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ALX403-R

# Build an Alexa Gadget

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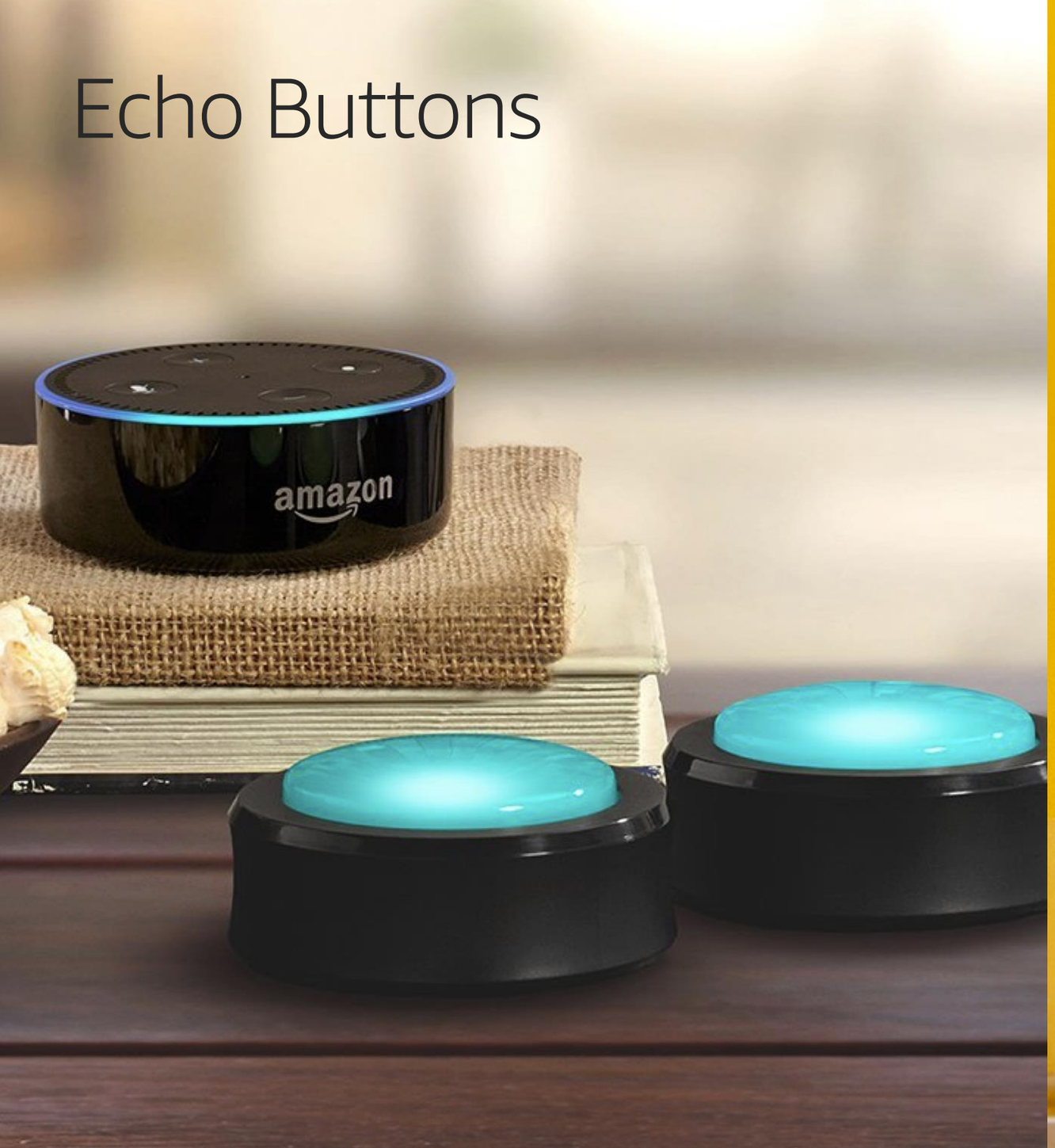
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# What are Alexa Gadgets?

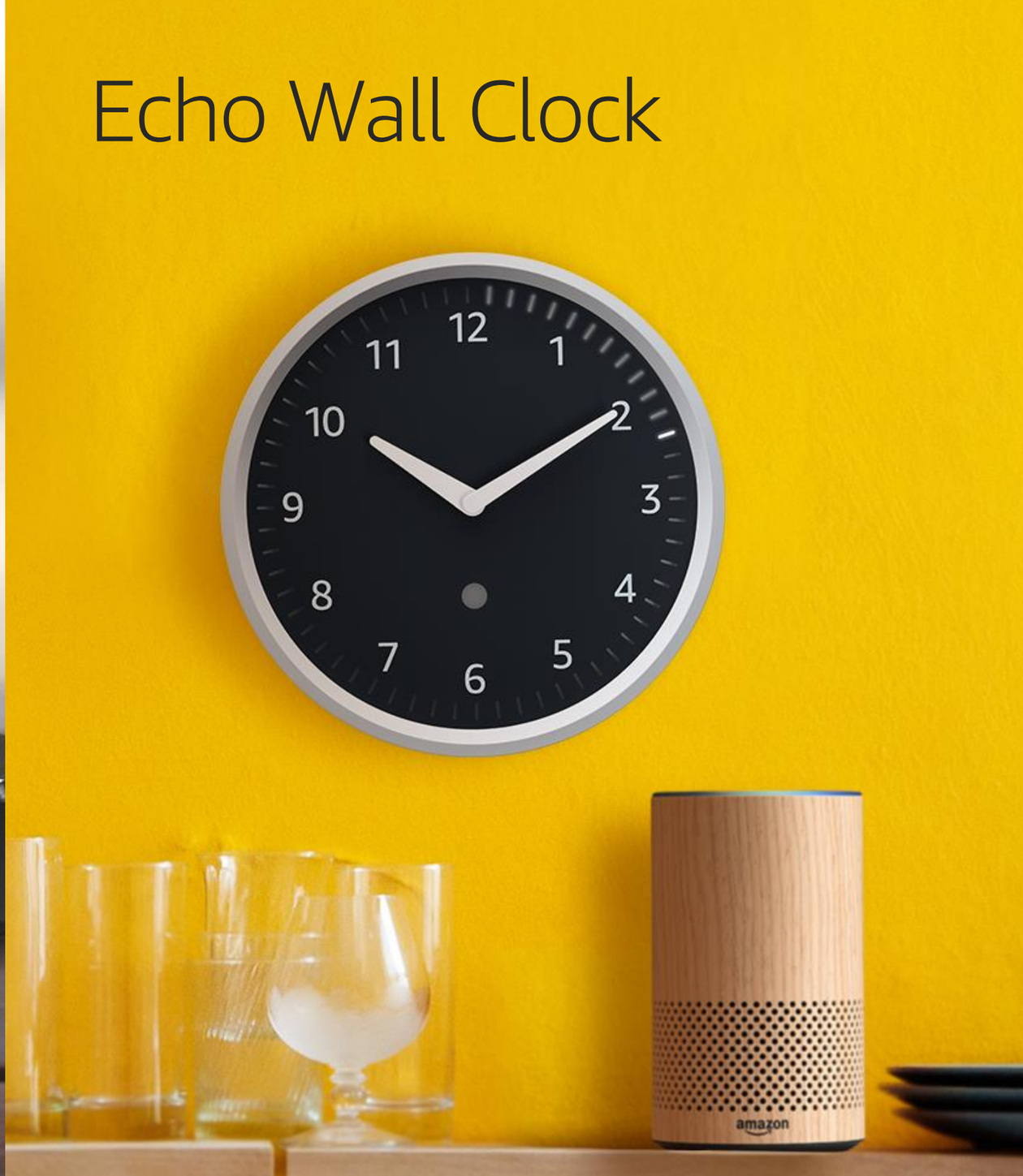


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# Echo Buttons




# Echo Wall Clock

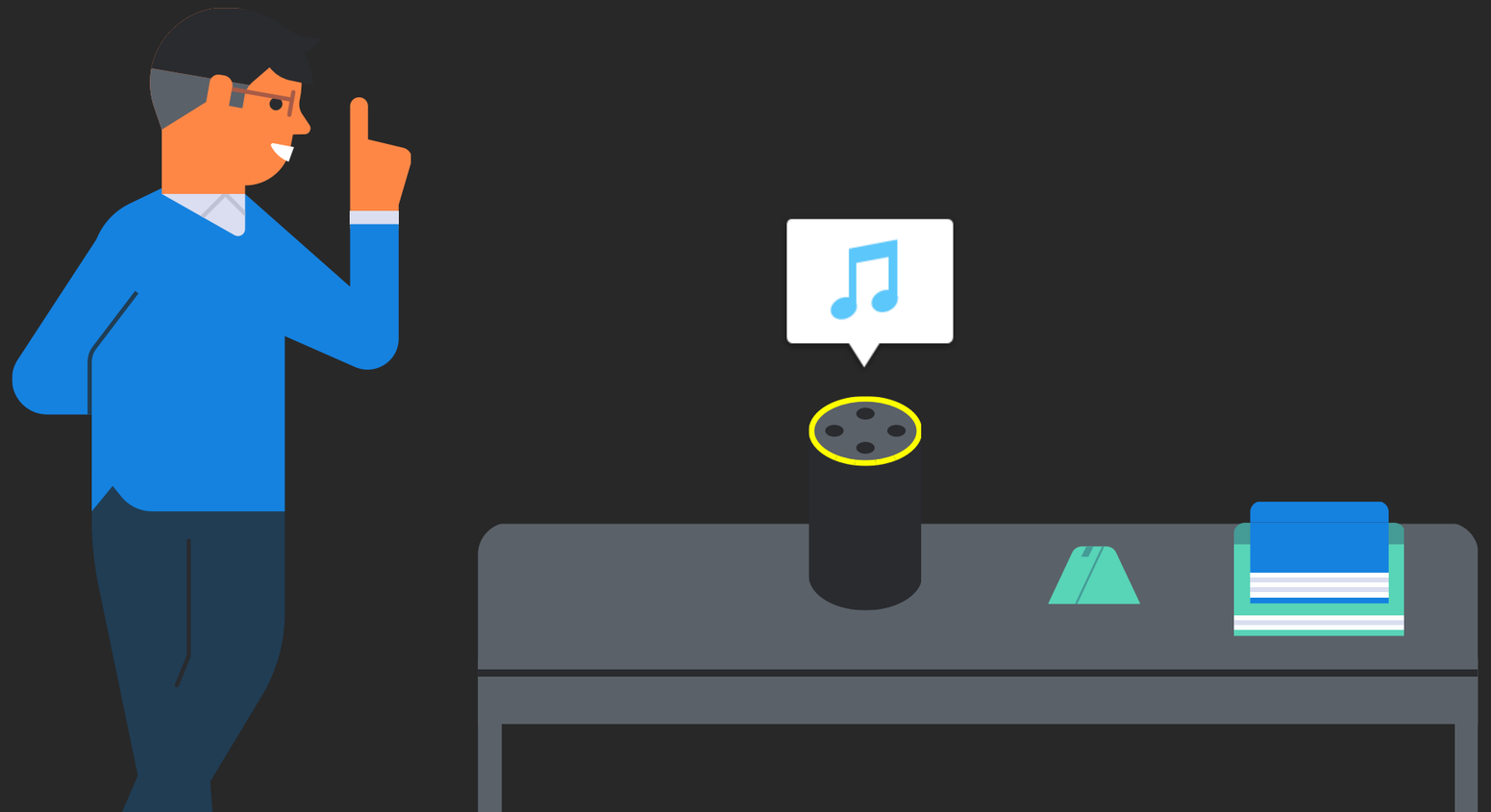


# Alexa Gadgets is a category of connected products that enhance voice interactions with compatible Amazon Echo devices

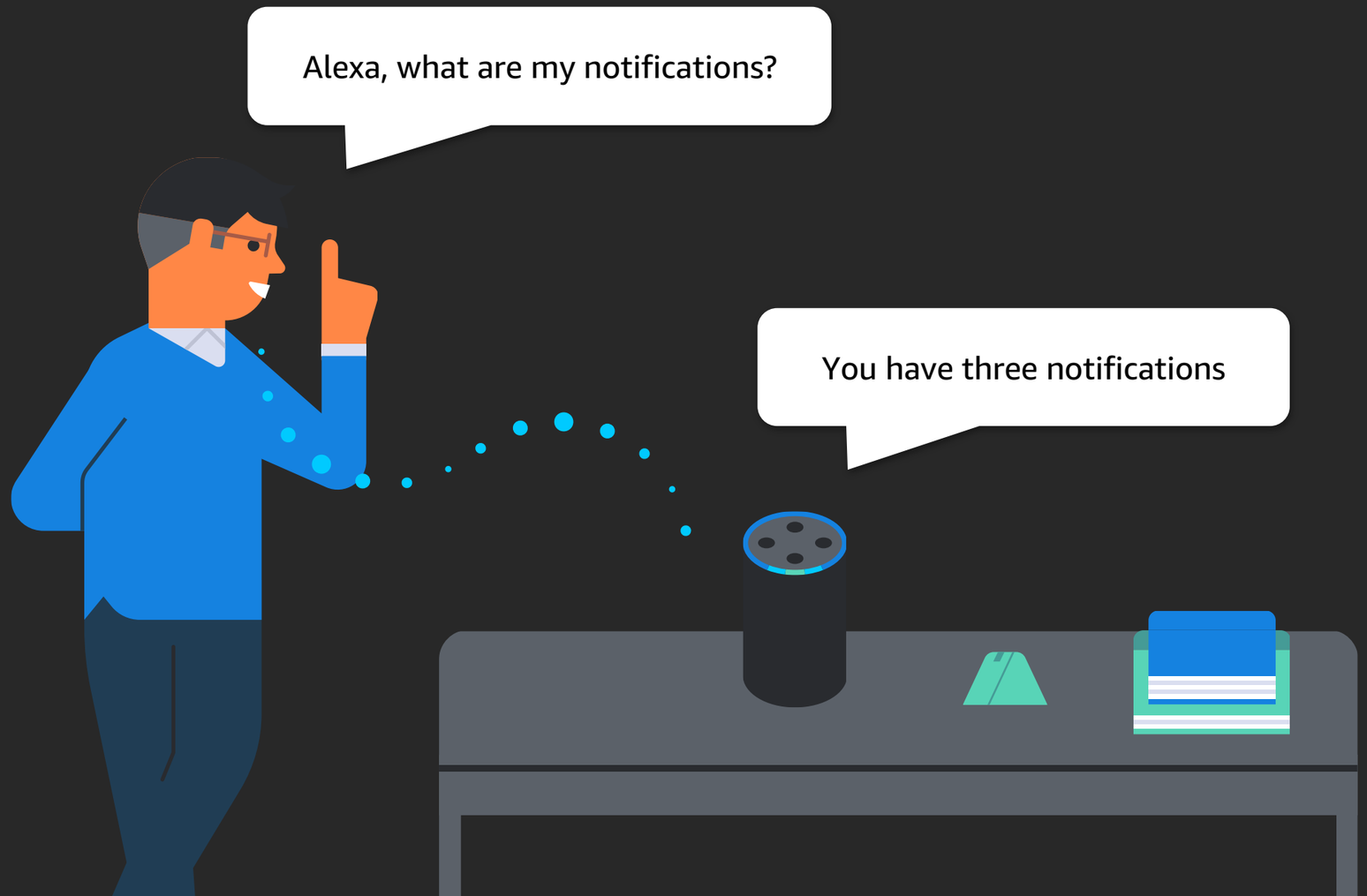


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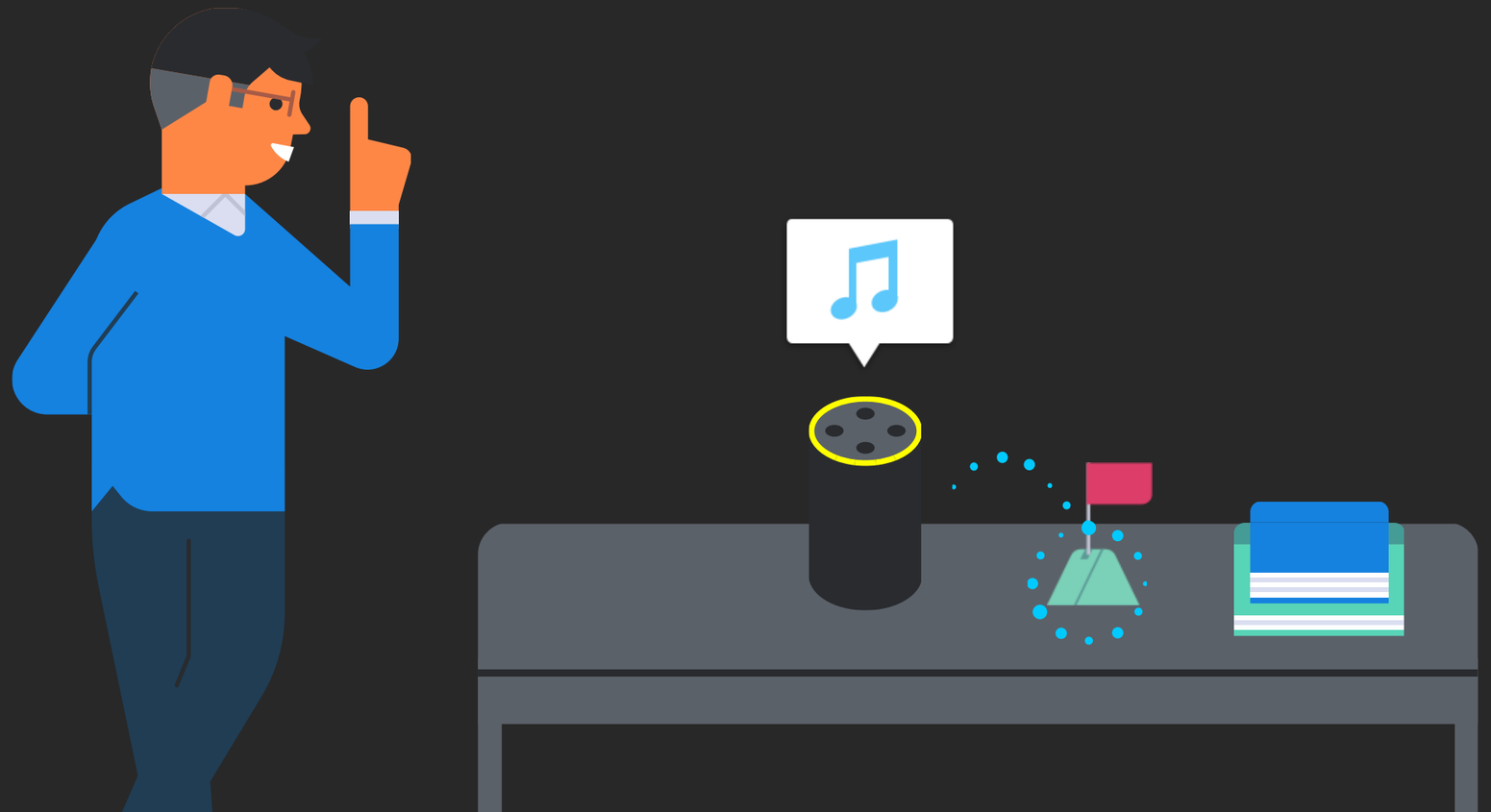
# Notification received



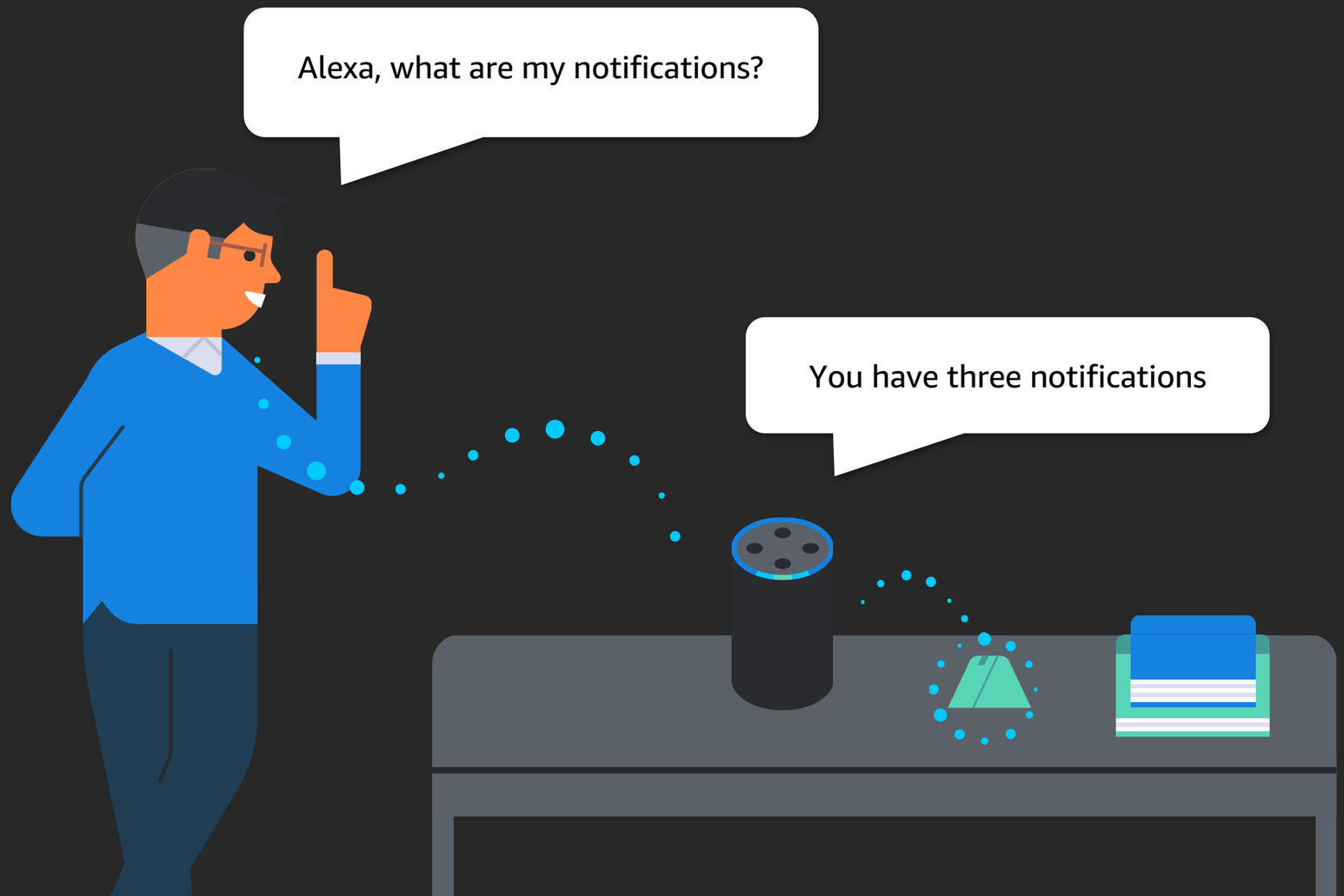
# Notification cleared



# Notification received: Gadget reacts



# Notification cleared: Gadget reacts



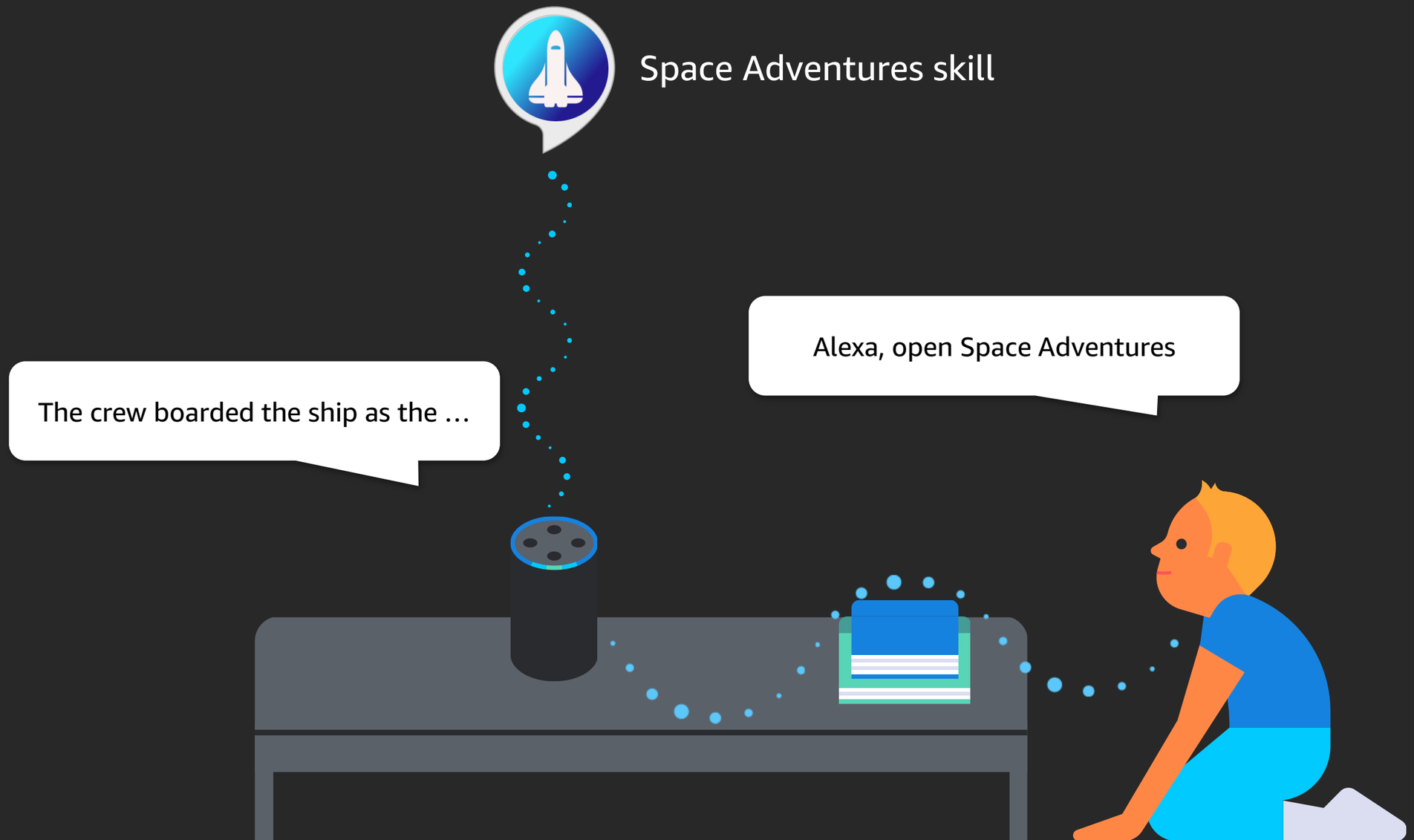

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# Alexa Gadgets can also interact with interfaces you define through an Alexa skill

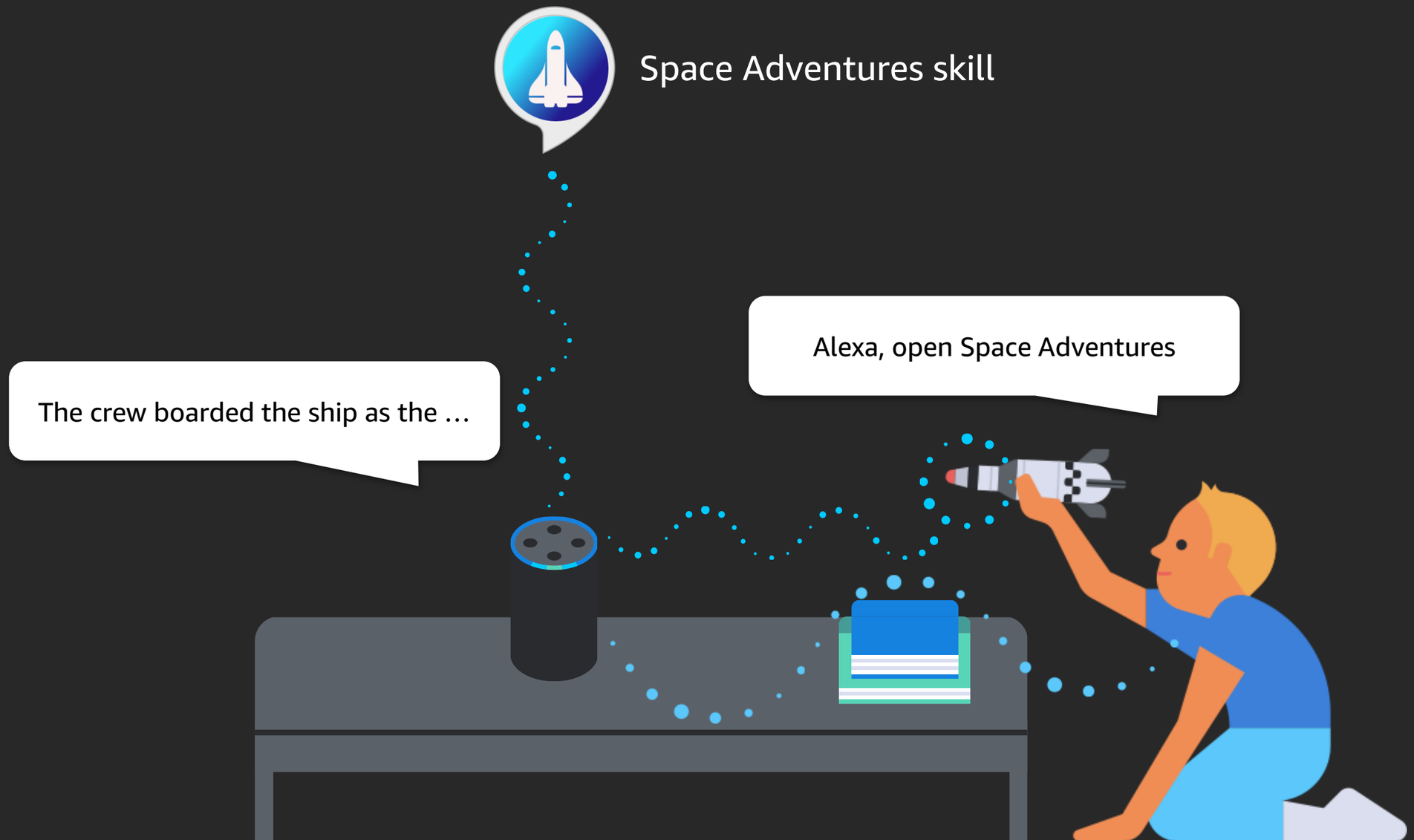


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# Alexa skill


Space Adventures skill
Alexa, open Space Adventures
The crew boarded the ship as the …

# Alexa skill: Gadget interactions







# How do Alexa Gadgets work?



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# Powered by Alexa Gadgets Toolkit



Self-service APIs



Tech documentation



Sample code



Reference projects

# Alexa Gadgets Toolkit: Defined interfaces



Wake word detection



Speechmark data



Notifications



Current time



Timers, alarms, reminders

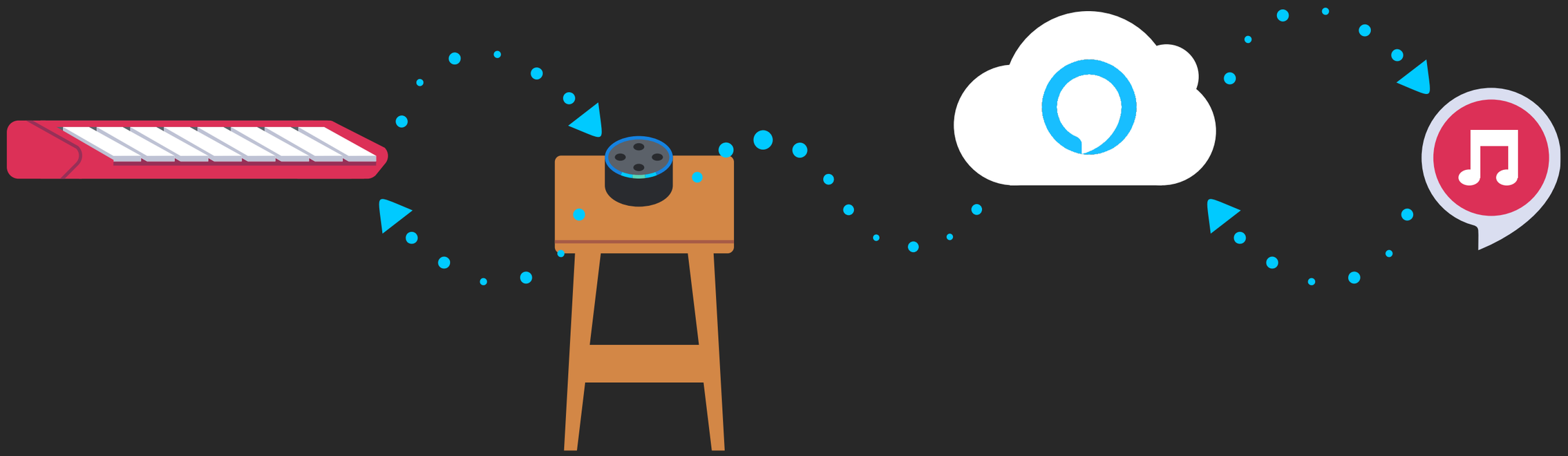


Tempo data

# Echo Wall Clock



# Alexa Gadgets Toolkit: Custom interfaces

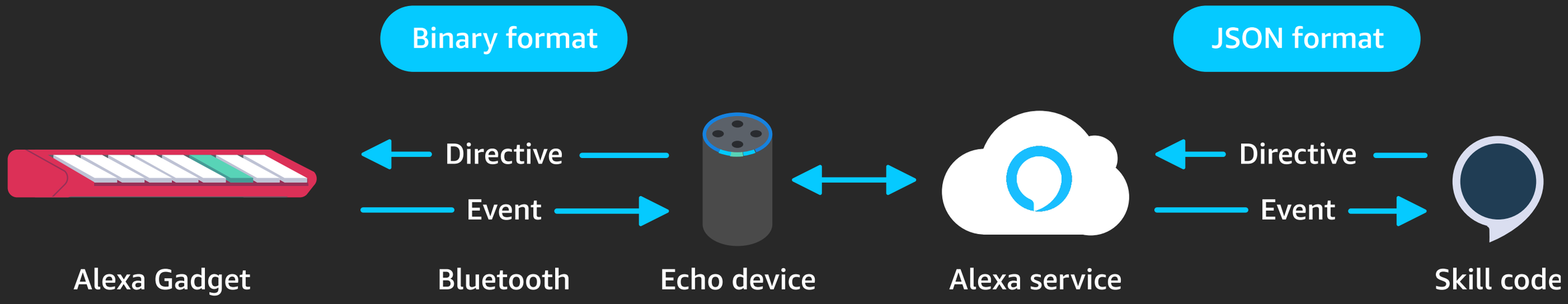


Your Alexa skill can trigger behaviors and act on information it receives from your gadget

# Echo Buttons



# Alexa Gadget data flow



# What are you going to build?



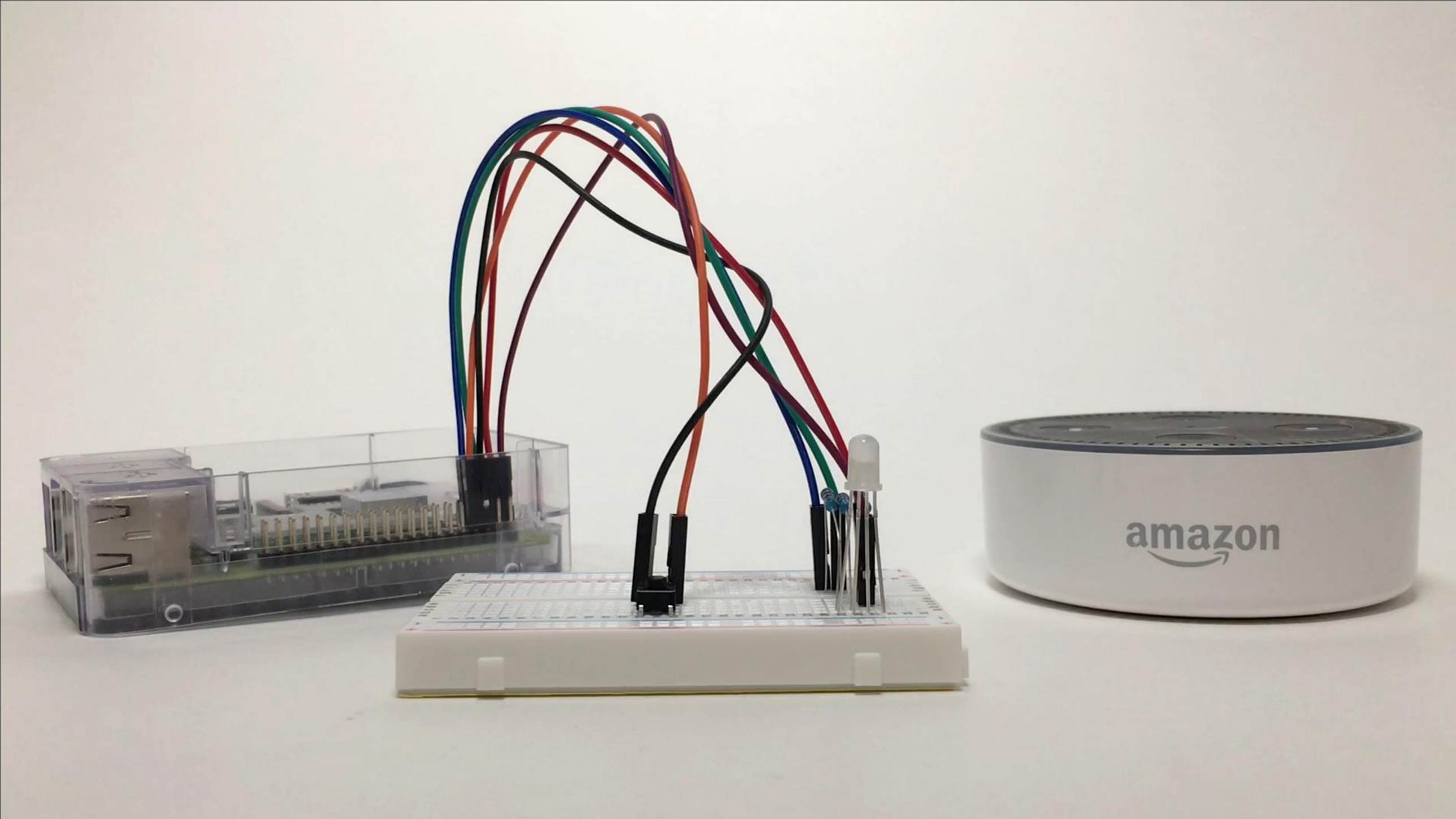
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# What are your ideas?



The prototypes you saw were built using Alexa Gadgets Python sample code and projects:

github.com/alexa/Alexa-Gadgets-Raspberry-Pi-Samples


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# In this workshop, you will:

Register an Alexa Gadget and connect it to the Echo device (30 minutes)

Assemble hardware and get it working with an Alexa skill (30 minutes)

Customize your gadget (30 minutes)

**Resources**

- Workshop guide: alexa.design/build-a-gadget
- Wifi - SSID: @re:Invent2019 - Password: @aws2019

# Wrapping up

**Resources**

- github.com/alexa/Alexa-Gadgets-Raspberry-Pi-Samples
- developer.amazon.com/en-US/alexa/alexa-gadgets/resources
- alexa.design/lego

Save the date for Amazon re:MARS, June 16-19, 2020

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aws training and certification

# Thank you!

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