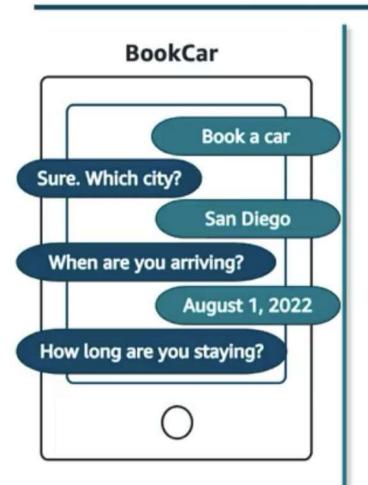
Amazon Lex

Amazon Lex is a fully managed artificial intelligence service that supports conversions through voice and text chat interfaces.



Amazon Lex

Bots, slots, and intents: Concepts



- A bot is a computer program that simulates a human activity.
- An intent is a task—with one or more utterances that launches an intent conversation.
- Intents contain multiple slots. Each slot has one or more prompts to elicit the response.

Bots, slots, and intents: Examples

Bot

Book Travel

Intent

BookCar

sampleUtterances

- · Book a car
- Reserve a car
- Make a car reservation

slots

- · Location: Sure. Which city?
- · CheckIn: When are you arriving?

Intent

BookHotel

sampleUtterances

- · Book a hotel
- Make a reservation
- Reserve a hotel

slots

- Location: Sure. Which city?
- CheckIn: When are you arriving?

Bots, slots, and intents: Dive deep

Intent: BookCar

sampleUtterances

- Book a car
- · Reserve a car
- Make a car reservation

promptSpecification: Okay, I located a car for a {Nights} night stay in

{Location} starting {CheckInDate}. Shall I book the reservation?

declinationResponse: Okay, I have cancelled your reservation in progress.

dialogCodeHook 🔊



fulfillmentCodeHook (A)



Bots, slots, and intents: Slot types

Slot: RoomType

SlotType: RoomTypeValues

SlotConstraint: Required

Prompt: What type of room would you like, queen, king or deluxe?

Slot Type: RoomTypeValues

Slot Resolution: Restrict to Slot Values

EnumerationValues:

- Queen
- King
- Deluxe



Built-in intents

Amazon Lex provides multiple built-in intents, such as the following:

- AMAZON.HelpIntent
- AMAZON.PauseIntent
- AMAZON.RepeatIntent
- AMAZON.CancelIntent



Built-in slot types

Built-in slot types help Amazon Lex recognize and handle slot data.

AMAZON.Date







Code hooks

Use code hooks to customize user interaction, validate user input, and fulfill user intent.





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Fulfillment code hook event

- bot: aliasName, aliasId, name, version, localeId
- sessionState.intent: name, slots, slotDetails
- invocationSource
- transcriptions



Fulfillment code hook response

- sessionState.sessionAttributes
- sessionState.dialogAction
 - type

Close No further response

ConfirmIntent Yes or no to confirm

Delegate Let Amazon Lex decide

ElicitIntent Go to an intent

ElicitSlot Go to a slot

slots.state



