

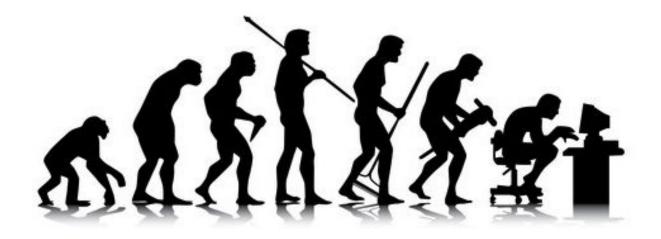
Building Conversational Experiences with Actions on Google



@AlexKorovyansky CTO, Effective

























Ready to help everywhere









The Google Assistant

A conversation between you and Google that helps you get things done in your world.



Devices with the Google Assistant built-in

These include voice activated speakers like Google Home, Android phones, iPhones etc.





A growing audience: languages

US English	CA French	German	Swedish	Dutch	Japanese	LATAM Spanish
UK English	CA English	Spanish	Danish	Russian	Korean	BR Portuguese
AU English	FR French	Italian	Norwegian	Thai	Indonesian) Hindi & IN English

Build Actions For Your Community

A growing audience: devices

















BLUE OCEAN STRATEGY

How to Create Uncontested Market Space and Make the Competition Irrelevant

W. Chan Kim • Renée Mauborgne



The Google Assistant

A conversation between you and Google that helps you get things done in your world.

Actions on Google

How developers can extend the assistant

Devices with the Google Assistant built-in

These include voice activated speakers like Google Home, Android phones, iPhones etc.

Platform for you apps



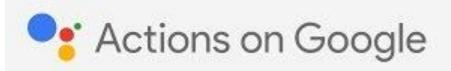
How does it work?

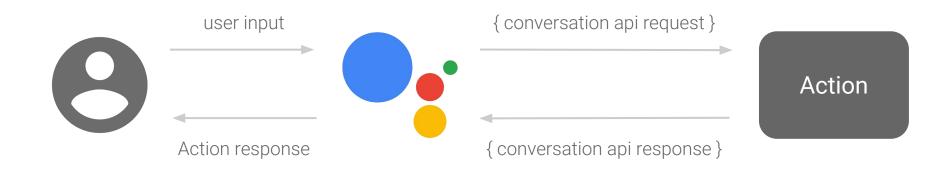




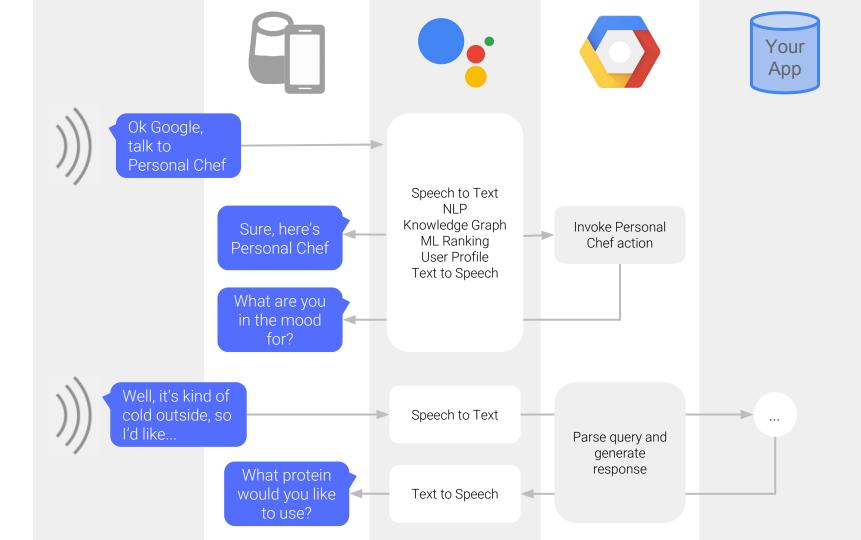


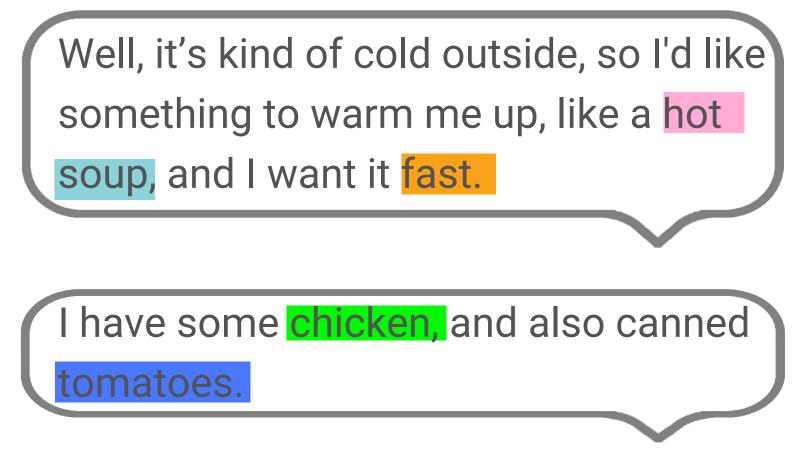
Introduction to Conversation Actions















"

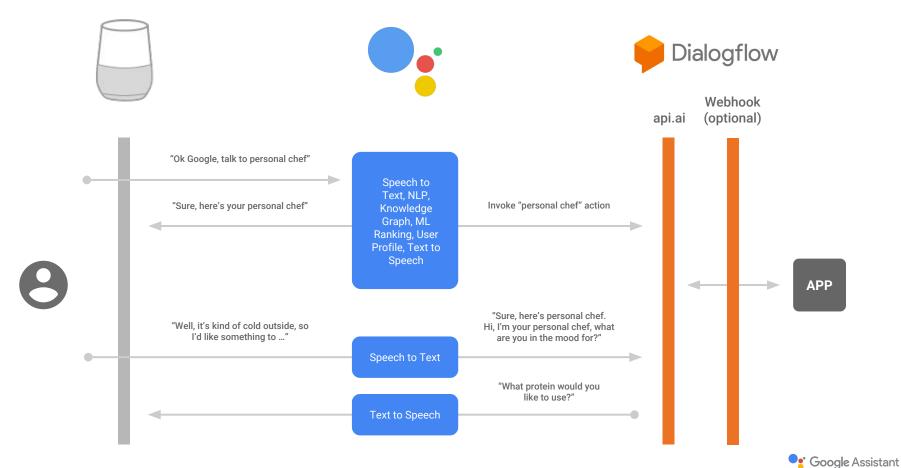
Intent Matching – Match and categorize user utterances to an intent.



Entity Extraction – Identify key words and phrases spoken by the user.

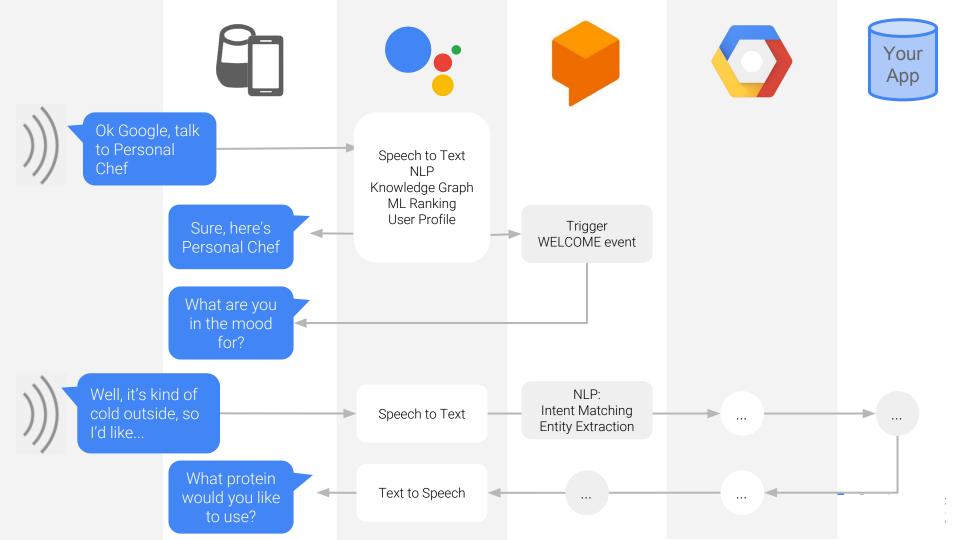


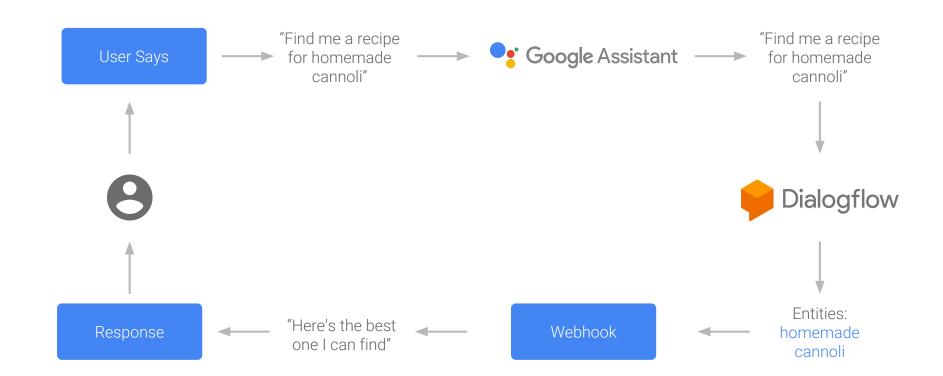
Dialogflow	■ recipe-recommendation SAVE	
PersonalChef 🚽 🔆	Contexts	
💬 Intents 🛛 🕂	User says Search in user says Q	
👫 Entities 🕂	99 Add user expression	
Domains	55 Chicken sounds good to me.	
Straining ^[beta]	55 I'd like a cold dessert and I want it right now.	
Integrations	55 Do you know a recipe for a very quick meal?	
Fulfillment 5 Do you have a recipe for a quick hot soup?		
 > Docs J1's really cold outside. What do you suggest to help me warm up? 		
> Forum	55 What can I do with potatoes and lamb?	
	Events 🚱	



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Demo

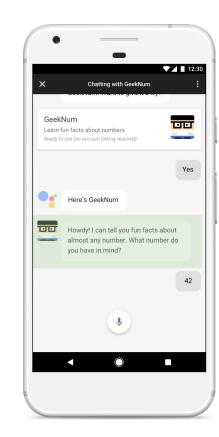




Support speech and display text

https://developers.google.com/actions/assistant/responses

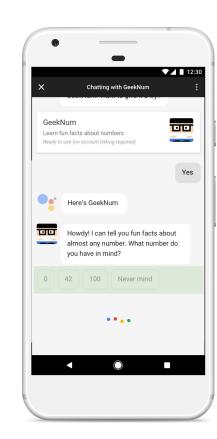
```
function simpleResponse (app) {
  app.ask({
    speech: 'Howdy! I can tell you fun facts about ' +
        'almost any number, like 42. What do you have in mind?',
    displayText: 'Howdy! I can tell you fun facts about ' +
        'almost any number. What do you have in mind?'
    });
}
```







Guide the user (suggestion chips)





Display basic cards

https://developers.google.com/actions/assistant/responses

```
function basicCard (app) {
  app.ask(app.buildRichResponse()
   .addSimpleResponse('Math and prime numbers it is!')
   .addBasicCard(
    app.buildBasicCard(`42 is an even composite number. It ` +
    `is composed of three distinct prime numbers multiplied together. It ` +
    `has a total of eight divisors. 42 is an abundant number, because the ` +
    `sum of its proper divisors 54 is greater than itself. To count from ` +
    `1 to 42 would take you about twenty-one...`)
   .setTitle('Math & prime numbers')
   .addButton('Read more')
   .setImage('https://example.google.com/42.png', 'Image alternate text')
   )
   );
```





Lists and carousels for selection

https://developers.google.com/actions/assistant/responses



Used for easy selection

<10 items



Used for comparison <30 items



Ask for information

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https://developers.google.com/actions/assistant/helpers#user_information

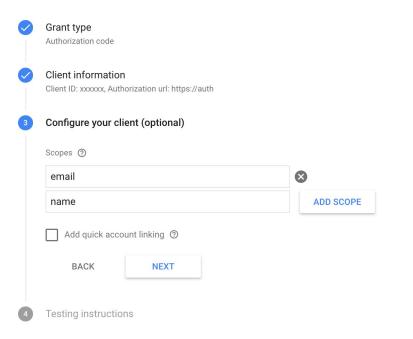
let permission = app.SupportedPermissions.DEVICE_COARSE_LOCATION; app.askForPermission('To find bookstores near you', permission);

Q: "Recommend me a local		Google Home	Mobile Device
bookstore"	NAME	Registered device user's full name	Registered device user's full name
A: "To find bookstores near you, I'll just need to get your zip code	DEVICE_COARSE_LOCATION	Zip code and city	N/A
from Google. Is that okay?"	DEVICE_PRECISE_LOCATION	Coordinates and street address	Coordinates



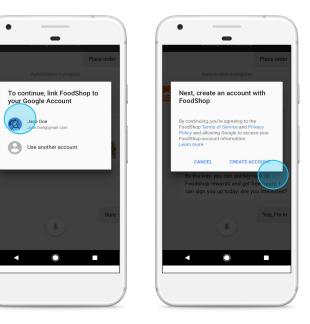
Link an account to your OAuth2 server

https://developers.google.com/actions/identity/



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Seamless account linking with Google Sign-in

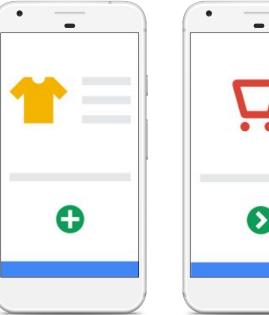


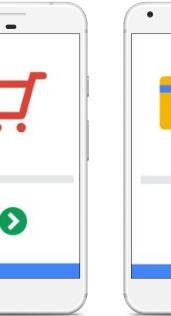


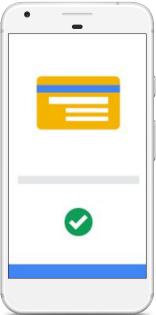
Transact with the user

https://developers.google.com/actions/transactions (check policies and guidelines for availability)

- Build orders
- Use Google provided
 payment instrument
- Use your payment processor (Stripe, Braintree, Vantiv, more coming)
- Update order statu



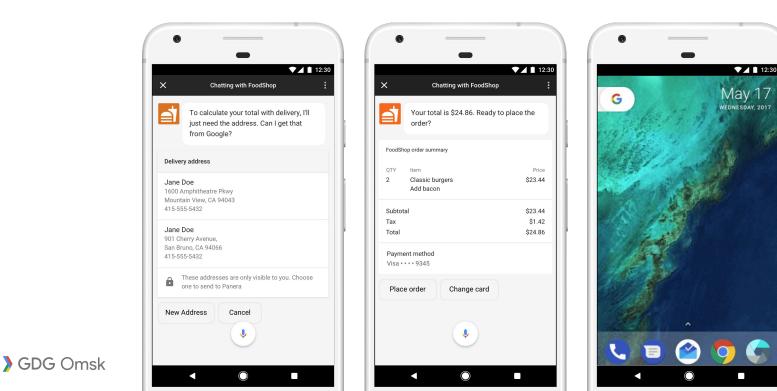






Transact with the user

https://developers.google.com/actions/identity

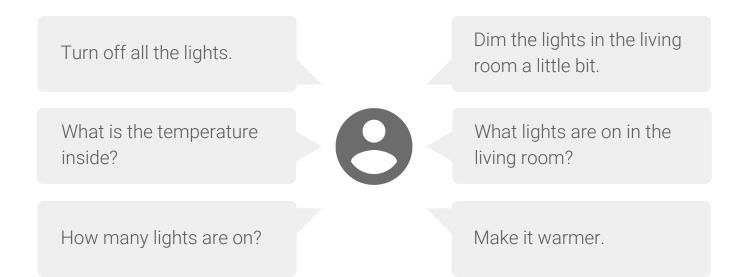


Google Assistant

Build Actions For Your Community

Smart Home Device Integration

developers.google.com/actions/smarthome/





Google Assistant SDK

developers.google.com/assistant/sdk











Build your team

source: pexels.com

Start creating your Action - get recognized

Follow these steps to have an Action you create between March 19 and July 15 recognized as part of the event series and be listed on the Google series website and possibly get a shout out in a session at the Google I/O Community Lounge:

- 1. Go to the console: bit.ly/buildactions-console
- Start a new project beginning with BAFYC followed by the planned Action name (should be already the Action name)

Add project		×
Project name		
BAFYC your project name		
Country/region ⑦		
United States		
	CANCEL	CREATE PROJECT



Start creating your Action - get recognized

No worries...

you can change the project name!

- 1. Click on the settings symbols in the console to change Project settings
- 2. Change the project name (Project ID stays with prefix)

A	Overview	\$ Project settings
 ⊘ 	Analytics Simulator	Managed in Google Cloud Platform 🚫 Permissions 🖄
¢	Backend services	Assis



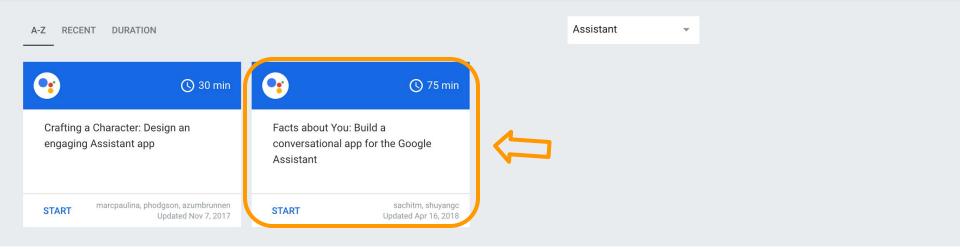




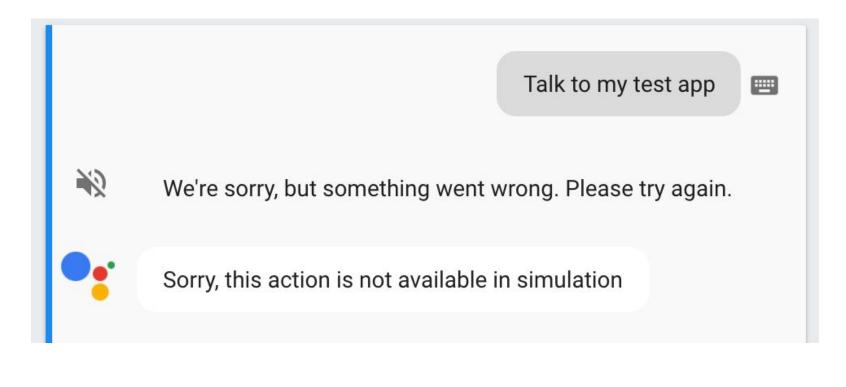
Welcome to Codelabs!

Google Developers Codelabs provide a guided, tutorial, hands-on coding experience. Most codelabs will step you through the process of building a small application, or adding a new feature to an existing application. They cover a wide range of topics such as Android Wear, Google Compute Engine, Project Tango, and Google APIs on iOS.

VIEW EVENTS



https://codelabs.developers.google.com/codelabs/assistant-dialogflow-nodejs



https://stackoverflow.com/a/46698908