

Introduction to Voice UI and Amazon Alexa



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Voice UI

Why Voice UI?

Voice is our natural way of communication

No interface to learn

More approachable, „human“

Convenient

Always present

Hands free

Internet of Things

Enables simple access to everyday things

Meet the gang



Google Home



Amazon Echo



Apple HomePod

**Let's build an
Alexa Skill**

Design a voice UI

What do you want to do?

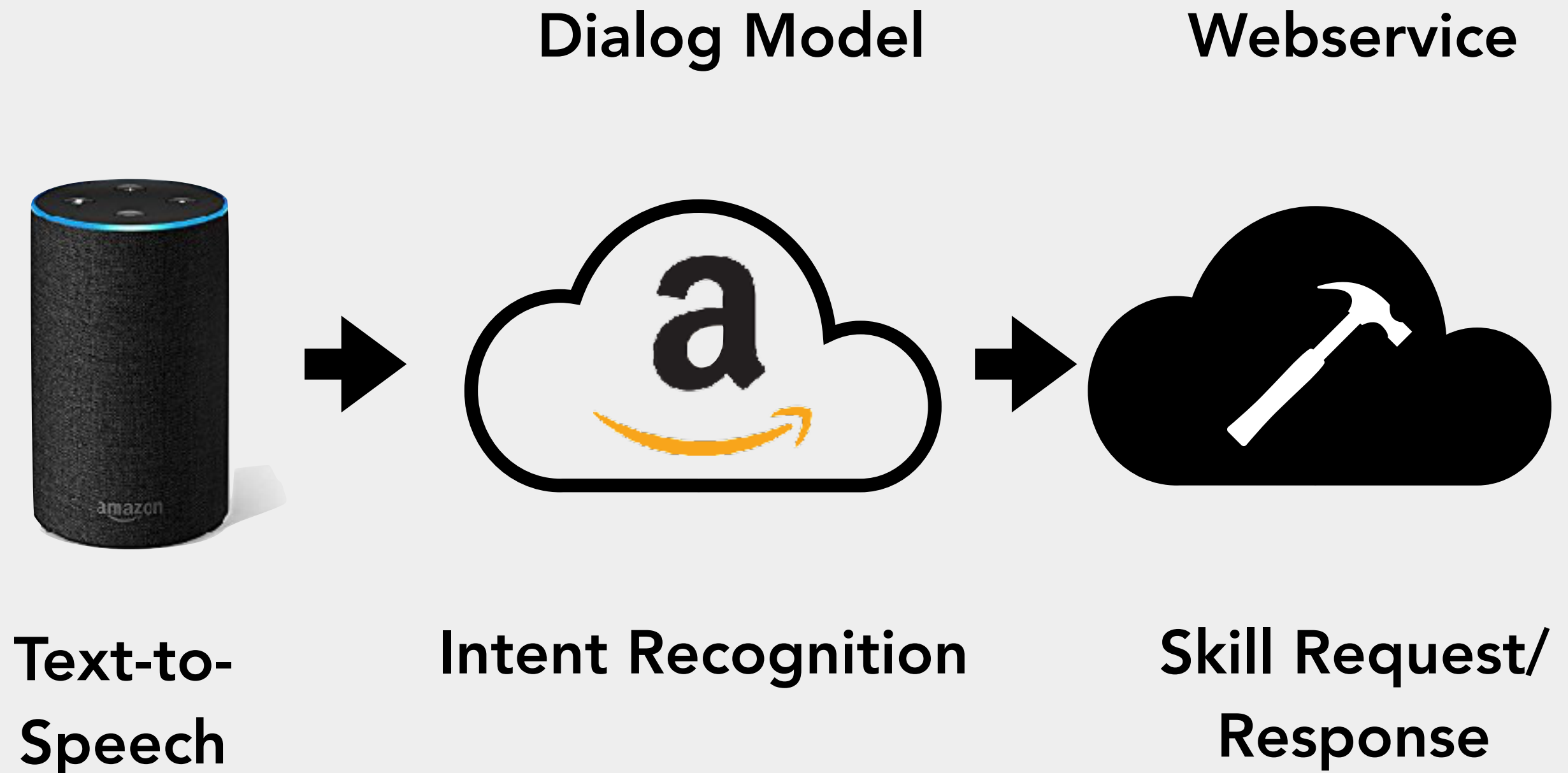
Control the USS Enterprise with
Alexa

**Write dialogs &
compose the flow**

„Alexa, ask Enterprise to raise
the shields!“

Build the skill

Parts of a skill



Dialog model

Intents

„Individual things a skill can do“

Utterances

What a user has to say to invoke an intent

„Raise shields“, „Shields Up“, „Shields to 100%“

Slots

Values the user passes to an intent inside an utterance

„Shields to **100%**“

Built using the Amazon Skill Builder

Demo

Alexa Skill Builder

Webservice

Receives intent request and provides response

NodeJS (Amazon Skill Kit SDK) & many 3rd party SDKs

Self hosted

Requires TLS

Skill removed if too much downtime

Using Amazon Lambda

(Theoretically) costs money

Convenient access to AWS services (e.g. DynamoDB)

Demo

AWS Lambda & ASK

Next steps

Storing shield status

E.g. in AWS DynamoDB

Adding intents

„Lower shields“, „Fire phasers“

Thank you

code & slides: github.com/evenlyio/voice-ui-intro