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Trilha – Chatbots

Desenvolvendo skills do Alexa para IoT

Daniel Olsson e Giovanni Comunello Jr.

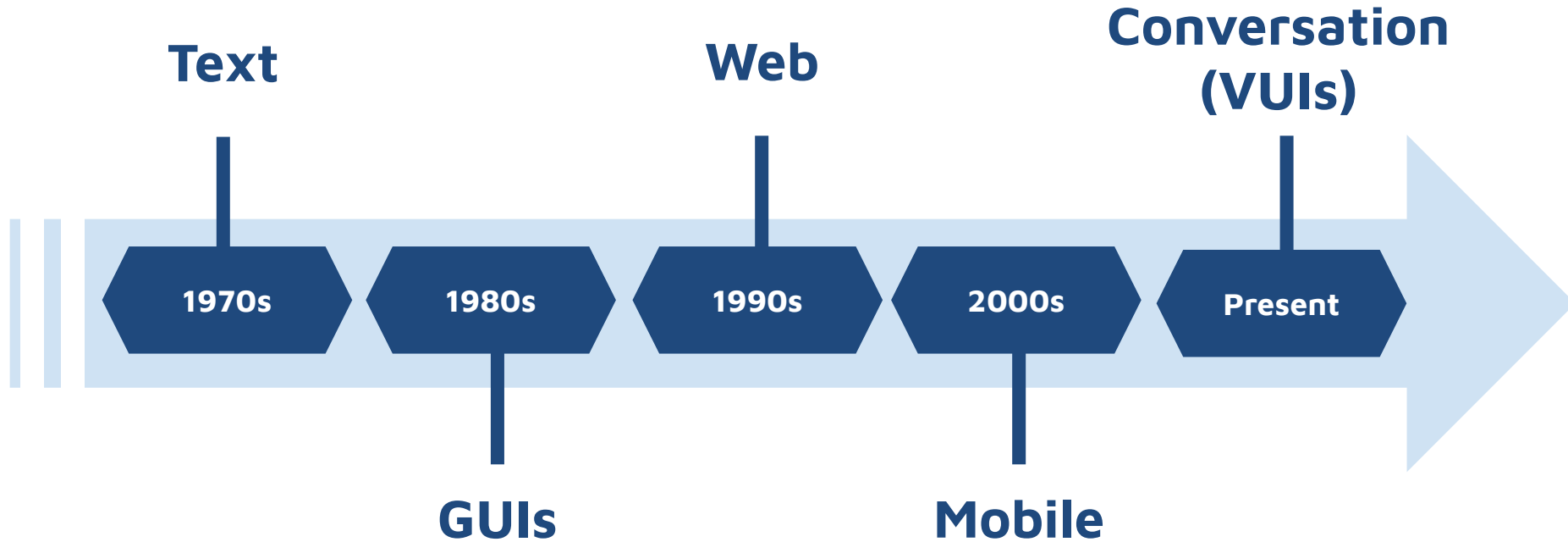
Agenda



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- Voice User Interfaces
 - Interfaces Evolution
 - What are VUIs?
- Amazon Alexa
 - Type of Alexa Skills
 - Skill Invocation Phrase
- Alexa Skill Development Overview
 - Voice Interaction Model
 - Configure Alexa Skill
 - Code in Amazon Lambda
 - Test Alexa Skill

Interfaces Evolution



Interfaces Evolution



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“ Conversational platforms will drive the next big paradigm shift in how humans interact with digital world. ”

Gartner Top 10 Strategic Technology Trends for 2018

What are VUIs?



Voice Activated Conversational Interface:

- ▶ **Natural Language Understanding/Processing (NLU/NLP)**
- ▶ **Automatic Speech Recognition (ASR)**
- ▶ **Text To Speech Conversion (TTS)**

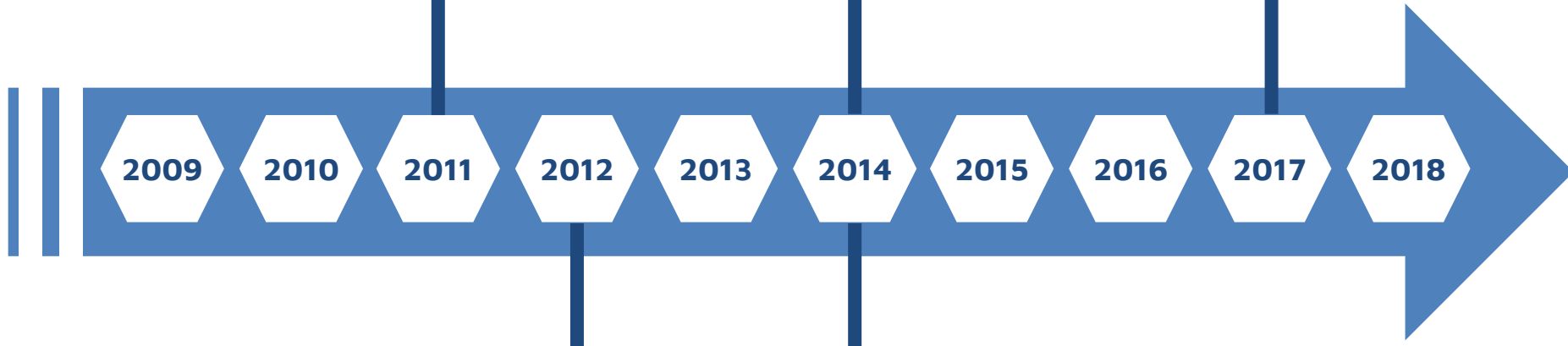
Companies building VUIs



**Apple
Siri**

**Microsoft
Cortana**

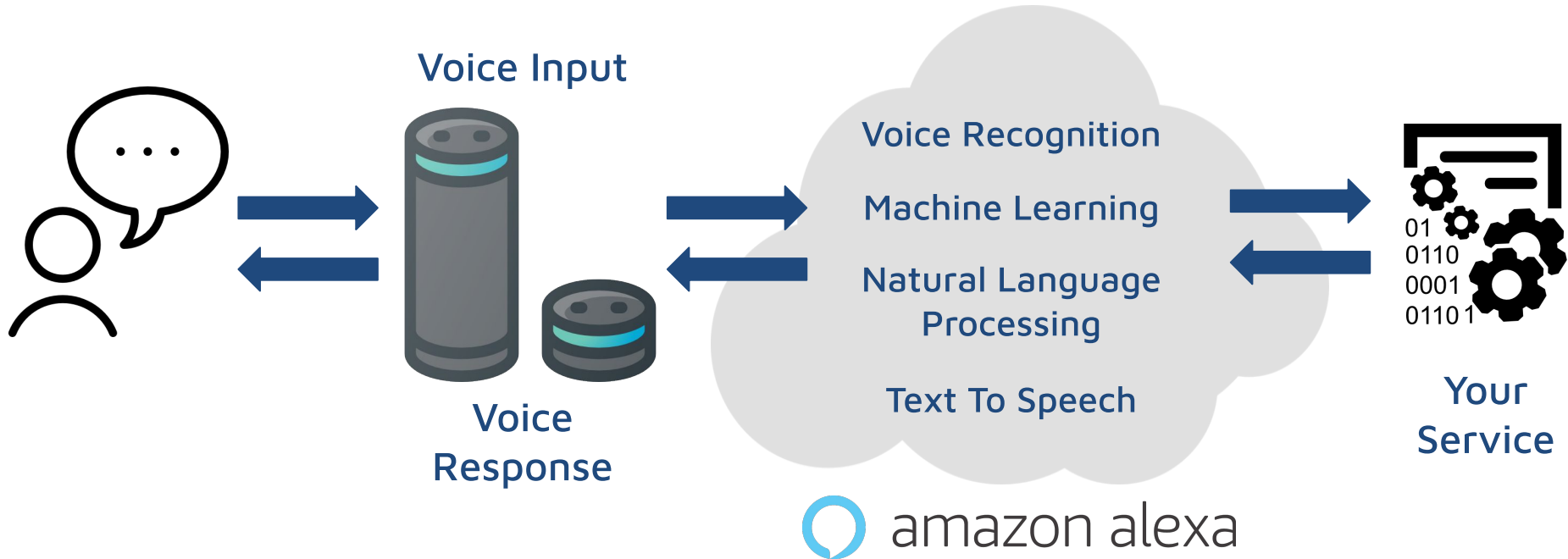
**Samsung
Bixby**



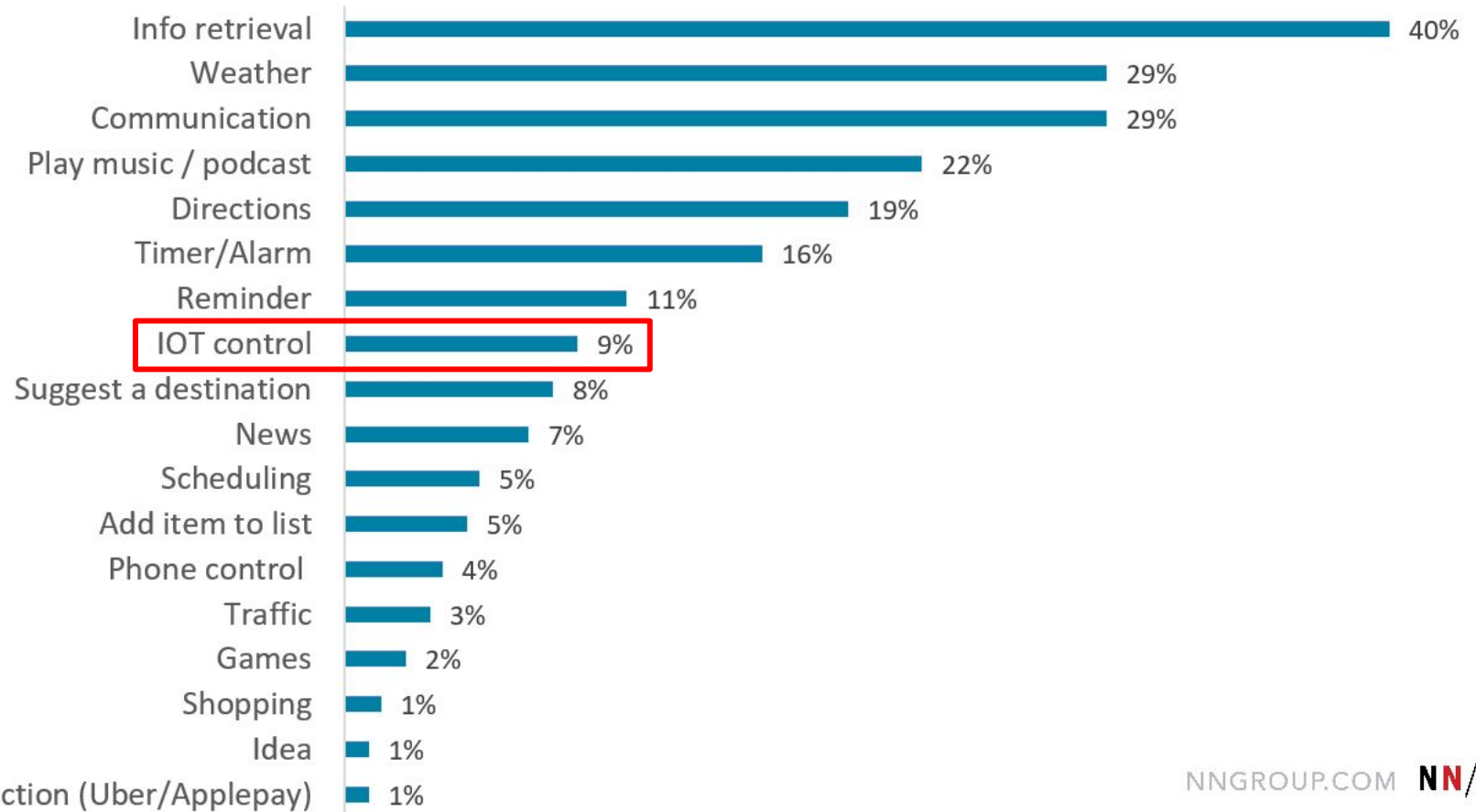
**Google
Now**

**Amazon
Alexa**

How do VUIs work?



Most Common Activities Done with Today's Assistants



Alexa Skills



Game & Trivia Skills

Skills for the Workplace

Kid Skills

Smart Home Skills

Flash Briefing Skills

Custom Skills



Video Skills

Echo Show/Echo Spot Skills

Alexa Custom Skills

- **Easy to create**
- **Define you own interaction model**
- **Requires a Invocation Name**



- Self Service APIs
- Tools
- Documentation
- Code Samples

Skill Invocation Phrase



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Launch phrase

Utterance

Slot

Slot

Alexa, ask Spotify to play Money by Pink Floyd

Wake word

Invocation name

Utterances



“Turn up the volume”

“Volume up”

“Louder”

“Make it louder”

“Set level to 7”

Intent

Utterances

Slots



Play Money

Play Money by Pink Floyd

Play Money by The Beatles

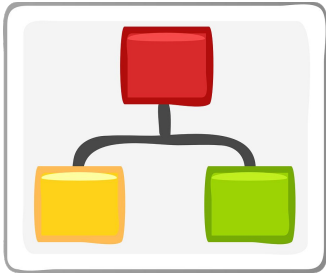
Play The Beatles

Play **{song}** by **{artist}**

Alexa Skill Development Overview



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Design Voice
Interaction
Model



Configure
Alexa Skill



Code in
Amazon
Lambda

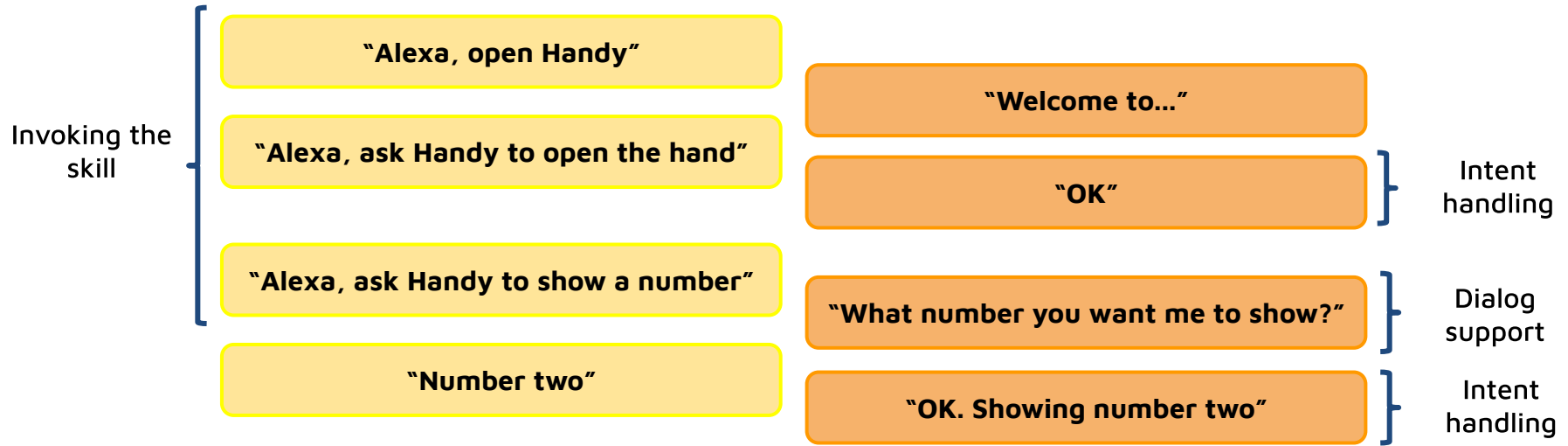


Test
Alexa Skill

Voice Interaction Model



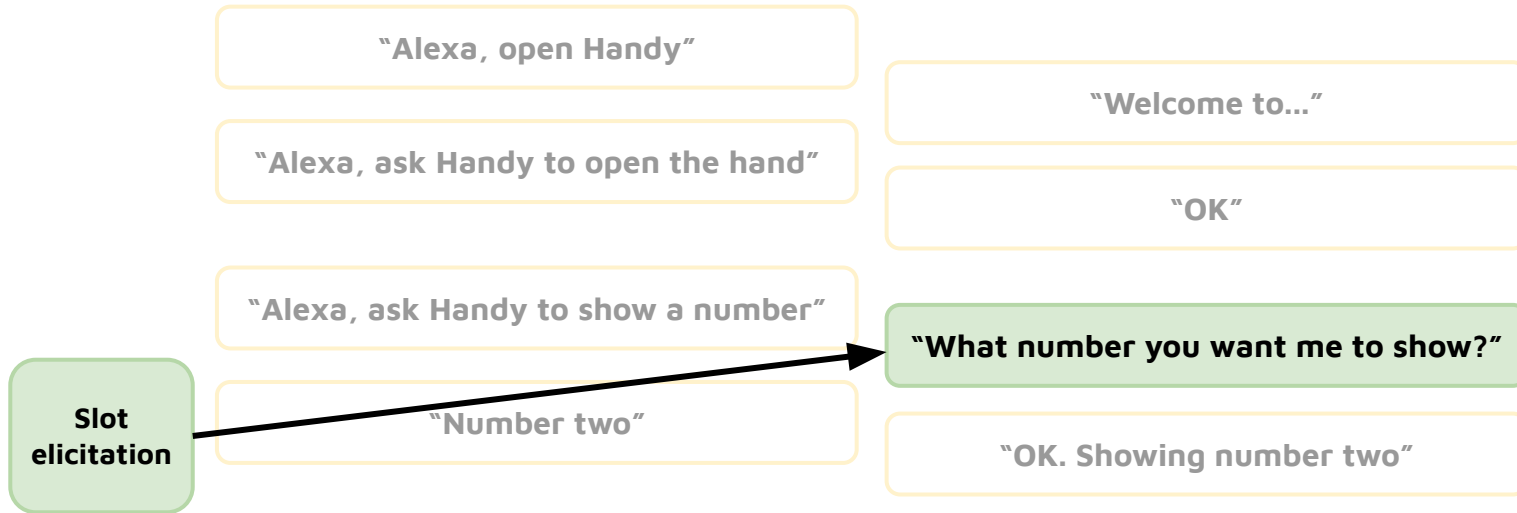
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Voice Interaction Model



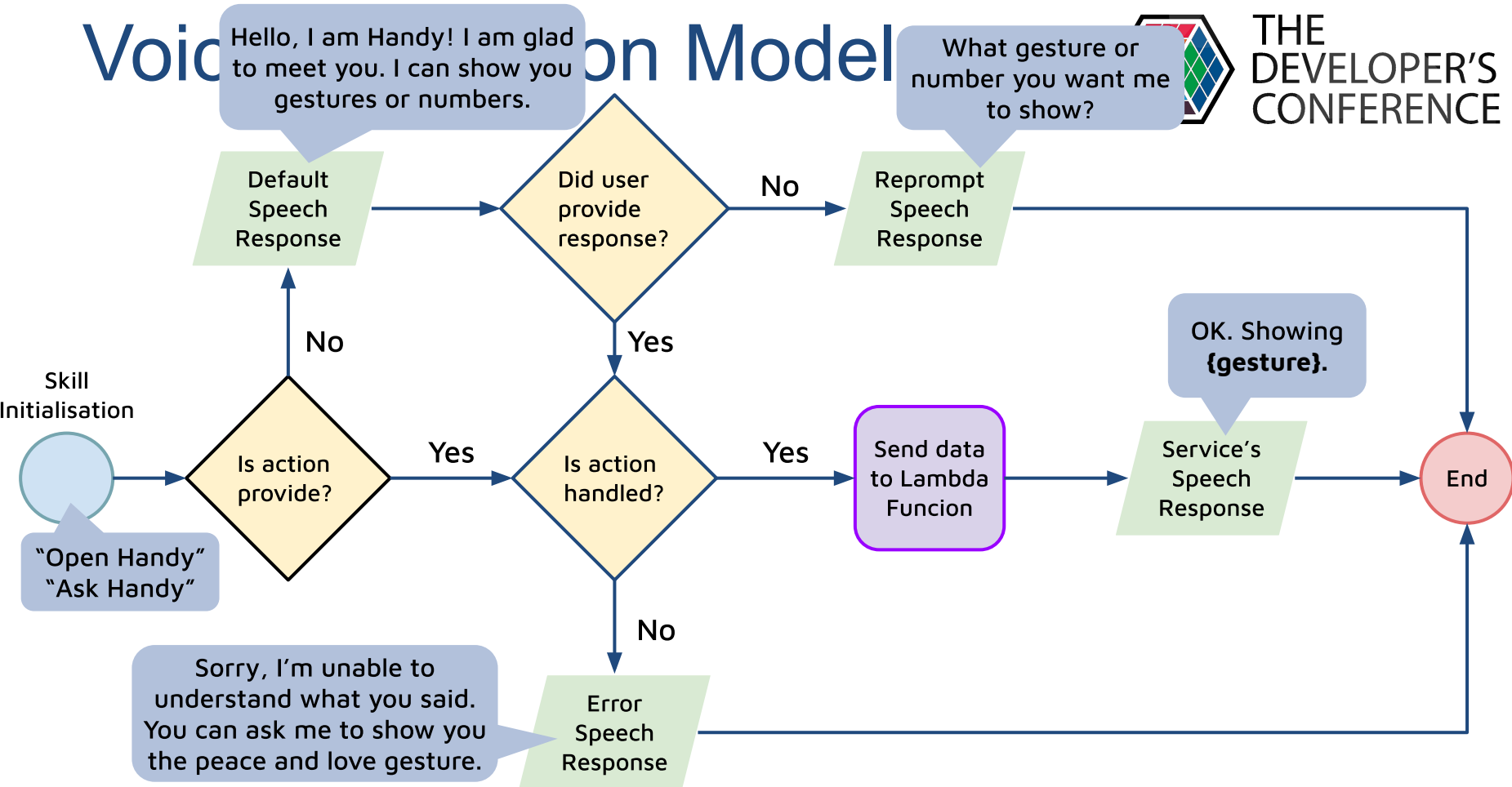
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Voice Interaction Model



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Configure Alexa Skill



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 alexa developer console

Code in Amazon Lambda



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Amazon Lambda

Test Alexa Skill



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Echosim.io

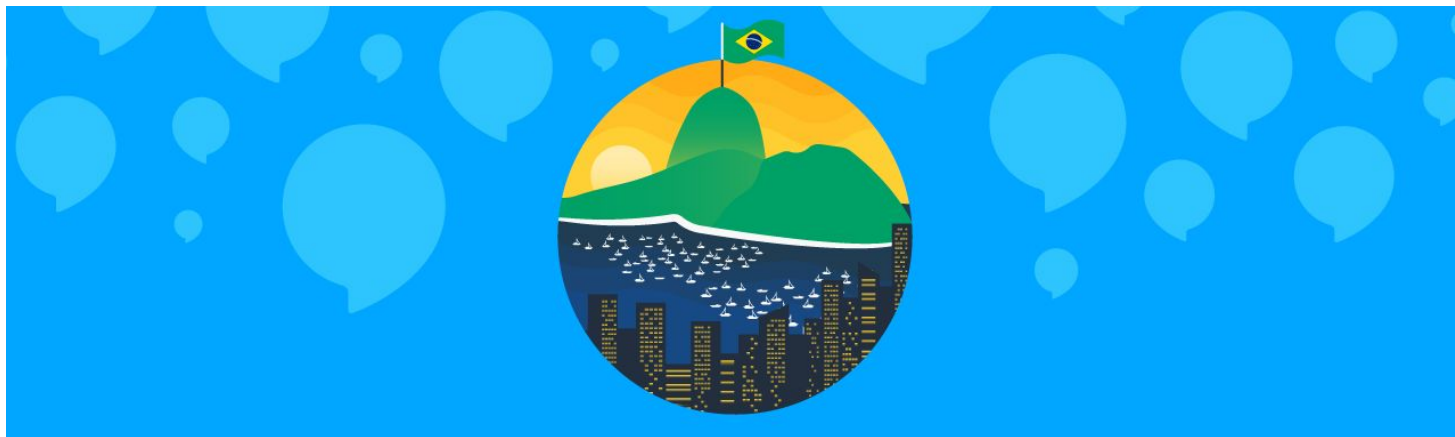
COMMUNITY EDITION **BETA**

Final Thoughts

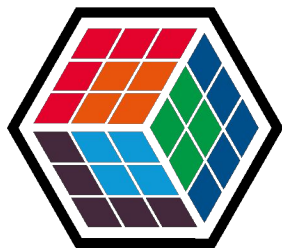


www.twitch.tv/amazonalexa

Final Thoughts



Alexa Skills Kit é lançada para desenvolvedores do Brasil



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Thank You!

Daniel Olsson