



Google Assistant

Build Actions For Your Community

GDG Seattle



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GDG Seattle Welcome



Code of Conduct

Be excellent to each other.

Treat everyone with respect. Participate while acknowledging that everyone deserves to be here — and each of us has the right to enjoy our experience without fear of harassment, discrimination, or condescension, whether blatant or via micro-aggressions. Jokes shouldn't demean others. Consider what you are saying and how it would feel if it were said to or about you.

Practice saying "Yes and" to each other.

It's a theatre improv technique to build on each other's ideas. We all benefit when we create together.

Speak up if you see or hear something.

Harassment is not tolerated, and you are empowered to politely engage when you or others are disrespected. The person making you feel uncomfortable may not be aware of what they are doing, and politely bringing their behavior to their attention is encouraged.

In case you see or hear something or feel uncomfortable, reach out to GDG Seattle organizers.



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Google Assistant

Build Actions For Your Community

Learn how to build Actions for the Google Assistant that are useful
for [your community](#) - whether it's a professional network,
interest group, or your hometown.



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Full Day of Actions on Google

1. Knowledge Overview Talks + Codelabs
2. Creation Build Actions for the Google Assistant
3. Share Showcase your Action
4. Feedback Give Feedback to the Product Team



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Detailed Agenda

10:00 am Welcome

10:10 am Building Conversational Experiences

10:40 am Conversational Design

11:10 am Coffee Break

11:25 am Codelab: Build Actions for the Google Assistant (Level 1)

12:00 pm Lunch

1:00 pm Creating your own Actions for the Google Assistant

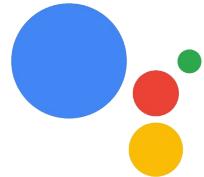
3:30 pm Demo your Actions

4:00 pm Wrap Up



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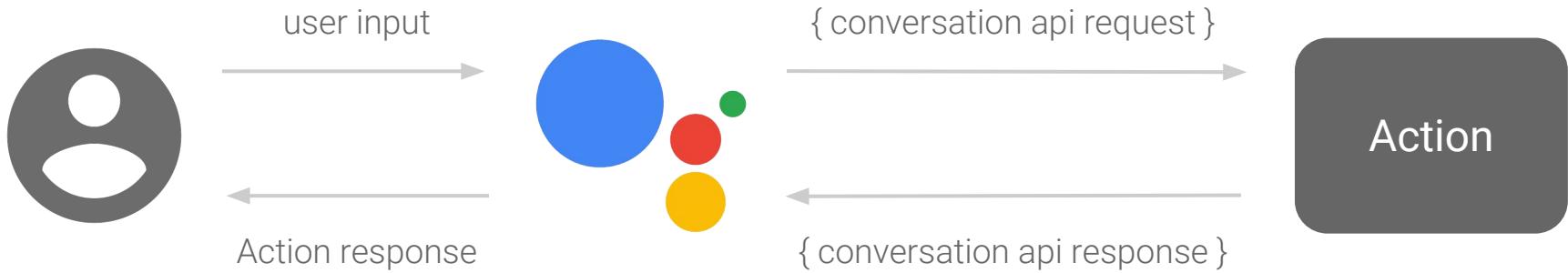




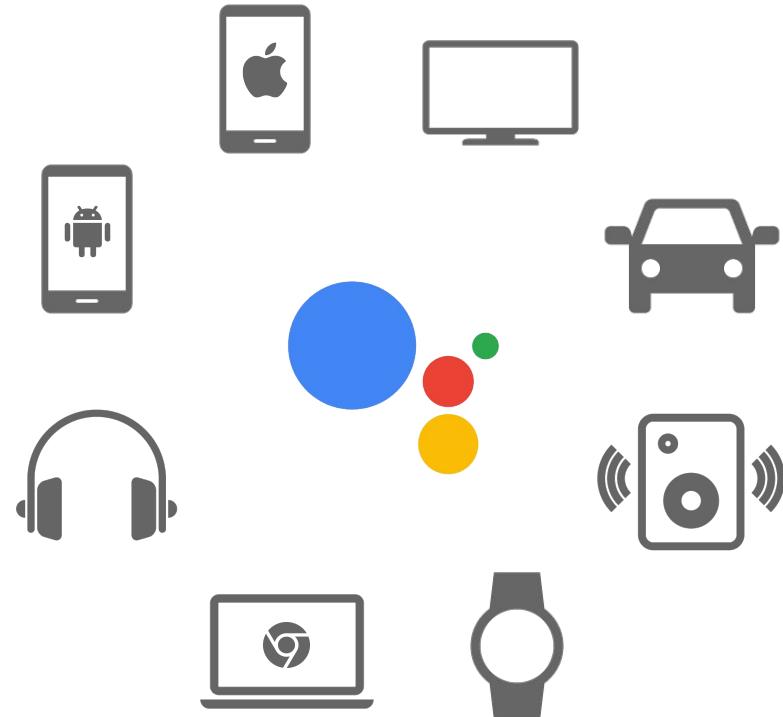
Building Conversational Experiences



Jessica Dene Earley-Cha | Developer Advocate | Google
@chatasweetie | #AoGDevs

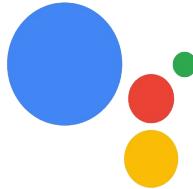


Ready to
help across
500M+ devices



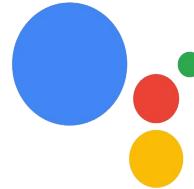
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The Google Assistant

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



Actions on Google

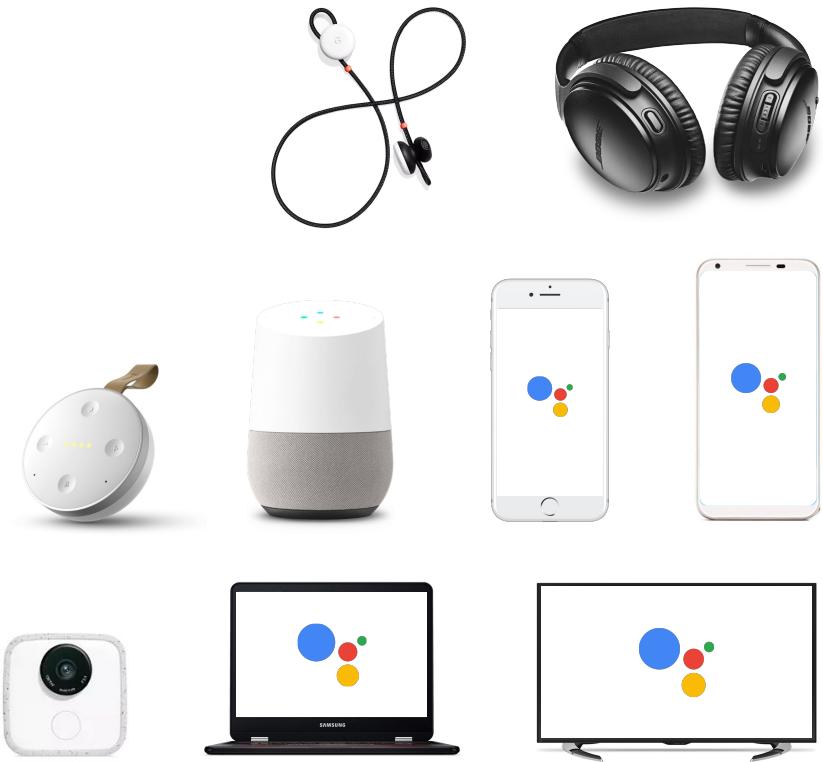
How developers can extend the assistant



Devices with the Google Assistant built-in

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

A growing audience: devices



A growing audience: languages



US English



CA French



German



Swedish



Dutch



Japanese



LATAM Spanish



UK English



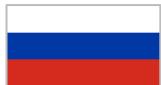
CA English



Spanish



Danish



Russian



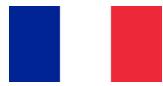
Korean



BR Portuguese



AU English



FR French



Italian



Norwegian



Thai



Indonesian



Hindi & IN English

Hey Google, talk
to _____.

Hey Google,
get _____.

Hey Google, connect
me with _____.

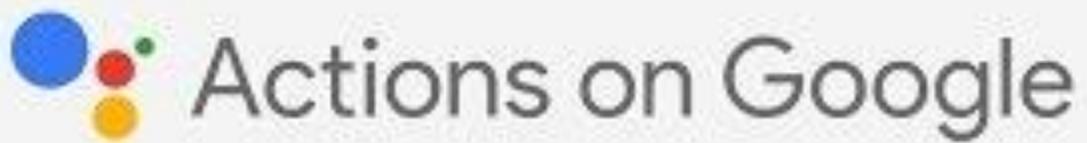


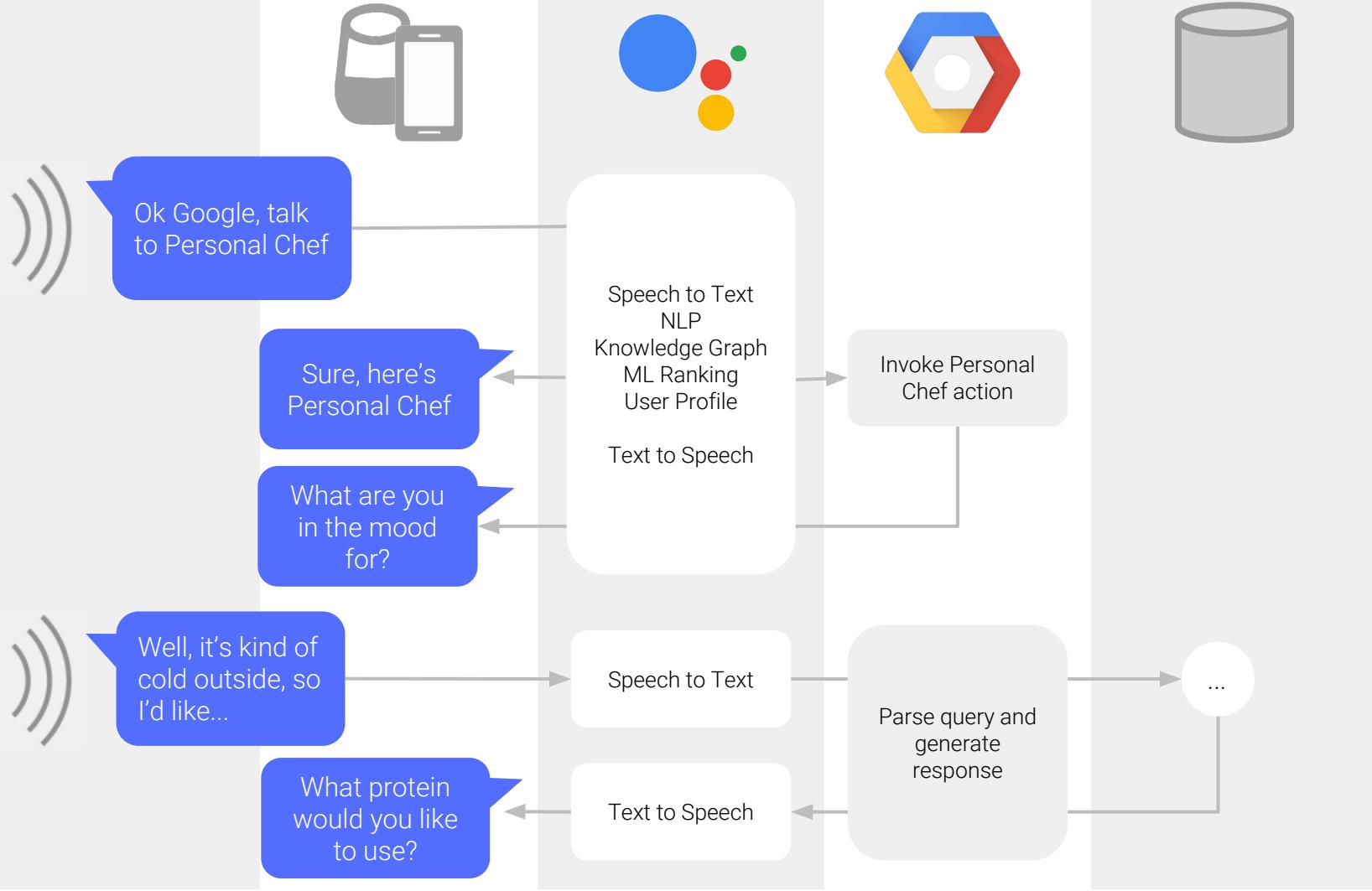
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Introduction to Conversation Actions





Well, it's kind of cold outside, so I'd like something to warm me up, like a hot soup, and I want it fast.



Dialogflow

“

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

@

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



• recipe-recommendation

SAVE



PersonalChef



Intents



Entities



Domains

 Training [beta]

Integrations

Fulfillment

> Docs

> Forum

Contexts

User says

Search in user says...

Add user expression

Chicken sounds good to me.

I'd like a cold dessert and I want it right now.

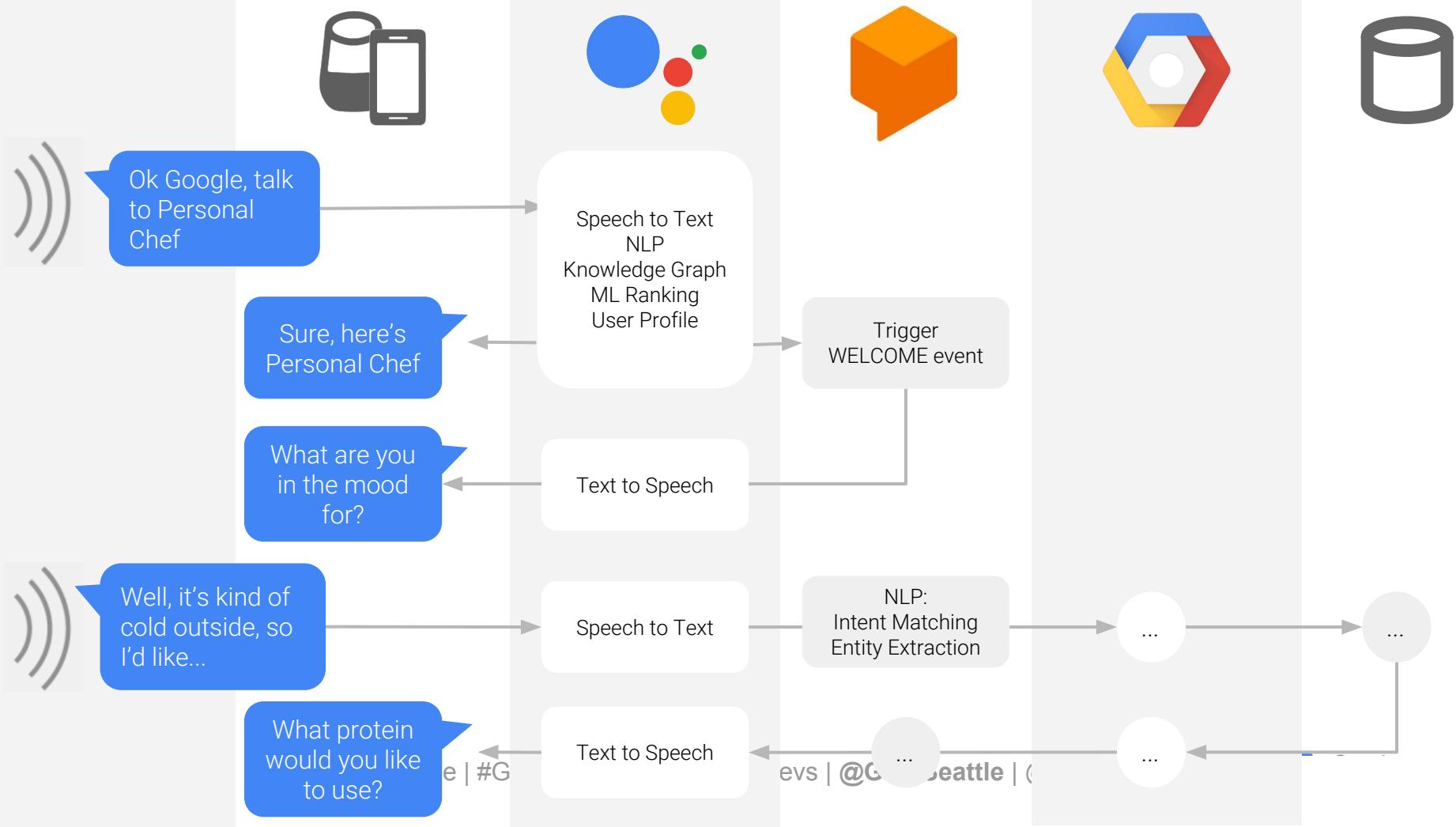
Do you know a recipe for a very quick meal?

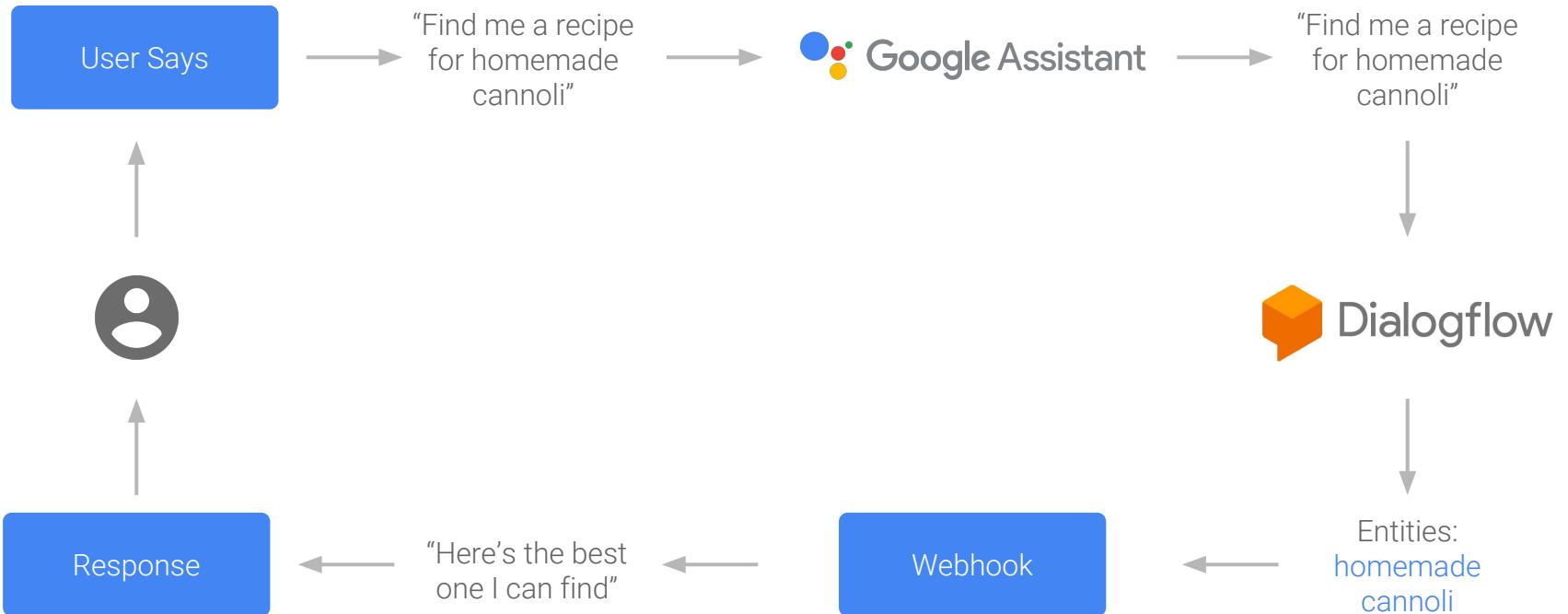
Do you have a recipe for a quick hot soup?

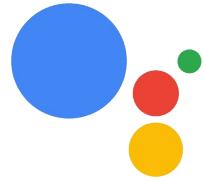
It's really cold outside. What do you suggest to help me warm up?

What can I do with potatoes and lamb?

Events







A Magical Experience

g.co/dev/ActionsDesign

The collage consists of five blue-themed screenshots from the Actions on Google developer documentation:

- Unlocking the Power of Spoken Language**: A section titled "Be Cooperative... Like Your Users".
- Instilling User Confidence Through Confirmations and Acknowledgements**: A section titled "The Conversational UI and Why it Matters".
- Understanding How Conversations Work**: A section titled "The Key to a Better Voice UI".
- Actions on Google**: A screenshot of the "Table of contents" for the Actions on Google documentation.
- Actions on Google**: Another screenshot of the "Table of contents" for the Actions on Google documentation.

Conversation Design Quick Reference

This guide provides quick tips for conversation design across various use cases:

- Pick the right use cases**: Focus on actions that are simple, impulsive, or conversational.
- Create a persona**: Consider what makes them tick and how they interact.
- Pick your voice**: Choose the right tone for your interactions.
- Write sample dialogs**: Practice dialogues to handle various user inputs.
- Principles to design by**: Focus on being natural, giving users control, being kind, and being cooperative.
- Greetings and Goodbyes**: Be natural and friendly.
- Conversational Dialog**: Provide helpful responses and pivot to search.
- Conversation Repair**: Prevent errors by respecting turn-taking.
- Sound natural**: Be natural and understand important conversational turns like "turn-taking", "turn ends", "turn starts", or "initiations".
- Be cooperative**: Avoid interrupting and give users time to think.
- Be prepared to help**: Handle edge cases and provide clear instructions.
- Let users reply information**: Encourage users to respond and provide helpful feedback.
- Feel grateful**: Show appreciation and encourage users to share their thoughts.
- Personas**: Reflect unique brand identity and stay consistent.
- Keep users coming back**: Encourage repeat users and provide incentives.
- Design Checklist**: A summary of best practices.

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Support different surface capabilities

<https://developers.google.com/actions/assistant/surface-capabilities>



AUDIO_OUTPUT

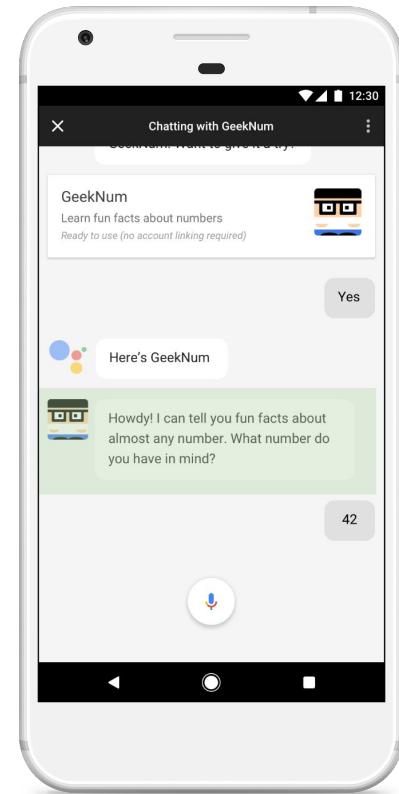


SCREEN_OUTPUT

Support speech and display text

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

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



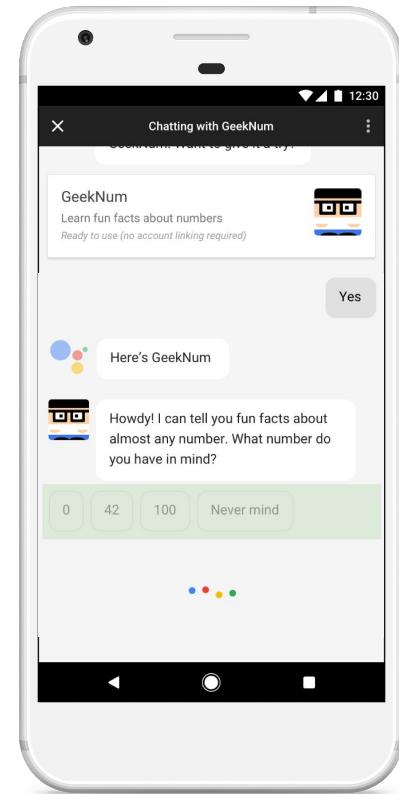
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Guide the user (suggestion chips)

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

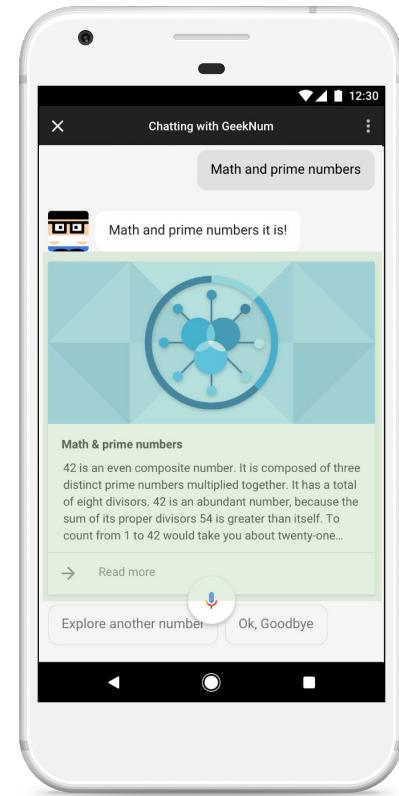
```
conv.ask(new SimpleResponse({  
  speech: 'Howdy! I can tell you fun facts about ' +  
          'almost any number, like 42. What do you have in mind?',  
  text: 'Howdy! I can tell you fun facts about ' +  
        'almost any number. What do you have in mind?'  
});  
  
conv.ask(new Suggestion(['0', '42', '100', 'Never mind']));
```



Display basic cards

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

```
conv.ask('Math and prime numbers it is!')  
conv.ask(new BasicCard({  
  text: '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...',  
  title: 'Math & prime numbers',  
  buttons: new Button({  
    title: 'Read more',  
    url: 'https://example.com',  
  }),  
  image: new Image({  
    url: 'https://example.google.com/42.png',  
    alt: 'Image alternate text',  
  }),  
}));
```

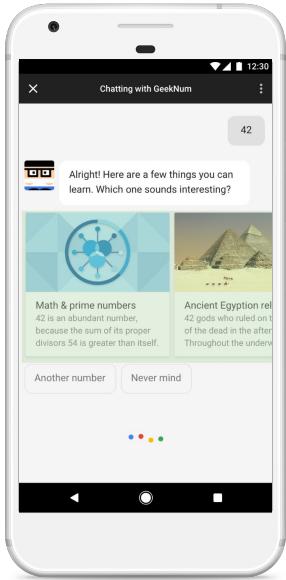


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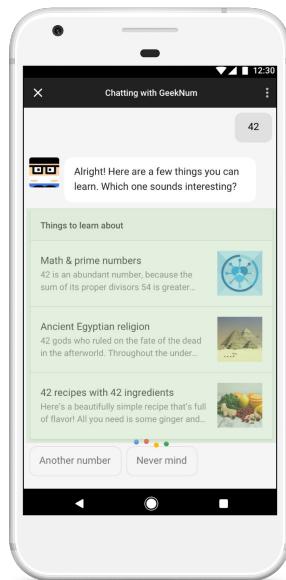
Lists and carousels for selection

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



Used for
easy selection

<10 items



Used for
comparison

<30 items

Ask for information

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

```
conv.ask(new Permission({
  context: 'To find bookstores near you',
  permissions: 'DEVICE_COARSE_LOCATION',
}));
```

*Q: "Recommend me a local
bookstore"*

*A: "To find bookstores near you,
I'll just need to get your zip code
from Google. Is that okay?"*

	Google Home	Mobile Device
NAME	Registered device user's full name	Registered device user's full name
DEVICE_COARSE_LOCATION	Zip code and city	N/A
DEVICE_PRECISE_LOCATION	Coordinates and street address	Coordinates



Link an account to your OAuth2 server

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

Grant type
Authorization code

Client information
Client ID: xxxxx, Authorization url: https://auth

3 Configure your client (optional)

Scopes (?)

email x

name

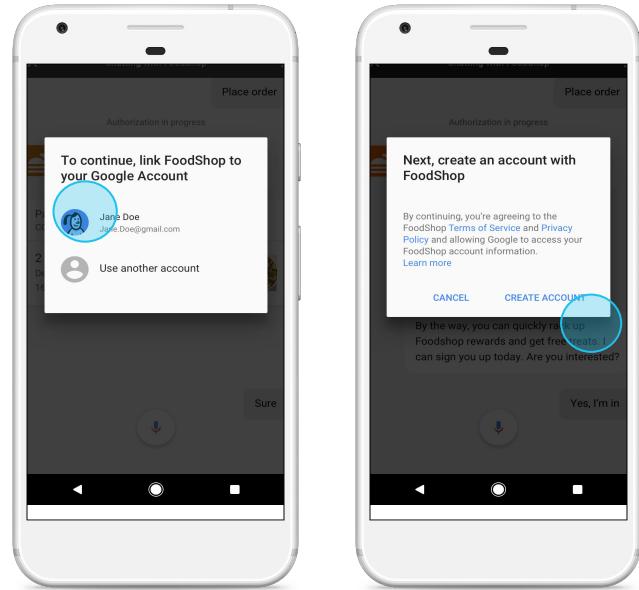
ADD SCOPE

Add quick account linking (?)

BACK **NEXT**

4 Testing instructions

Seamless account linking with Google Sign-in



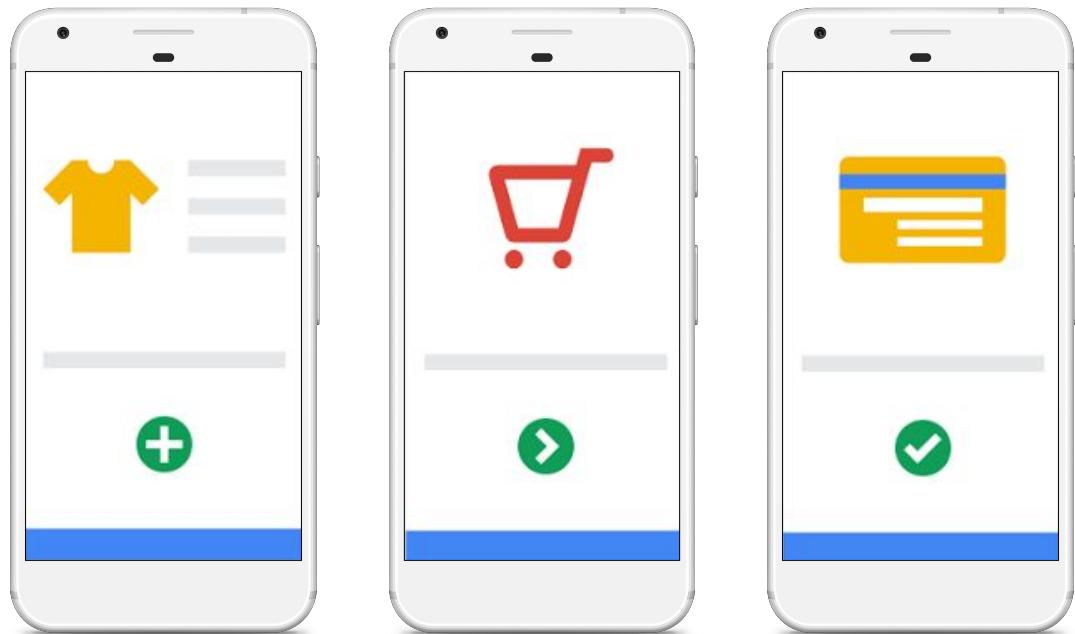
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Transact with the user

<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 status



Smart Home Device Integration

developers.google.com/actions/smarthome/

Turn off all the lights.

What is the temperature
inside?

How many lights are on?



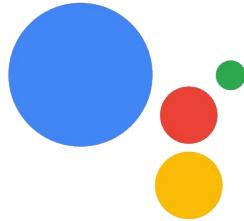
Dim the lights in the living
room a little bit.

What lights are on in the
living room?

Make it warmer.

Assistant SDK for devices

developers.google.com/assistant/sdk



Templates get you up and running

developers.google.com/actions/templates



Personality Quiz

Craft a personality quiz with different traits and outcomes.

[Learn more](#)

BUILD

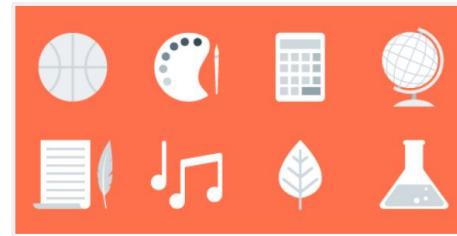


Flash Cards

Study any subject by creating flashcards to quiz yourself and others.

[Learn more](#)

BUILD



Trivia

Create your own game show with different questions, topics, and levels of difficulty.

[Learn more](#)

BUILD

Template features

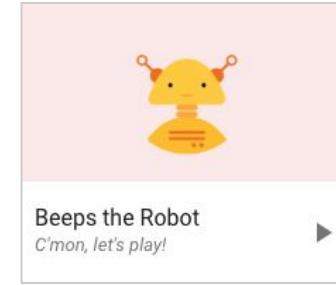
developers.google.com/actions/templates

Create an Action within minutes

Choose a pre-defined personality

Build without code (Google Sheets)

Expand to different languages (Trivia only)



Upload content via Google Sheets

1 Create Sheet 2 Connect Sheet 3 Validate

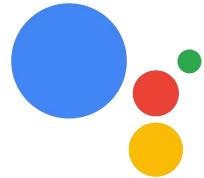
Templates use Google Sheets to add content to your app. You can use the pre-filled sheet below to add your content, or create your own from scratch.

[Make a copy of the pre-filled Google Sheet for editing](#)

Question	A	B	C	D	E	F
1 What is a template?	Correct Answer	Incorrect Answer 1	Incorrect Answer 2			
2 This is a template.	This is a template.	It's an animal	James Garfield			
3 A template is cool.	TRUE	FALSE				

If you're creating your own sheet from scratch, follow the recommended content format so your app works correctly. [Learn more](#)

NEXT



Reach Users

In Dialogue Discovery: Explicit Triggering

Ok Google, let's talk to Personal Chef



Ok Google, ask Personal Chef for a hot soup recipe



Working Examples: Let's speak to Domino's

Ask Dr. Doggy if dogs can eat chocolate



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In Dialogue Discovery: Implicit Triggering

Hey Google, I
want to work out.

Hey Google, what's
the surf report?

Hey Google, I want
to play a game.

Hey Google, tell
me a joke.



Discovery in the Google Assistant Directory

Google Assistant Overview Where you find it What it can do News and resources

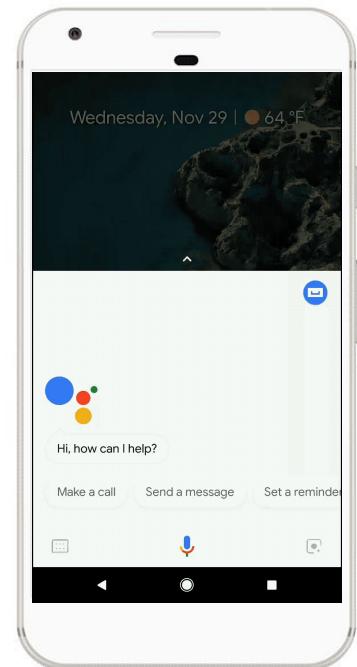
Arts & lifestyle
Business & finance
Education & reference
Food & drink
Games & fun
Health & fitness
Home control
Kids & family
Local
Movies, photos & TV
Music & audio
News & magazines
Productivity
Shopping
Social & communication
Sports

What can your Assistant do?

Search over 1 million things to try

WHAT'S NEW WHAT'S TRENDING

- My Morning Prayer Ask My Morning Prayer
- Unleash the fart ★ 3.7 Talk to Unleash the fart
- test Psychology Talk to test Psychology
- Get Motivated ★ 4.4 Talk to Get Motivated!
- Tough Bollywood Quiz Fun Tricks ★ 4.5



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Link to your Action from anywhere

developers.google.com/actions/console/publishing#linking_to_your_actions

Links

Enable a URL for your Action, so that users can discover and directly engage with it

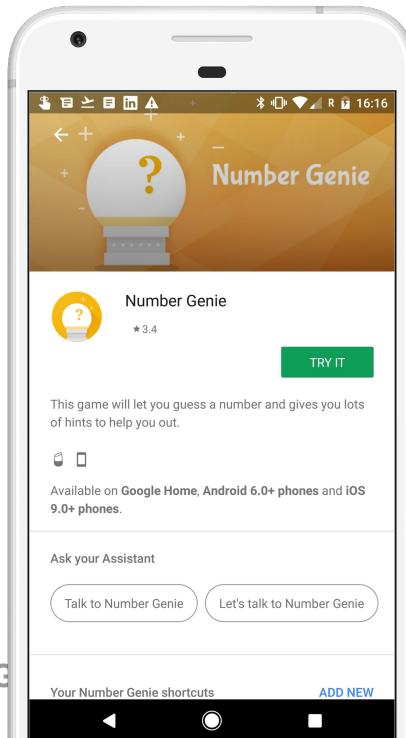
Would you like to enable a URL for this Action?

Link title (Required) [?](#)

purchase concert tickets

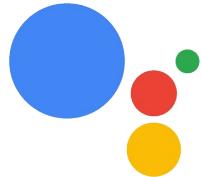
Copy the URL below and reference it

<https://assistant.google.com/services/inv> 



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 Google Assistant
Build Actions For Your Community



Conversational Design Intro



Jessica Dene Earley-Cha | Developer Advocate | Google
@chatasweetie | #AoGDevs



GUI : VUI

What's the difference?



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Top 3 Design Tips



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[1] Create a Persona

A Persona is conveyed through:

- Tone
- Word and phrase choices
- Functional design
- Style
- Technique
- Voice

And it is based on:

- Your user population
- Their needs
- The imagery & qualities associated with your brand





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Cowabunga, dude!

What flavors do you crave?

The bus is approaching your stop now.

Your trip will take 45 minutes.





Buy a pizza

Purchase a ticket

Getting there soon

Arriving soon

Look at your order

Review your schedule

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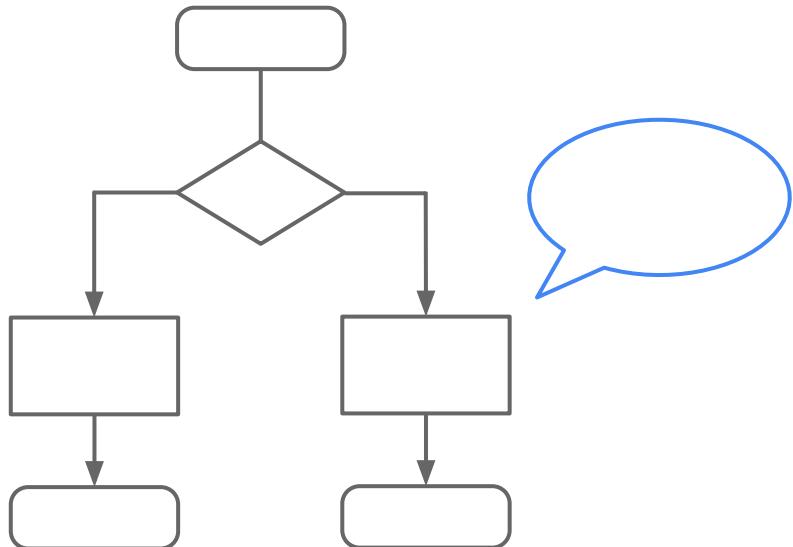
[2] Think outside the box. Literally!



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STRUCTURE

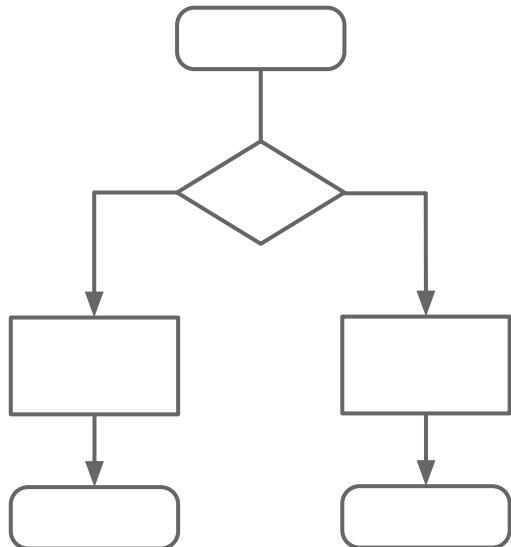


CODE

```
code code code code code  
    code code code code  
        code code "dialog string" code  
        code code code  
code code code code code  
    code "dialog string" code code  
    code code code code code code code  
    code code code  
        code code  
        code  
        code code  
        code  
        code  
        code  
        code code code  
    code "dialog string" code code code  
    code code  
    code code code  
    code code code code code code code  
code code code code code code code
```

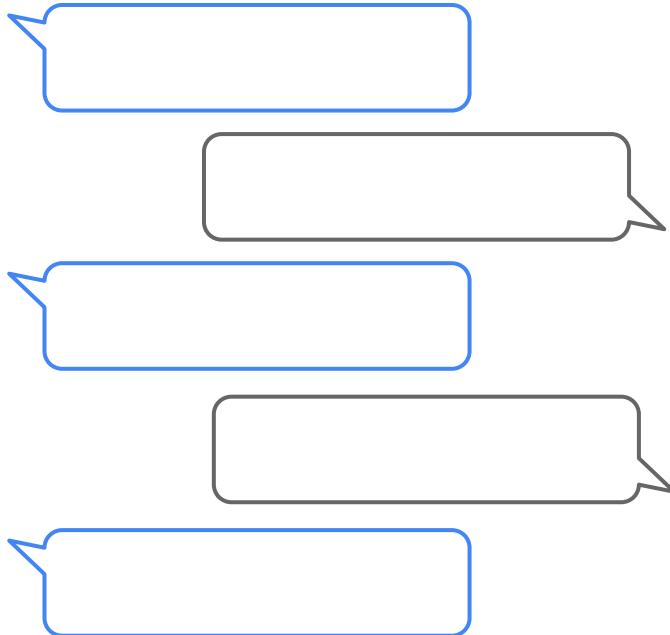
STRUCTURE

CODE

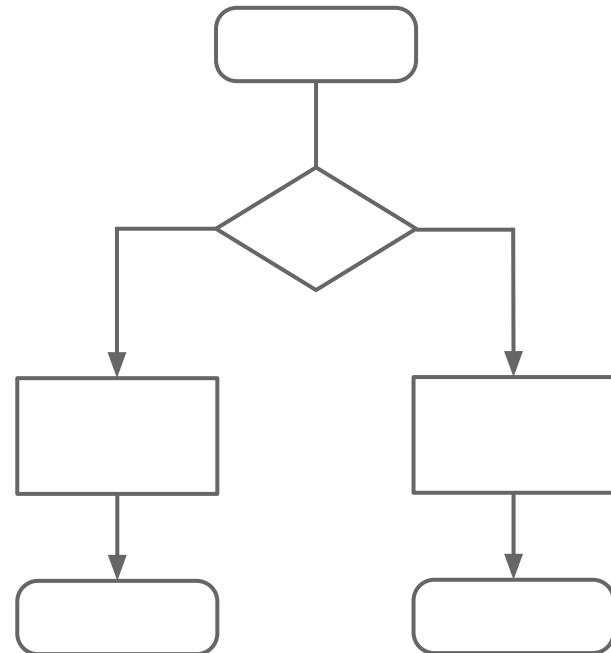


code code code code code
code code code code
code code "dialog string" code
code code code
code code code code
code "dialog string" code code
code code code code code code code
code code code
code code
code code
code
code
code code code
code "dialog string" code code code
code code
code code code
code

DIALOG



STRUCTURE



[3] In a conversation,
there are no “errors”



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real life user conditions



- interrupted
- self correction
- no way out
- background noise
- ask a question back
- hesitate
- talked too long
- too quiet
- cut off too soon
- confused
- valid but not in grammar
- don't speak the language
- none of the choices match
- coughs
- didn't understand
- knows options by other terms
- stutter start

“I don’t understand you.”



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When a so-called “error” occurs in a conversation, it should be treated simply as **a new turn in the dialog**, only with different conditions.



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Sample Dialogs

What to include:

1. Canonical “Happy path”
2. First time experience
3. Tapered experience
(Return user)
4. Repair

Conversation repair for timeouts

USER Ok Google, let me talk to Number Genie.

GOOGLE ASSISTANT Sure, Here's Number Genie.

NUMBER GENIE Welcome to Number Genie! I'm thinking of a number from 0 to 100. What's your first guess?

USER (says nothing)

NUMBER GENIE I didn't hear a number.

USER (silent or muffled)

NUMBER GENIE If you're still there, what's your guess?



Sample Dialogs

What to include:

1. Canonical “Happy path”
2. First time experience
3. Tapered experience
(Return user)
4. Repair

Quit game. User gives up and ends the game

USER Hey Google, let me talk to Number Genie.

GOOGLE ASSISTANT Sure, Here's Number Genie.

NUMBER GENIE Welcome to Number Genie! I'm thinking of a number from 0 to 100. What's your first guess?

USER 21-

NUMBER GENIE It's higher than 21. What's your next guess?

USER I give up. [LOGIC: catch ending intent]

NUMBER GENIE Sure, I'll tell you the number anyway. It was 90.



Give users credit

They know how to talk

Avoid force feeding commands.
(such as “to reply to a message,
say ‘reply’” or “to hear that
again, say ‘repeat’”.)

People hardly ever say
nonsense. They just weren’t
parsed correctly. There was a
misalignment in meaning.

They know what they want

There’s no such thing as a query with
no intent. The user wanted to do
something, even if they didn’t say so.

They want to help

Don’t create dead ends when
something doesn’t work.
If you ask for them to say
something again, they will, but
rarely exactly the same way.

Honor that they’re invested in
outcome of a repair attempt.



Example strategies to have ready

Rapid reprompt

“What was that?”
“Say that again?”

Reframe the question

“What time is this for?” → “Sorry, what time?”
“For when?” → “What time would you like to book this for?”

Ask another way

“If it helps, we can do this one piece at a time.”

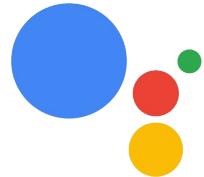
Be ready for questions about the question

“I have your name and email from your account, so now all I need is your phone number.”
“You can give me the day, the time, or both.”

Be proactive

“I could put you down for 6 for now, does that work?”
“Do you want to finish this later?”





VUI Best Practices

VUI Best Practices

Avoid written language and use spoken one

Kick off the conversation: introduce your own brand, provide a list of high level actions available by Action.

Kick off the conversation: if given the context.

Example: Talk to <agent_name> about <subject_one> to avoid menu listening.



VUI Best Practices

Guide user through the conversation:

If you expect users to ask make sure to ask a clear question.
Don't leave mic open without a prompt

Keep our TTS (Text to speech) short and clear:

Analyse if your TTS can be split up in a logical way.
Ask first before giving long TTS descriptions.



VUI Best Practices

Avoid data points unrelated to user query

Follow natural turn taking in the conversation

Use conversational makers:

Adding the “glue” to the conversation and making it more engaging:

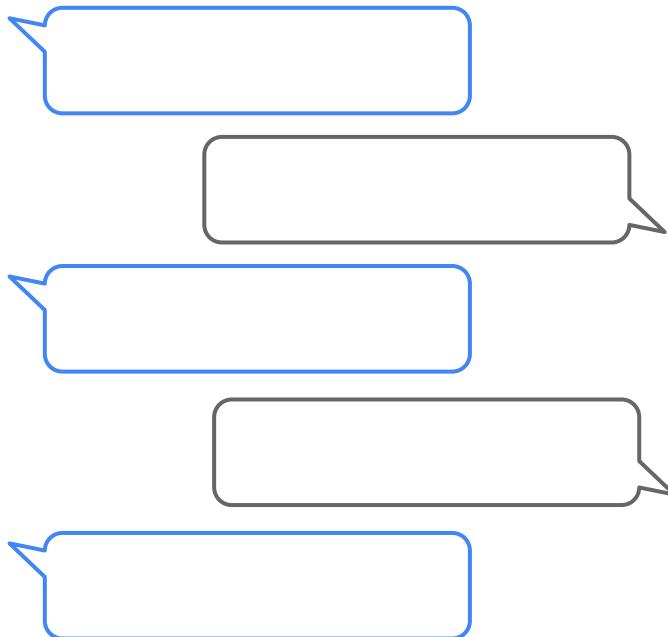
- Timelines - “first”, “halfway there”, “finally”
- Acknowledgements - “thanks”, “got it”, “alright”, “sorry, about that”
- Positive feedback -“good job”, “nice to hear”



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Keep dialog simple



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Too Long

Action: Welcome to Sounds of Relaxation. Are you trying to sleep, meditate, cool down, think, or reflect?

User: Reflect.

Action: Great. We have something for that. Would you like to also include ocean waves, crackling fire, wind blowing, or birds chirping with that?

User: Sure, birds.

Action: Do you want this for 5 minutes, 30 minutes, or an hour?

User: 30 minutes.

Action: Find a nice place to sit or lie down ... are you ready?

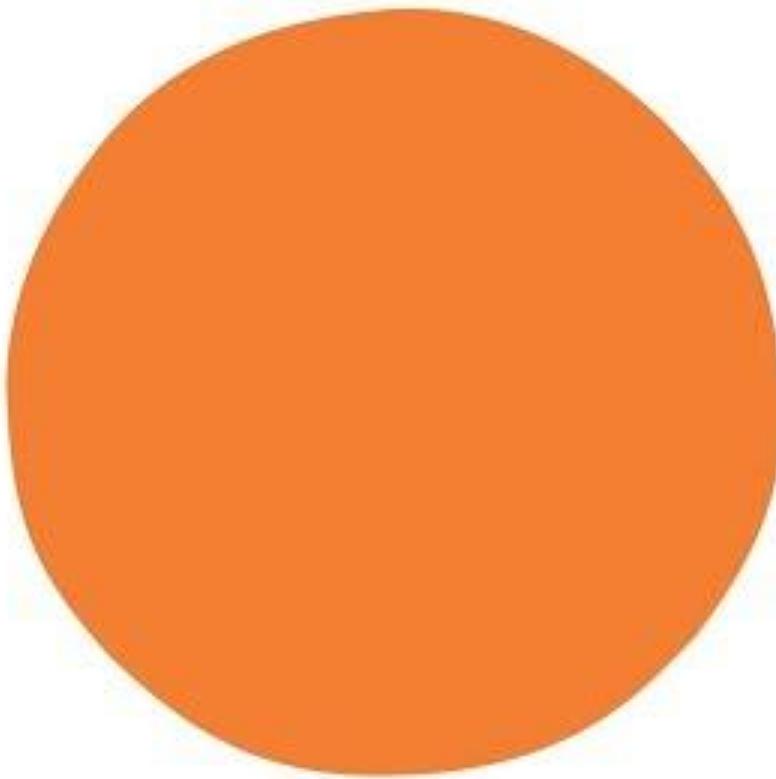
User: Yes.

Action: Ok, Here's your 30-minute relaxation sounds with birds chirping.



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HEADSPACE®

VUI Best Practices

How to recover a conversation?

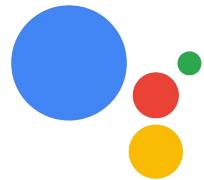
Step 1 Error cannot be eliminated

Step 2 Use broader explanation when re-prompting

Step 3 Don't blame the user

Step 4 Don't repeat prompts in error cases





Enhance your Action

Speech Synthesis Markup Language (SSML)

developers.google.com/actions/reference/ssml

Markup

```
<speak>
  Here are <say-as interpret-as="characters">SSML</say-as> samples.
  I can pause <break time="3s"/>.
  I can play a sound
  <audio src="https://www.example.com/MY_MP3_FILE.mp3">didn't get your MP3 audio file
  I can speak in cardinals. Your number is <say-as interpret-as="cardinal">10</say-as>
  Or I can speak in ordinals. You are <say-as interpret-as="ordinal">10</say-as> in 1
  Or I can even speak in digits. The digits for ten are <say-as interpret-as="charact
  I can also substitute phrases, like the <sub alias="World Wide Web Consortium">W3C<
  Finally, I can speak a paragraph with two sentences.
  <p><s>This is sentence one.</s><s>This is sentence two.</s></p>
</speak>
```



Audio



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Sound Library

developers.google.com/actions/tools/sound-library/

Select	Sound	Category
	<input type="button" value=""/>	<input type="button" value="all"/>
<input type="checkbox"/>	alarm clock	alarms
<input type="checkbox"/>	assorted computer sounds	alarms
<input type="checkbox"/>	beep short	alarms
<input type="checkbox"/>	bugle tune	alarms
<input type="checkbox"/>	digital watch alarm long	alarms
<input type="checkbox"/>	dinner bell triangle	alarms
<input type="checkbox"/>	dosimeter alarm	alarms



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Almost there...
COFFEE BREAK

Actions for Your Community

- **Be creative!** It can span from a personal interest to a local or regional community - even a business one
- If you already have ideas, share it with others
- If you don't have an idea yet, get inspired or think of **joining one of the proposed ideas**



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COFFEE BREAK
until 11.25 am

Detailed Agenda

10:00 am Welcome

10:10 am Building Conversational Experiences

10:40 am Conversational Design

11:10 am Coffee Break

11:25 am Codelab: Build Actions for the Google Assistant (Level 1)

12:00 pm Lunch

1:00 pm Creating your own Actions for the Google Assistant

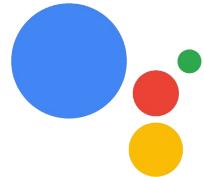
3:30 pm Demo your Actions

4:00 pm Wrap Up



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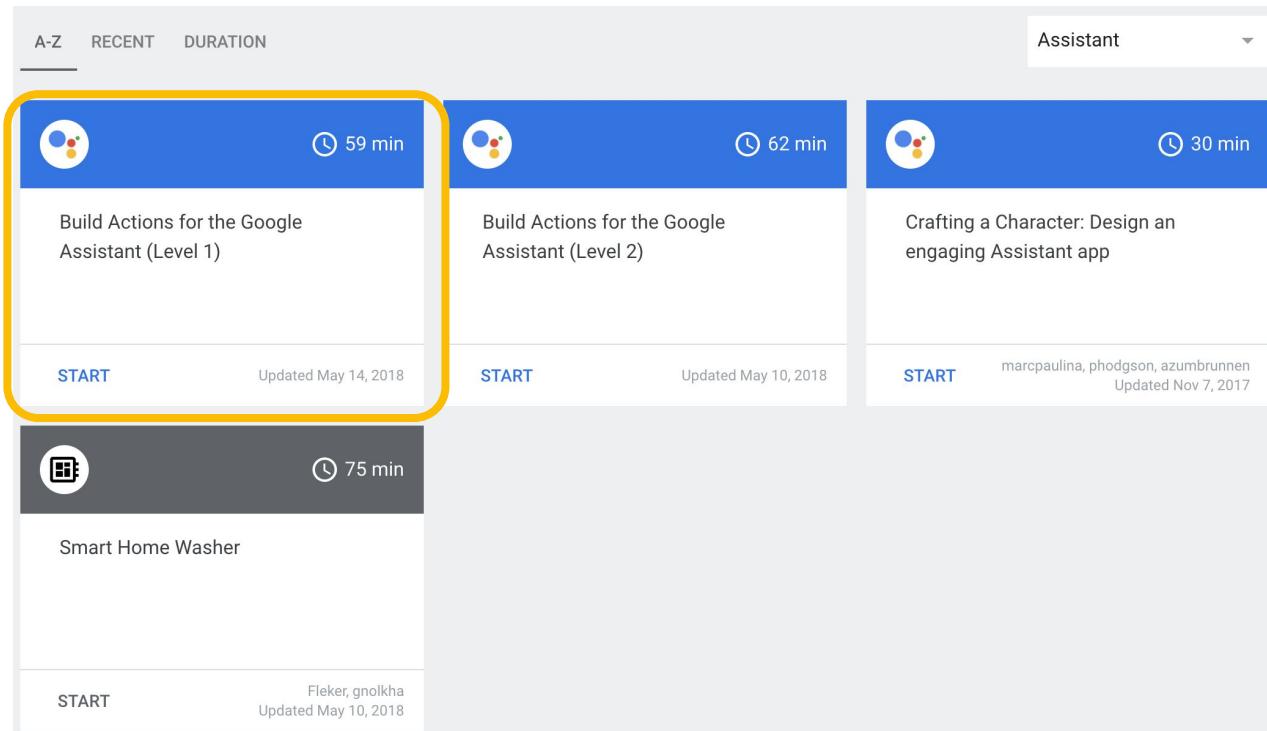


Codelab: Build Actions (Level 1)



Jessica Dene Earley-Cha | Developer Advocate | Google
@chatasweetie | #AoGDevs

codelabs.developers.google.com → Assistant



A-Z RECENT DURATION

Assistant

 59 min	 62 min	 30 min
Build Actions for the Google Assistant (Level 1) START Updated May 14, 2018	Build Actions for the Google Assistant (Level 2) START Updated May 10, 2018	Crafting a Character: Design an engaging Assistant app START marcpaulina, phodgson, azumbrunnen Updated Nov 7, 2017
 75 min		
Smart Home Washer START Fleker, gnolkha Updated May 10, 2018		



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LUNCH
until 1 pm

Detailed Agenda

10:00 am Welcome

10:10 am Building Conversational Experiences

10:40 am Conversational Design

11:10 am Coffee Break

11:25 am Codelab: Build Actions for the Google Assistant (Level 1)

12:00 pm Lunch

1:00 pm Creating your own Actions for the Google Assistant

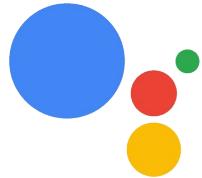
3:30 pm Demo your Actions

4:00 pm Wrap Up



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Build Actions for your Community Create your Action!

Directory

Assistant app name
Bitcoiner info  

Type your Assistant app's name. This name will be displayed to users in the [Assistant Directory](#), and will be how users invoke your app textually

Pronunciation  

Use the microphone and speak your Assistant app's name. This helps us understand the pronunciation, allowing us to invoke your app when users say its name.

Details

Assistant app introduction
You can use this app to gain info on bitcoin

Summarize what your app can do by completing the sentence in the above field. This phrase will be used by the Assistant to introduce your app to users.

Assistant app voice
Female 2 

Match user's language setting 

Short description
Bitcoiner info give you current information on the price and total amounts of bit

A short, one line description of your app

Full description
Bitcoiner info give you current information on the price and total amounts of bitcoins in the world. In the near future, we will add more interesting aspects like: block size, time to calculate etc'.

A complete description of your app

Sample invocations 

Ask Bitcoiner info about talk to bitcoin info 
Talk to Bitcoiner info about bitcoin info 
Ask Bitcoiner info to bitcoin info 
Talk to Bitcoiner info about talk to bitcoin info 
More suggestions 

Ok Google, Talk to Bitcoiner info 

Enter up to 5 sample invocations that invoke your Assistant app. These will be shown to users so that they understand how to get started. [Learn more](#) 

ADD INVOCATION

Images

Specify icons for your app. For the best quality, use properly scaled images in PNG format with transparent backgrounds.

Large banner image (1920 x 1080) 



Small square logo (192 x 192) 



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 Google Assistant
Build Actions For Your Community

Privacy Policy

Privacy and consent

This information will be displayed publicly

Link to Privacy Policy

<https://sites.google.com/view/bitcoin-info/home>

Need help making a privacy policy? [Learn more](#) ↗



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Naming

- ✗ ~~One Word Names~~
- ✗ ~~Common Phrases~~
- ✗ ~~Generic Words~~
- ✗ ~~Reserved words:~~

OK, Google, Volume up, Game, Bot, Action, App



Build your team



Start creating your Action - get recognized

Create either a specific project ID or share your individual project ID via Google Forms to have your Action recognized as part of the event series::

1. Share your Project ID via bit.ly/buildactions-projects

OR

1. Go to the console: bit.ly/buildactions-console
2. Start a new project beginning with **BAFYC** followed by the planned Action name



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Add project X

Project name

BAFYC your project name

Country/region ②

United States ▼

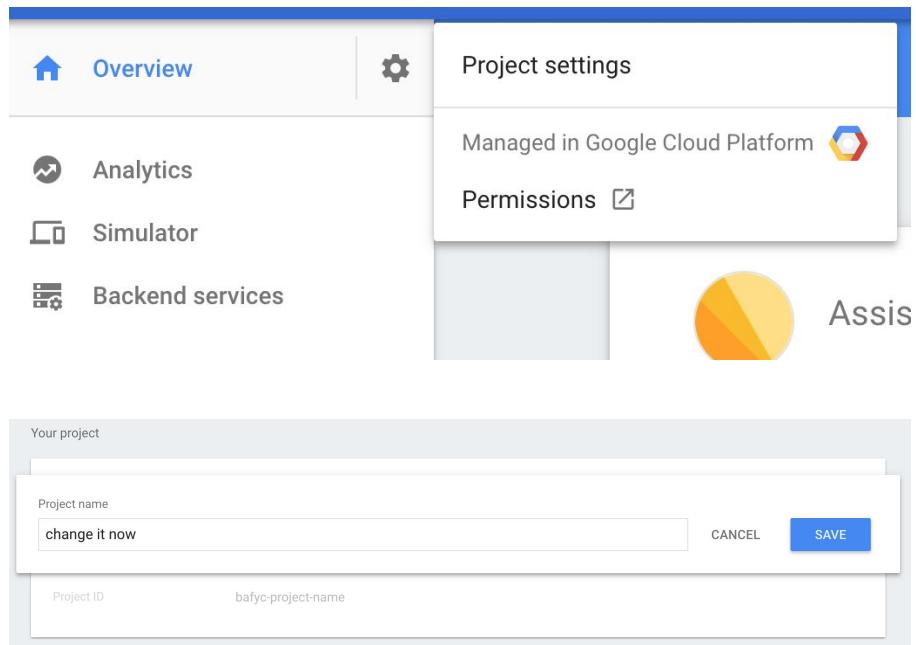
CANCEL CREATE PROJECT

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)
3. Share feedback and share additional information for website listing
bit.ly/buildactions-feedback



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Resources to get started and support

Console

bit.ly/buildactions-console

Build with Templates

developers.google.com/actions/templates

Build with Dialogflow

developers.google.com/actions/dialogflow

Build with Actions SDK

developers.google.com/actions/sdk

Documentation

developers.google.com/actions

Codelabs

codelabs.developers.google.com

Write and Deploy Functions

bit.ly/firebase-get-started

Deploy your fulfillment webhook using

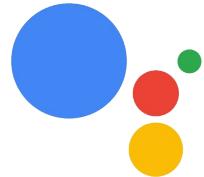
Cloud Functions for Firebase

bit.ly/aog-cloud-functions



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Showcase your Actions

Showcase your Actions

1. Get on Stage for a 2-3 Minute Presentation
2. Demo your Actions
3. Share what community benefits from your Action
4. Share Challenges you faced and how you did overcome them



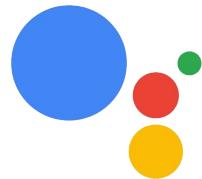
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Google Assistant

Build Actions For Your Community



What's next?

Wait... there's more

1. Check out the recording of one webinar with the Assistant team for all
bit.ly/buildactions-webinarvideo
2. Your Actions listed on the Google Assistant event series page:
developers.google.com/events/buildactions
3. Be part of the Actions on Google Community with publishing your Action
developers.google.com/actions/community (and get a shirt + cloud credits for a year)



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Actions on Google Community Program

developers.google.com/actions/community

You are automatically invited to the program with publishing your first Action and will receive a

Cool T Shirt + \$200 Cloud Credits per month for a year

The Assistant team also recognizes milestones:



Traction



Engagements



Globalization



Thank you!

Additional Resources

G+ Developer community: g.co/actionsdev

Videos: bit.ly/aog-tips

Dialogflow: dialogflow.com/google-assistant

Twitter: actionsongoogle@

Our mailing list: assistant.google.com/developer



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Thanks to speaker & organizer

Many thanks to our host **Jessica D. Earley-Cha!**

Thanks organizers and volunteers:

- Margaret Maynard-Reid
- Clive Boulton
- Yenchi Lin
- Balaji B T.R.



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Upcoming GDG Seattle events

- August - Machine Learning Study Jam
- September - Women Techmakers Lightning Talks
- October - DevFest Seattle



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