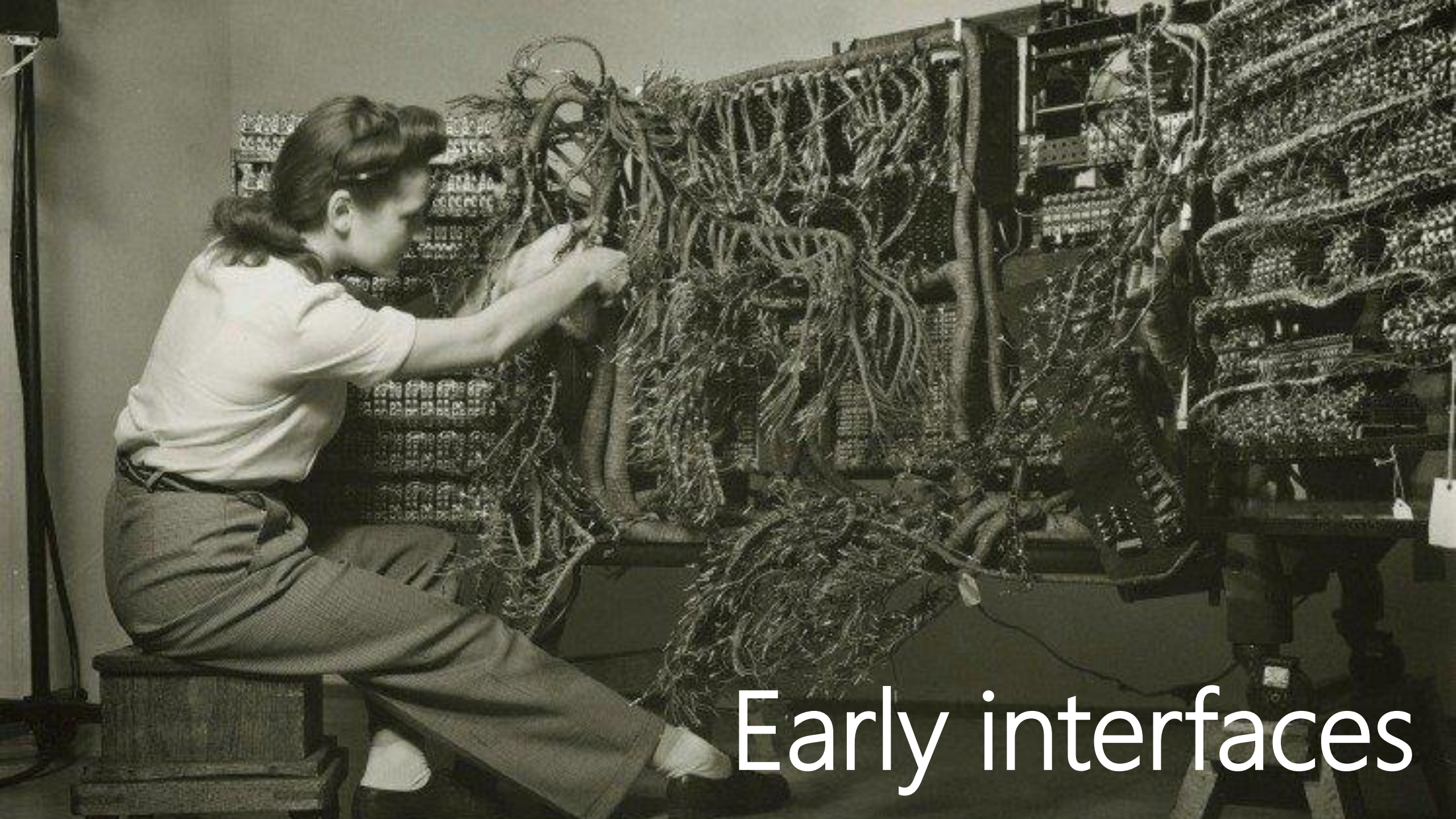

Early interfaces

First Sophistication

Second Sophistication

This was the future in 2002

This was in 2008
- Wake up, daddy's home.
- Welcome home, sir.

Alexa, Amazon AI for voice interaction

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Alexa connected devices, the Echo family

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Interacting with Alexa

Apps

- Amazon Alexa
- Reverb ai

Sites

- developer.amazon.com
- echosim.io

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Alexa Skills

Built In

"Alexa, sing a song"

"Alexa, I need to go to the doctor next Tuesday at 11:00"

"Alexa, how many kilometers is 27.65 miles?"

Third party

- **Custom Skills**
- Smart Home Skills
- Flash Briefing
- Video Skills
- List Skills

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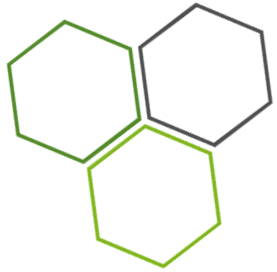
Extending Echo and more with Alexa Skills



Alexa Skills Kit (ASK)

Teach Alexa new skills

Alexa Voice Service (AVS)

APIs and SDKs to embed Alexa inside your products

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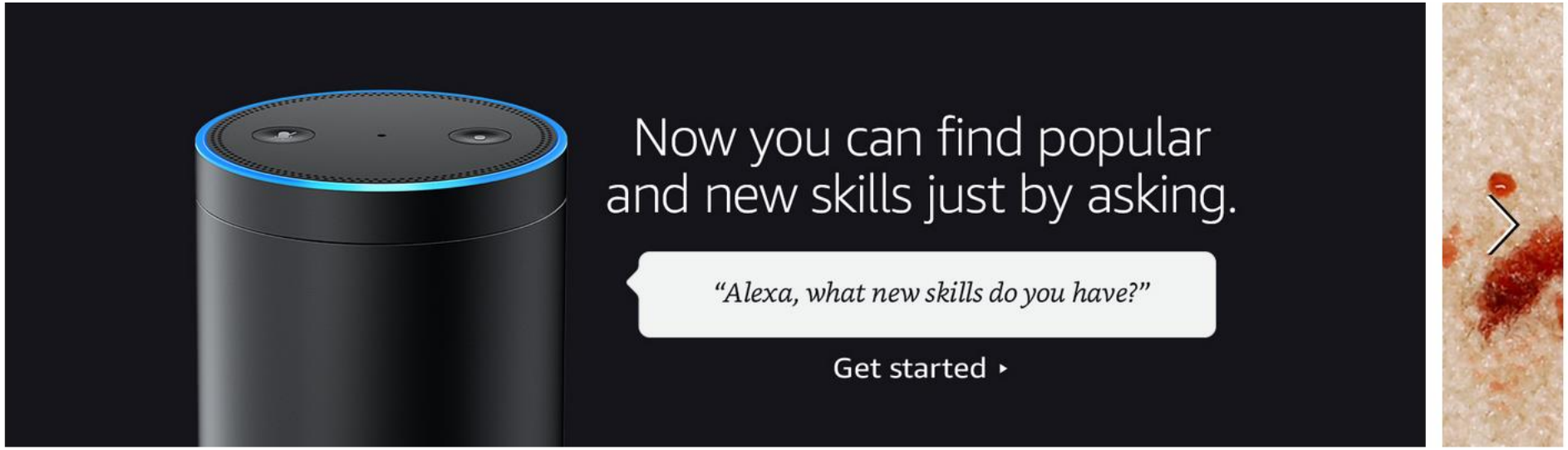
Alexa Skills Store



Things to try

"Alexa, ask The Fixture List who's playing at weekend"	"Alexa open Beach Sounds"	"Alexa, open eharmony"	"Alexa, open Mr & Mrs Smith"
Premier League Fixtures	Zen Sounds: Beach Sounds	eharmony	Mr & Mrs Smith
★★★★★ 6	★★★★★ 14	★★★★★ 4	★★★★★ 1

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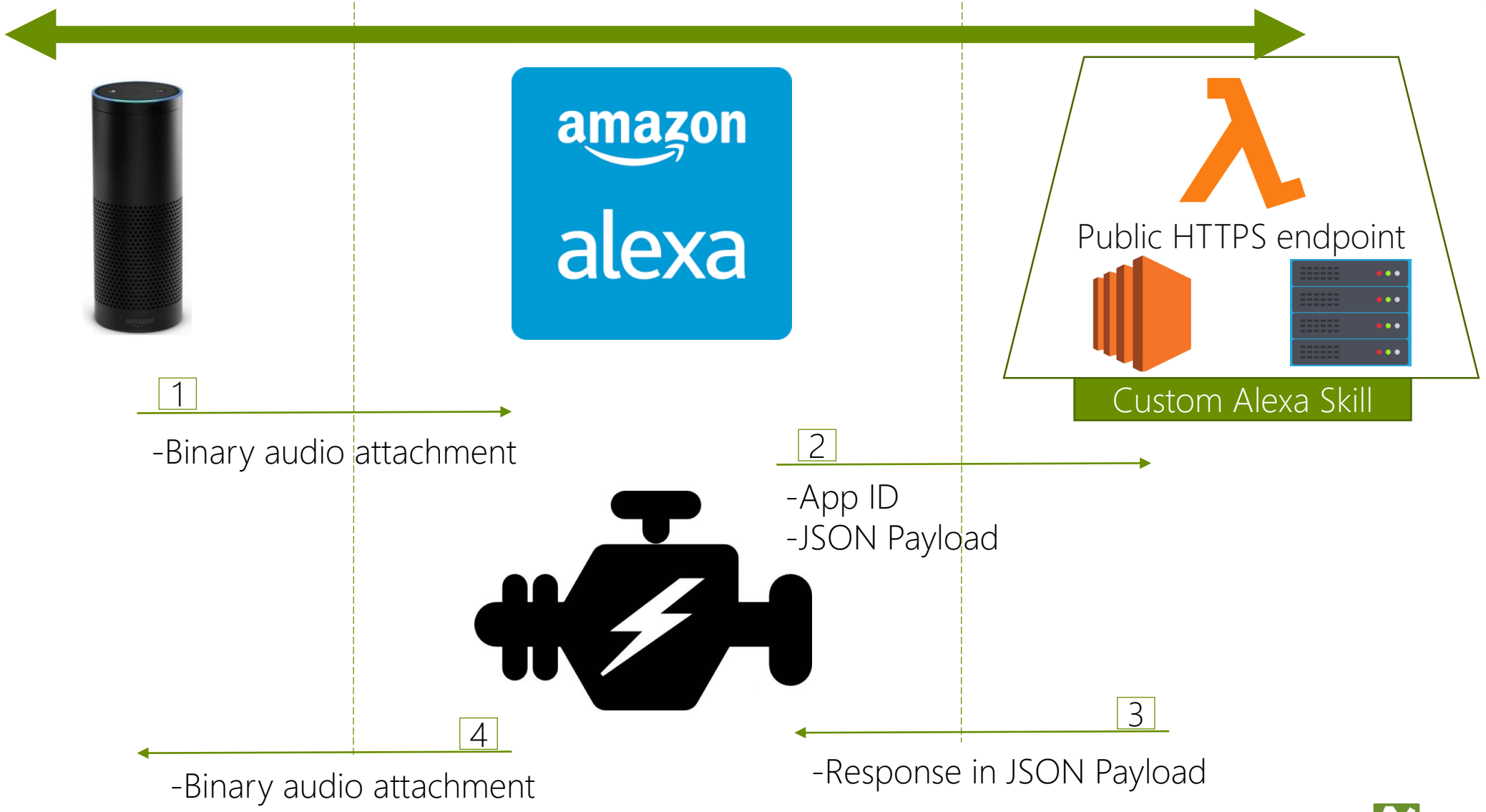
Skills Workflow



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Alexa Interaction model

Intents

What the user can do with the skill

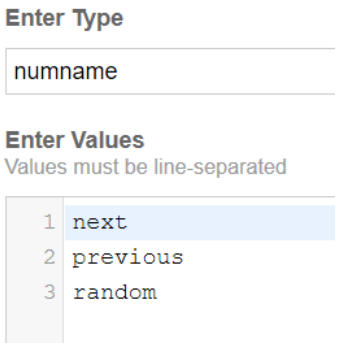
Intent Schema

```
{
  "intents": [
    {
      "slots": [
        {
          "name": "Numbertype",
          "type": "numname"
        }
      ],
      "intent": "GiveMeSomething"
    }
  ]
}
```

Slots

Variables passed to the Intent

Text File



Sample Utterances

How the Intent can be verbalized by the user

Text File

```
GiveMeSomething {Numbertype} number
GiveMeSomething {Numbertype} figure
GiveMeSomething {Numbertype} score
GiveMeSomething number {Numbertype}
```

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Alexa Request types

`LaunchRequest`

Received when skill is invoqued

`IntentRequest`

Received when a utterance is recognized on the speech

`SessionEnded`

User says something that does not match an Intent or session times out

```
if tipo_req == "LaunchRequest":
    return launch(event['request'], event['session'])
elif tipo_req == "IntentRequest":
    return intent(event['request'], event['session'])
elif tipo_req == "SessionEndedRequest":
    return session_end(event['request'], event['session'])
```

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Lets get our hands dirty!!!

github.com/capside/alexa_python

developer.amazon.com
console.aws.amazon.com

alexa.amazon.com

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Thanks!!