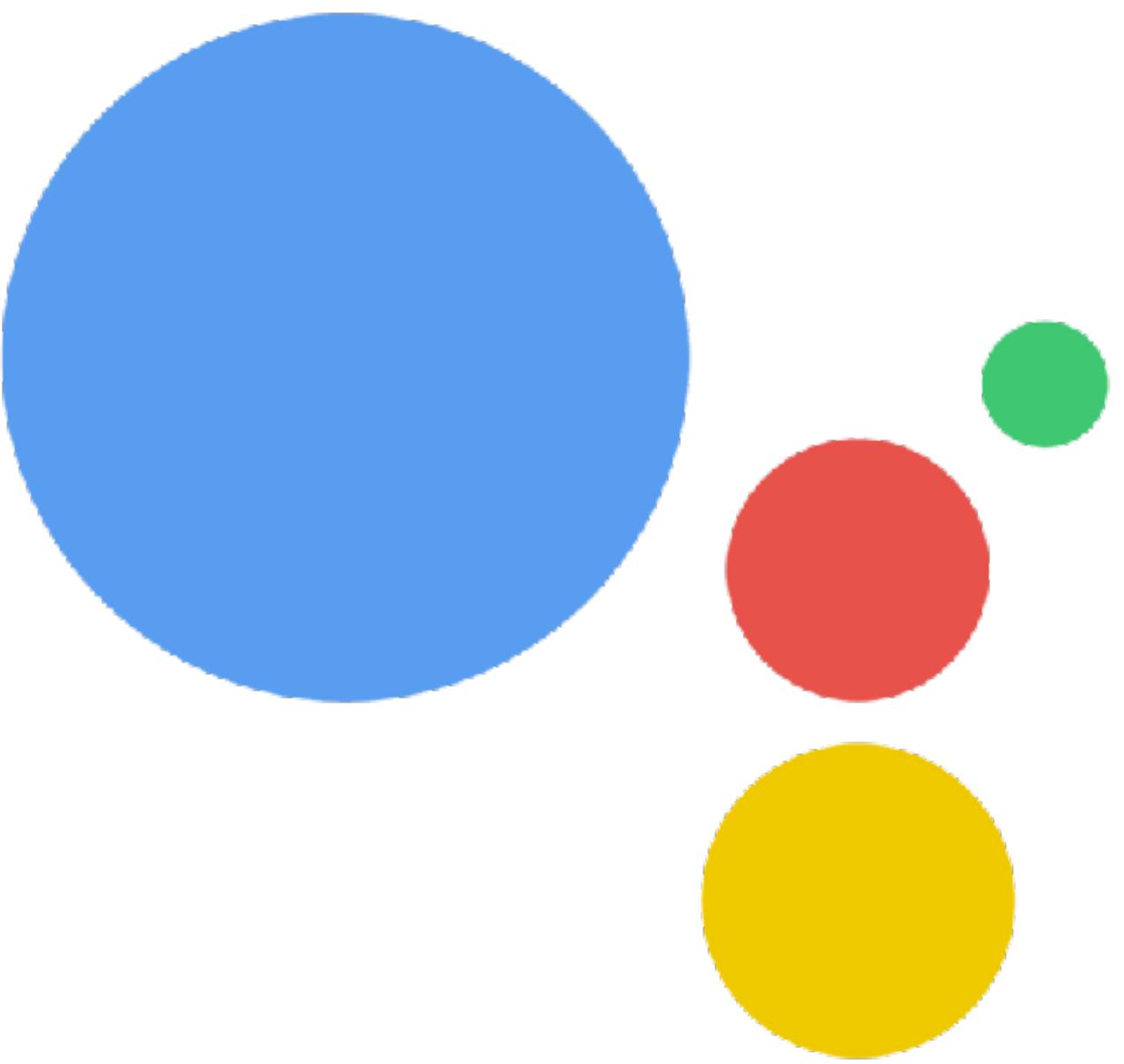
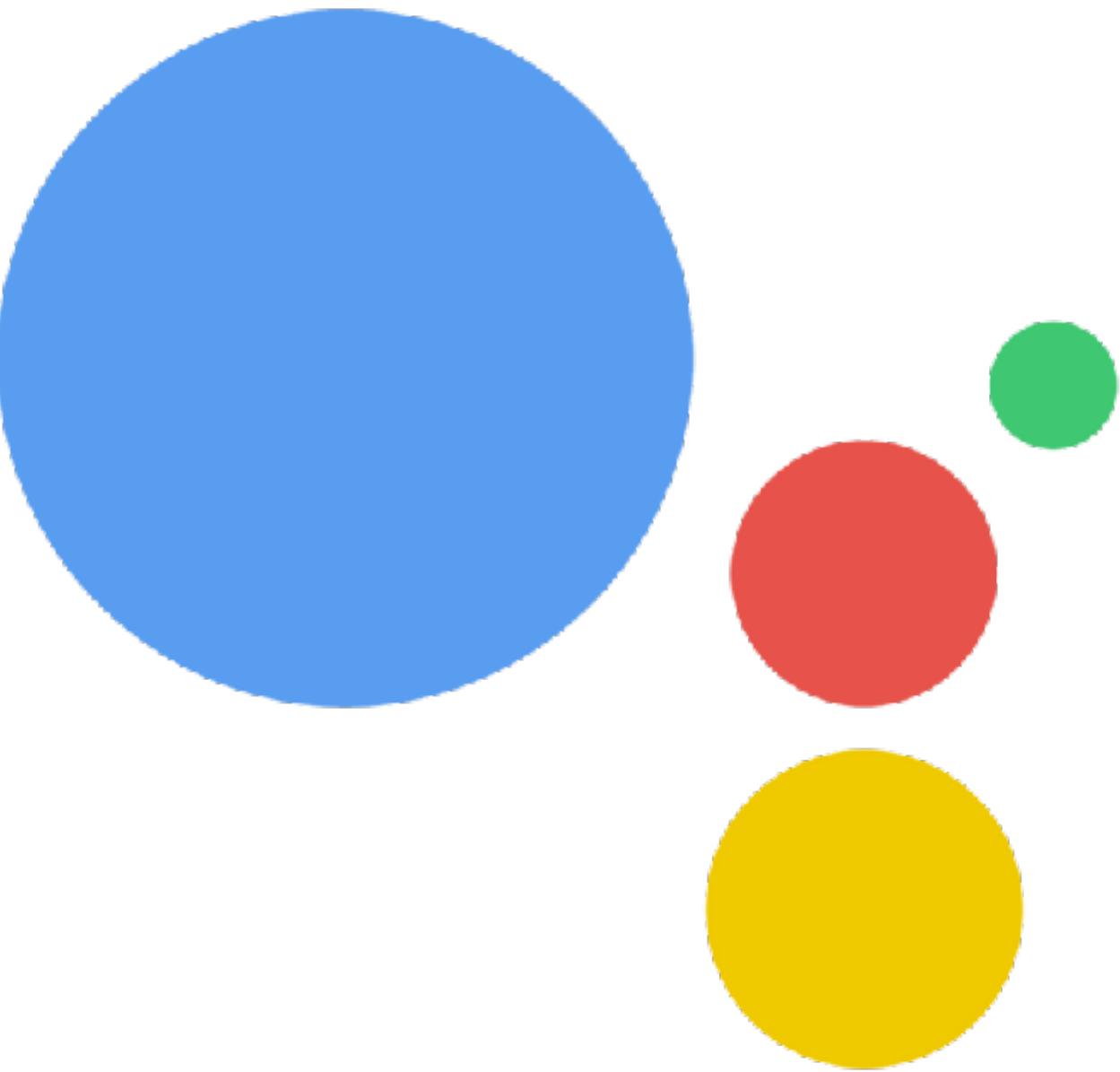


android
things

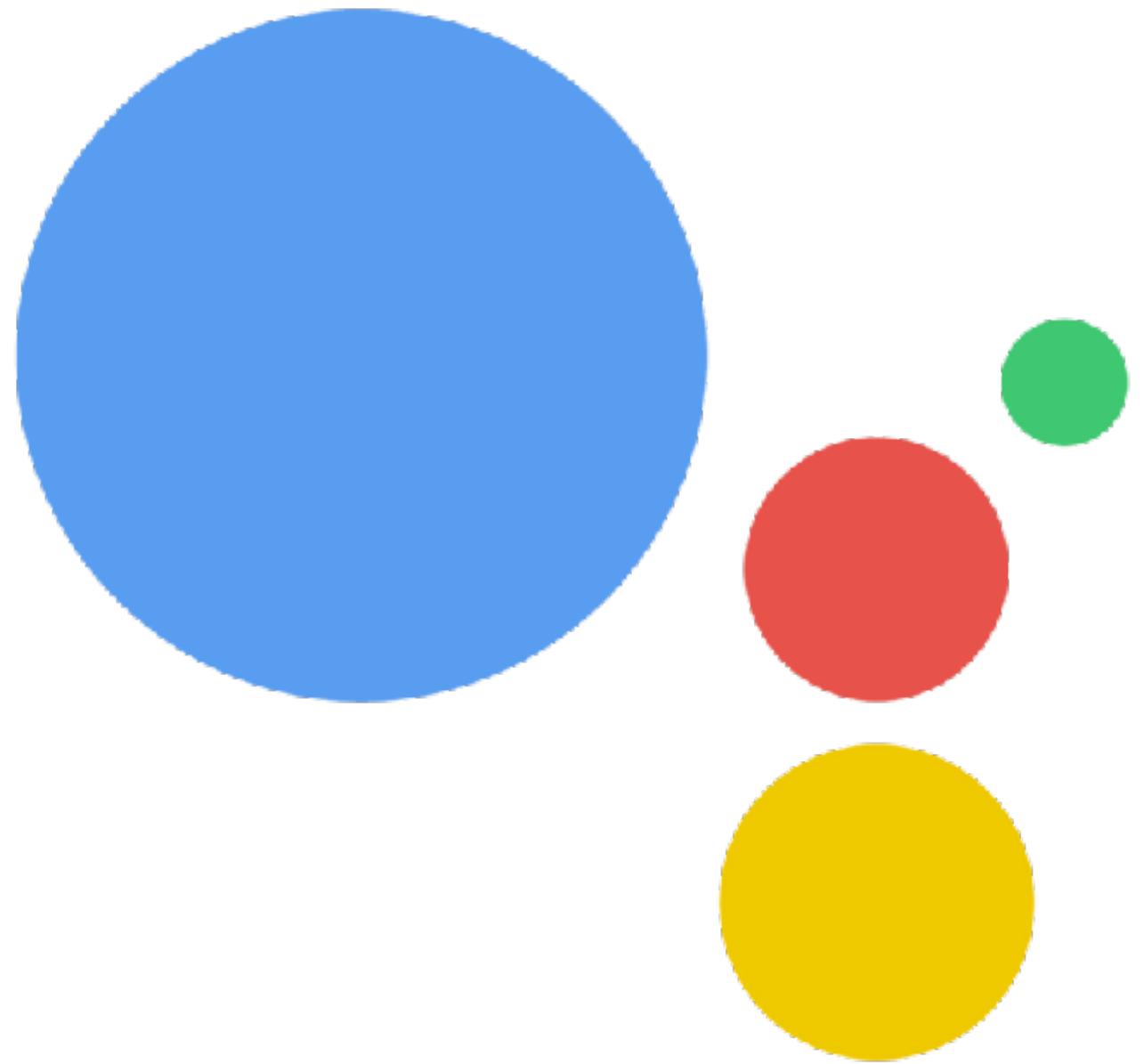


android
things



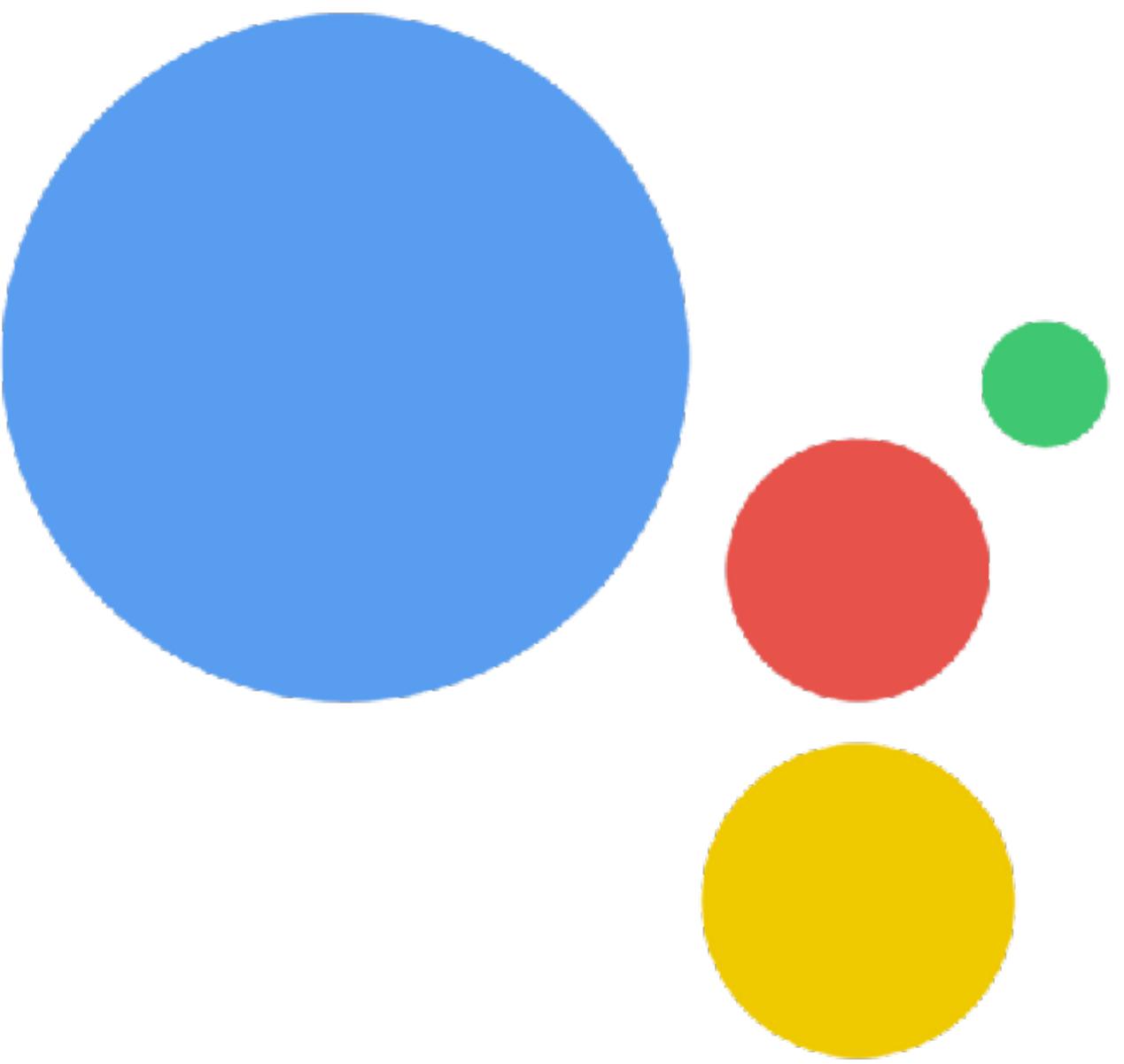
@luisleao

android
things



github.com/luisleao/candy_assistant

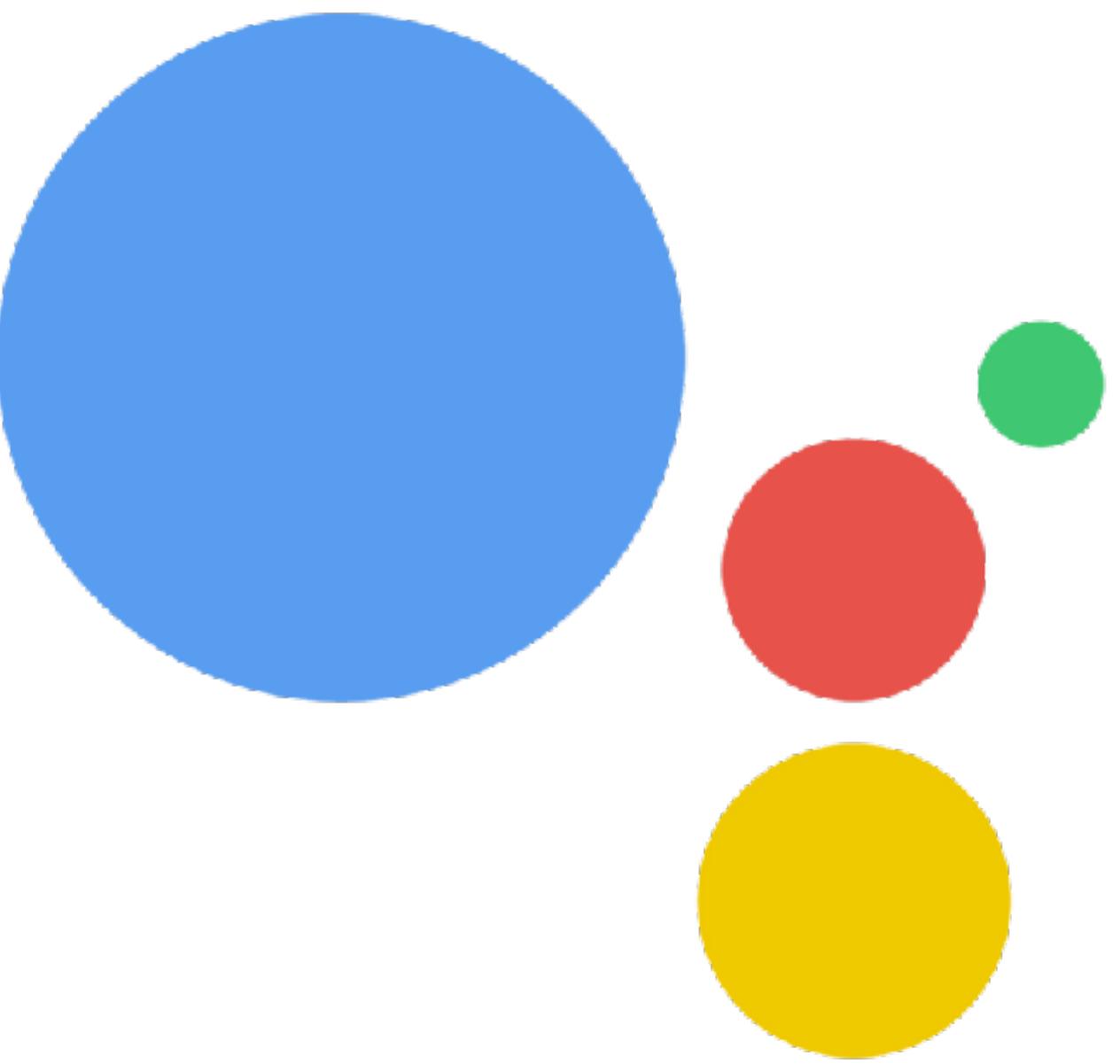
android
things



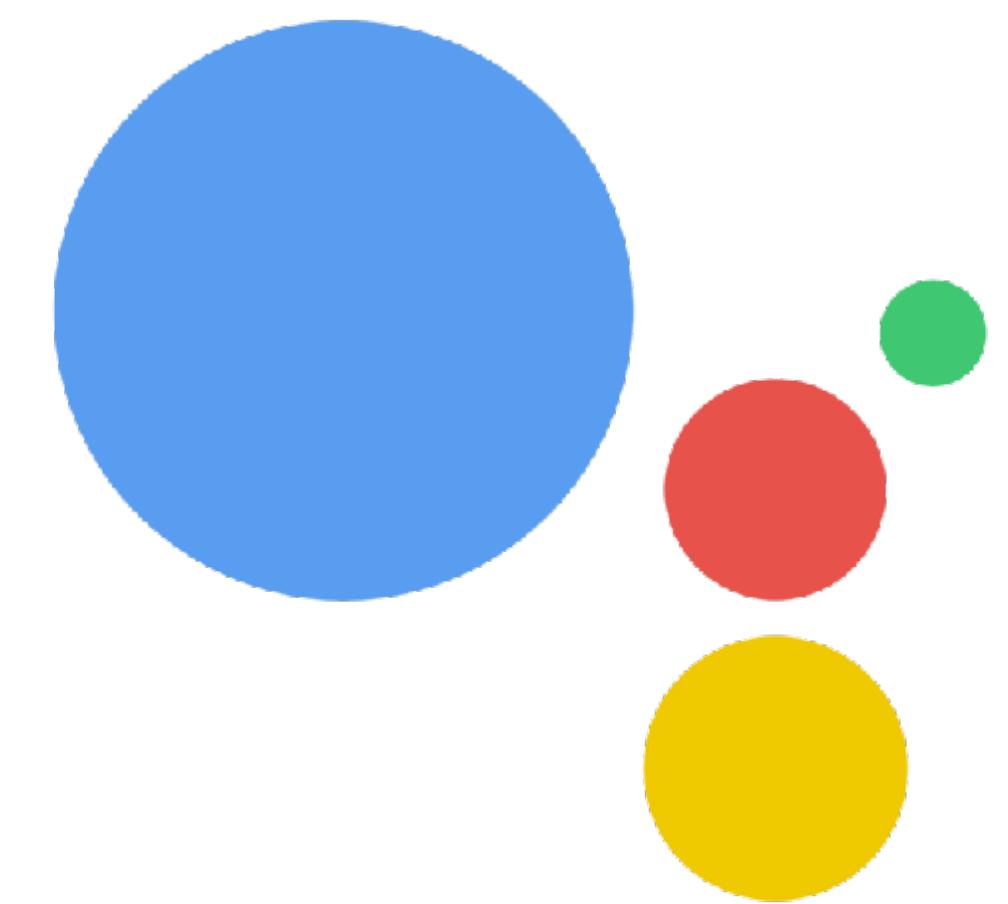


DRACARYS

android
things

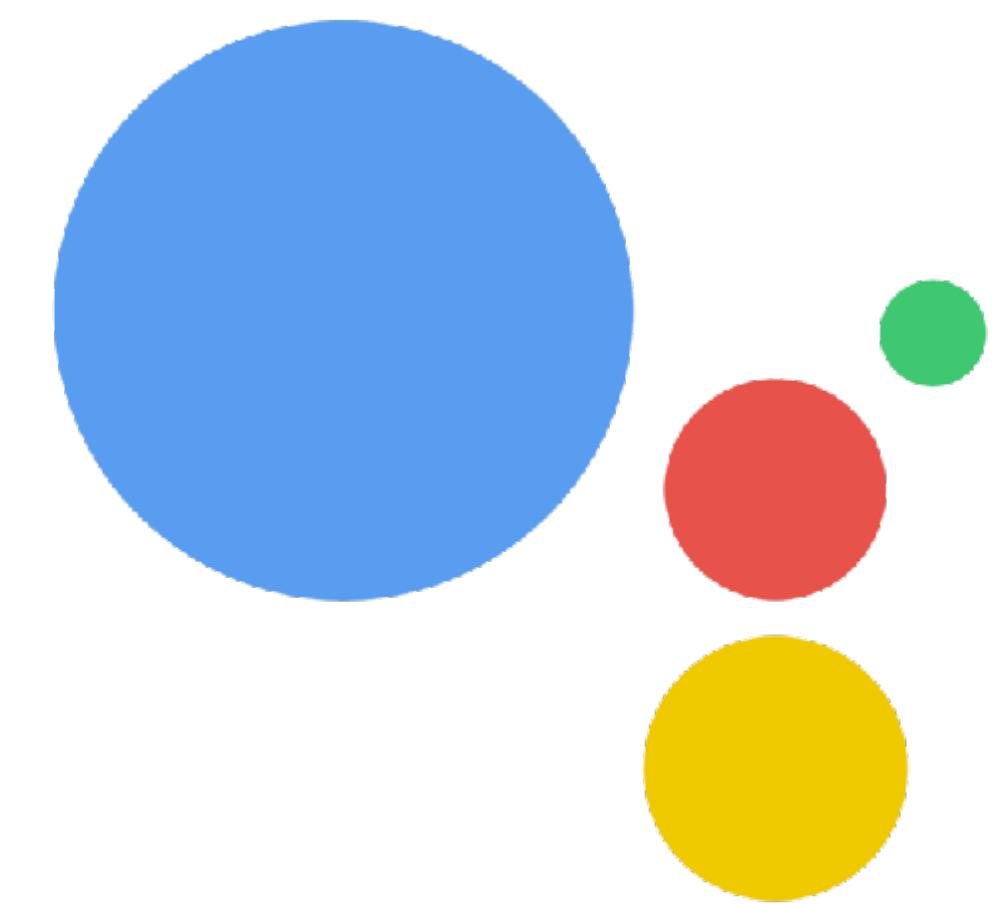


android
things





android
things

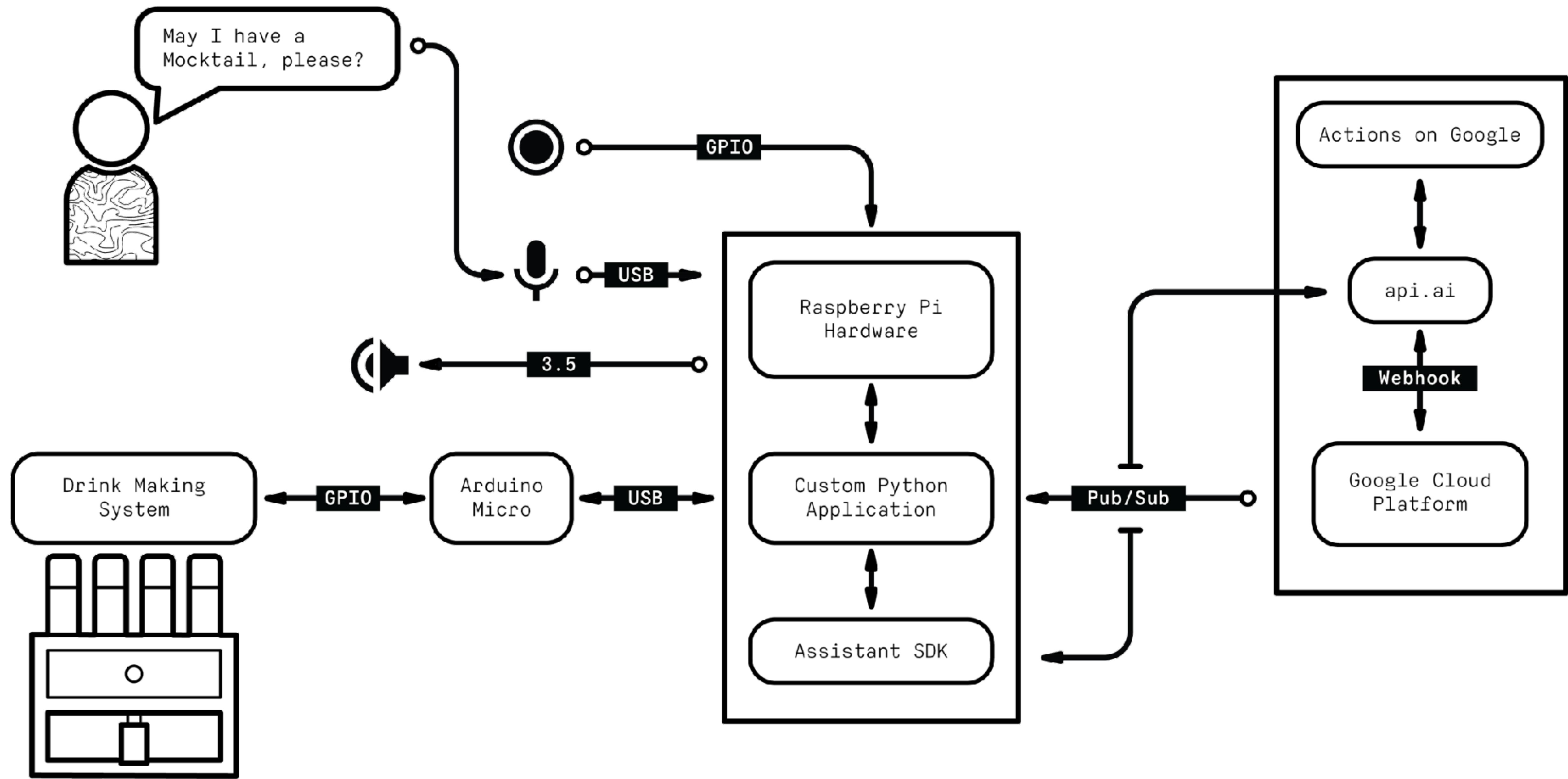


Mocktail Mixer

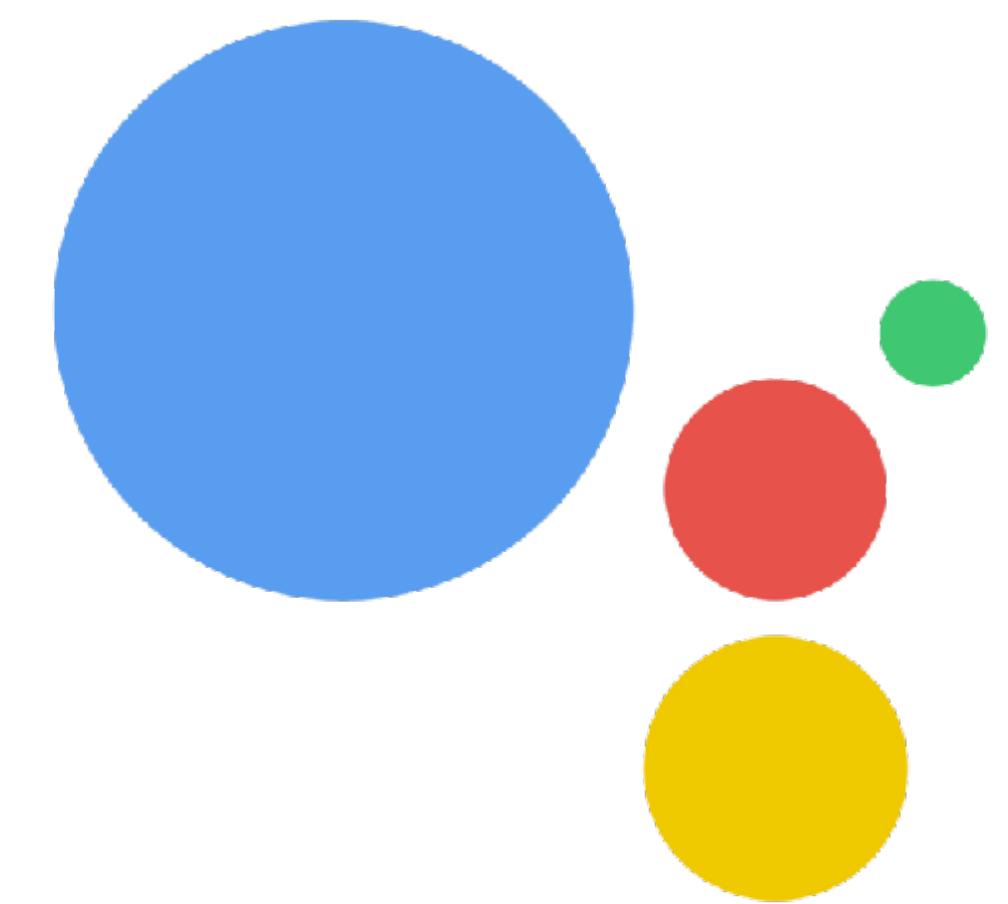
o assistente de #bonsdrink



github.com/deeplocal/mocktailsmixer

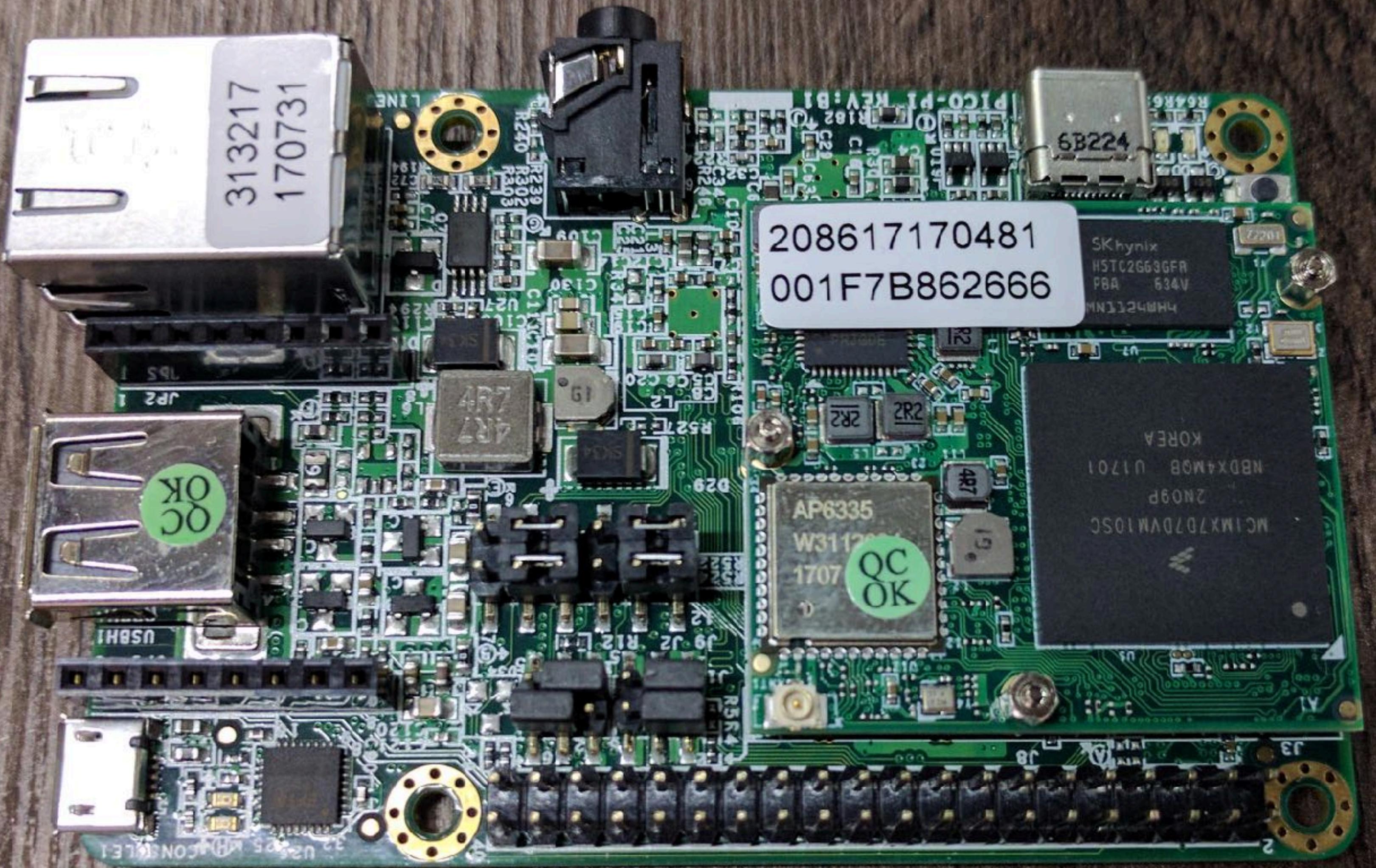


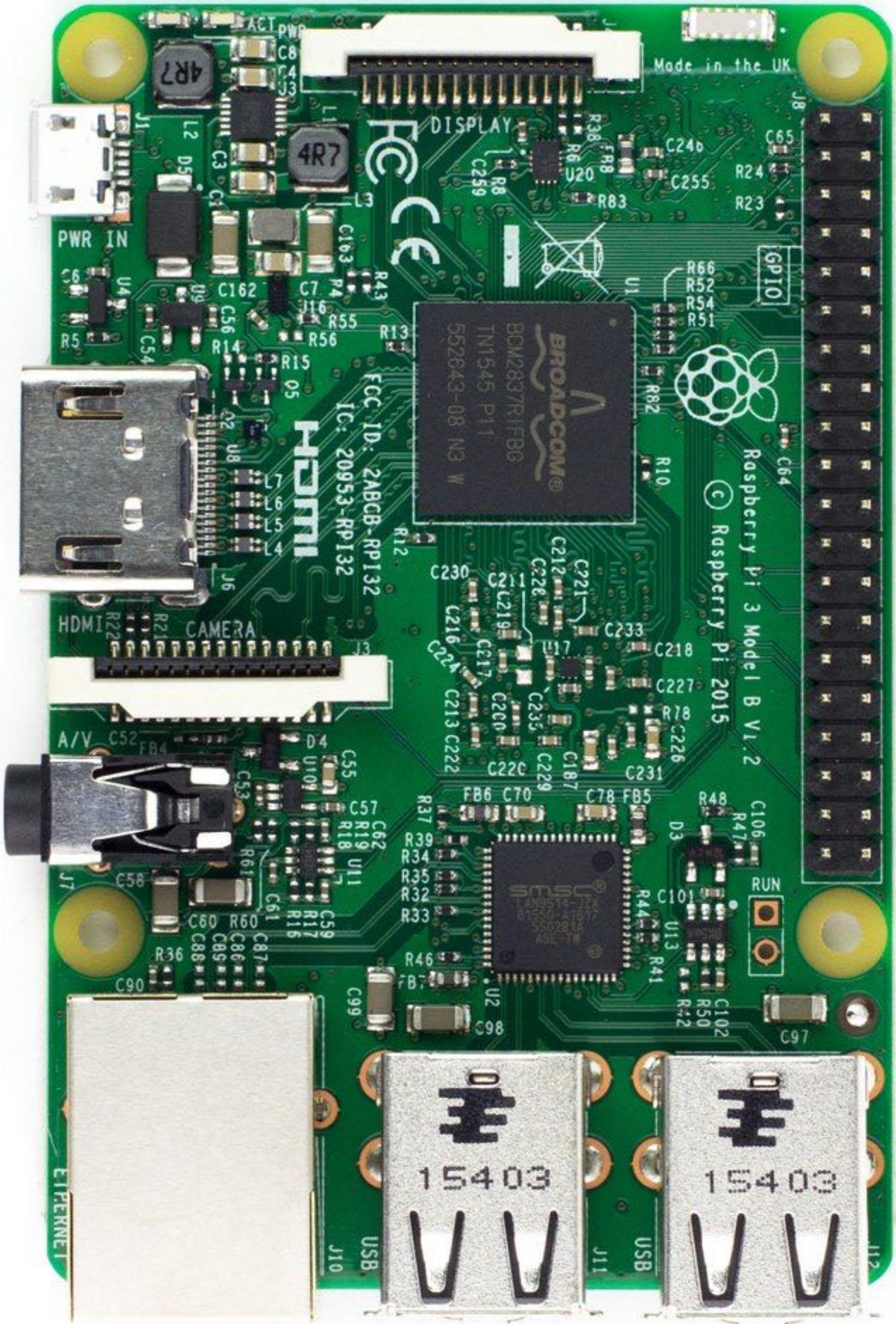
android
things



android
things

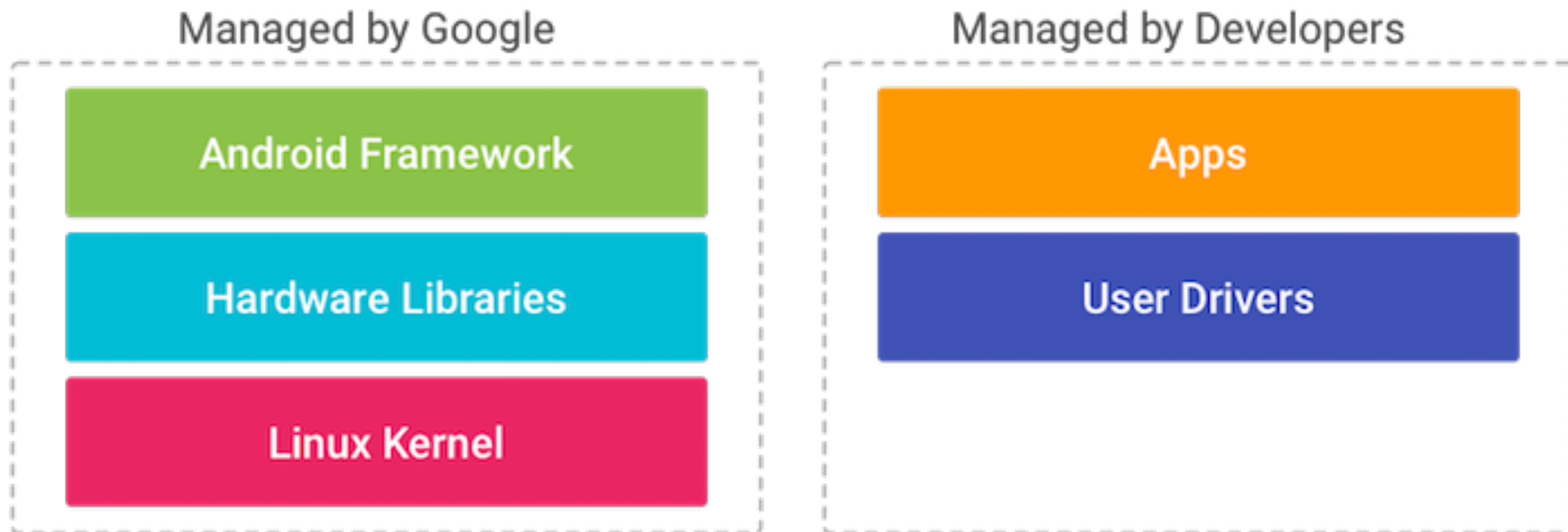
developer.android.com/things





J8			
3.3V	1	Orange	2
BCM2	3	Cyan	4
BCM3	5	Cyan	6
BCM4	7	Green	8
Ground	9	Black	10
BCM17	11	Green	12
BCM27	13	Green	14
BCM22	15	Green	16
3.3V	17	Orange	18
BCM10	19	Purple	20
BCM9	21	Purple	22
BCM11	23	Purple	24
Ground	25	Black	26
	27	White	28
BCM5	29	Green	30
BCM6	31	Green	32
BCM13	33	Brown	34
BCM19	35	Blue	36
BCM26	37	Green	38
Ground	39	Black	40

User-space Drivers



```
<application
    android:label="@string/app_name">
    <activity android:name=".HomeActivity">
        <!-- Launch activity as default from Android Studio -->
        <intent-filter>
            <action android:name="android.intent.action.MAIN"/>
            <category android:name="android.intent.category.LAUNCHER"/>
        </intent-filter>

        <!-- Launch activity automatically on boot -->
        <intent-filter>
            <action android:name="android.intent.action.MAIN"/>
            <category android:name="android.intent.category.IOT_LAUNCHER"/>
            <category android:name="android.intent.category.DEFAULT"/>
        </intent-filter>
    </activity>
</application>
```

Permissões

Declare no arquivo manifest. Permissões são definidas no momento da instalação. Permissões complexas são liberadas no próximo reboot do dispositivo e não precisam de “run time checks”.

Notificações

Devido a possibilidade de inexistência da UI, notificações não são suportadas. Evite chamar APIs do NotificationManager nos seus apps.

Supported APIs	Unavailable APIs
Awareness	AdMob
Cast	Android Pay
Google Analytics for Firebase	Drive
Firebase Cloud Messaging (FCM)	Firebase App Indexing
Firebase Crash Reporting	Firebase Authentication
Firebase Realtime Database	Firebase Dynamic Links
Firebase Remote Config	Firebase Invites
Firebase Storage	Firebase Notifications
Fit	Play Games
Instance ID	Sign-In
Location	
Maps	
Nearby	
Places	
Mobile Vision	
SafetyNet	

Observação: Como regra geral, APIs que precisam de input do usuário ou credenciais de autenticação não são disponíveis.

IoT Console

Notificação de atualizações



DP5.1 is available

A new version of Android Things is
available.

GOT IT

VIEW RELEASE NOTES



IoT Console

Download da imagem

The screenshot shows the Android Things Console interface. At the top, there's a navigation bar with a back arrow, a refresh icon, and a URL bar indicating a secure connection to <https://partner.android.com/things/console/u/0/#/h1gbqs/configure>. The top right corner shows a user profile for 'Luis'.

The main header says 'androidthings' with a three-dot menu icon to its left. Below it, the title 'CandyQuiz' is displayed with a back arrow.

The navigation bar at the top has three tabs: 'PRODUCT SETTINGS' (which is highlighted in green), 'FACTORY IMAGES', and 'OTA UPDATES'.

The main content area is titled 'Product settings'. It contains the following fields:

- Product name:** CandyQuiz
- Product description:** CandyQuiz game
- SOM type:** Raspberry Pi 3
- CREATE STARTER BUILD** button
- OEM partition size:** 32 MB
- Include these Google services:** A checked checkbox next to 'Google Play Services'

A 'SAVE CHANGES' button is located at the bottom right of the settings panel.

At the very bottom of the page, there are links for 'Terms | Privacy' and '© 2017 Google'.

IoT Console

Download da imagem

Android Things Console Luis

Secure | https://partner.android.com/things/console/u/0/#/h1gbqs/build

≡ androidthings

CandyQuiz

PRODUCT SETTINGS FACTORY IMAGES OTA UPDATES

Bundles

ID	Filename	Size	Date uploaded
0	Empty bundle	---	---

UPLOAD

Let's get started
To create a starter build,
upload a bundle or use an
empty bundle

Android Things versions

OS build	OS version	Date uploaded
OIR1.170720.015	0.5.0-devpreview(latest)	Aug 10, 2017
NIH40K	0.4.1-devpreview	Jun 14, 2017

CREATE BUILD CONFIGURATION

IoT Console

Download da imagem

The screenshot shows the Android Things Console interface. At the top, there's a navigation bar with icons for back, forward, search, and refresh, followed by the URL <https://partner.android.com/things/console/u/0/#/h1gbqs/build>. On the far right of the bar, there's a user profile for 'Luis'.

The main header says 'androidthings' with a three-dot menu icon to its left. Below it, the product name 'CandyQuiz' is displayed with a back arrow.

The top navigation bar has three tabs: 'PRODUCT SETTINGS', 'FACTORY IMAGES' (which is currently selected and highlighted in green), and 'OTA UPDATES'. To the right of these tabs is a large button labeled 'upload a bundle or use an empty bundle' with a circular icon.

Below the tabs, there's a section titled 'Android Things versions' containing a table:

OS build	OS version	Date uploaded
OIR1.170720.015	0.5.0-devpreview(latest)	Aug 10, 2017
NIH40K	0.4.1-devpreview	Jun 14, 2017

At the bottom right of this section is a green button labeled 'CREATE BUILD CONFIGURATION'.

Below this, there's another section titled 'Build configuration list' with a small help icon. It contains a table:

Bundle ID	Filename	OS build	Created	Status
0	Empty bundle	OIR1.170720.015 (latest)	Aug 21, 2017	<div style="width: 55%;">55%</div>

At the very bottom of the page, there are links for 'Terms | Privacy' and '© 2017 Google'.

IoT Console

Download da imagem

The screenshot shows the Android Things Console interface. At the top, there's a navigation bar with icons for back, forward, search, and refresh, followed by the URL <https://partner.android.com/things/console/u/0/#/h1gbqs/build>. On the far right of the bar, there's a user profile for 'Luis'.

The main header says 'androidthings' with a three-dot menu icon to its left. Below it, the product name 'CandyQuiz' is displayed with a back arrow.

The top navigation bar has three tabs: 'PRODUCT SETTINGS', 'FACTORY IMAGES' (which is currently selected and highlighted in green), and 'OTA UPDATES'. To the right of these tabs is a large button labeled 'upload a bundle or use an empty bundle' with a circular icon.

Below the tabs, there's a section titled 'Android Things versions' containing a table:

OS build	OS version	Date uploaded
OIR1.170720.015	0.5.0-devpreview(latest)	Aug 10, 2017
NIH40K	0.4.1-devpreview	Jun 14, 2017

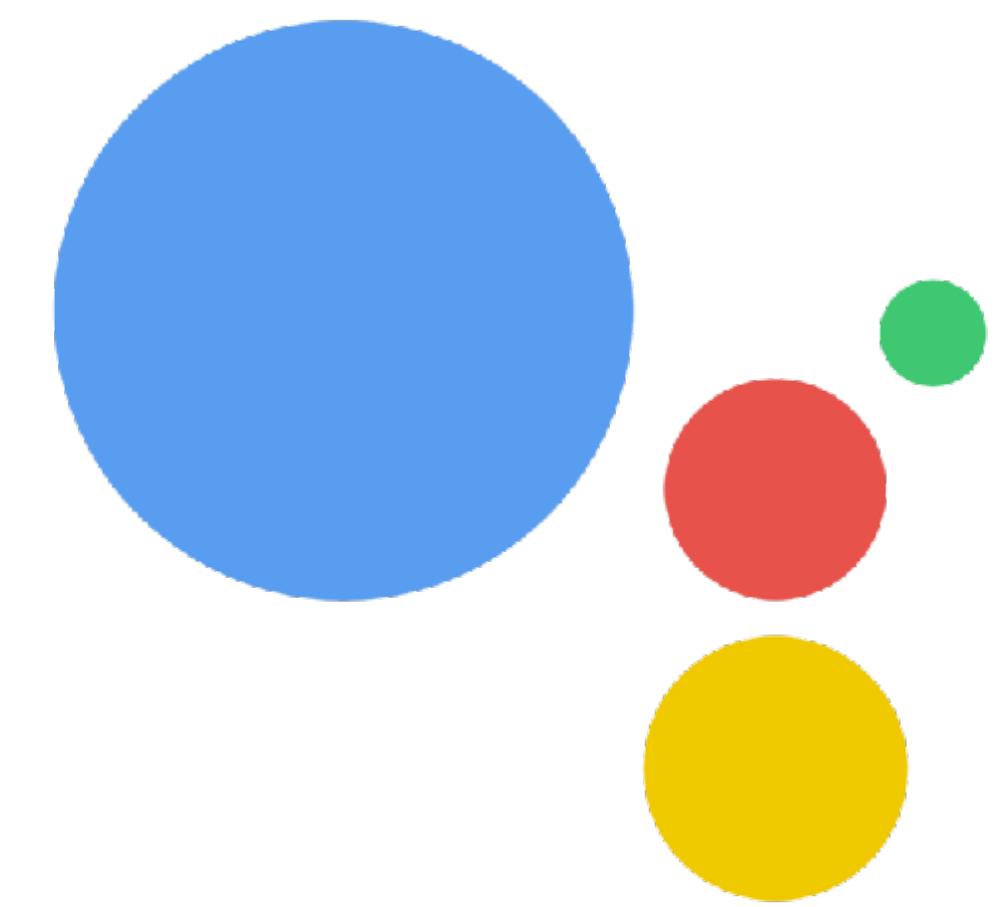
At the bottom right of this section is a green button labeled 'CREATE BUILD CONFIGURATION'.

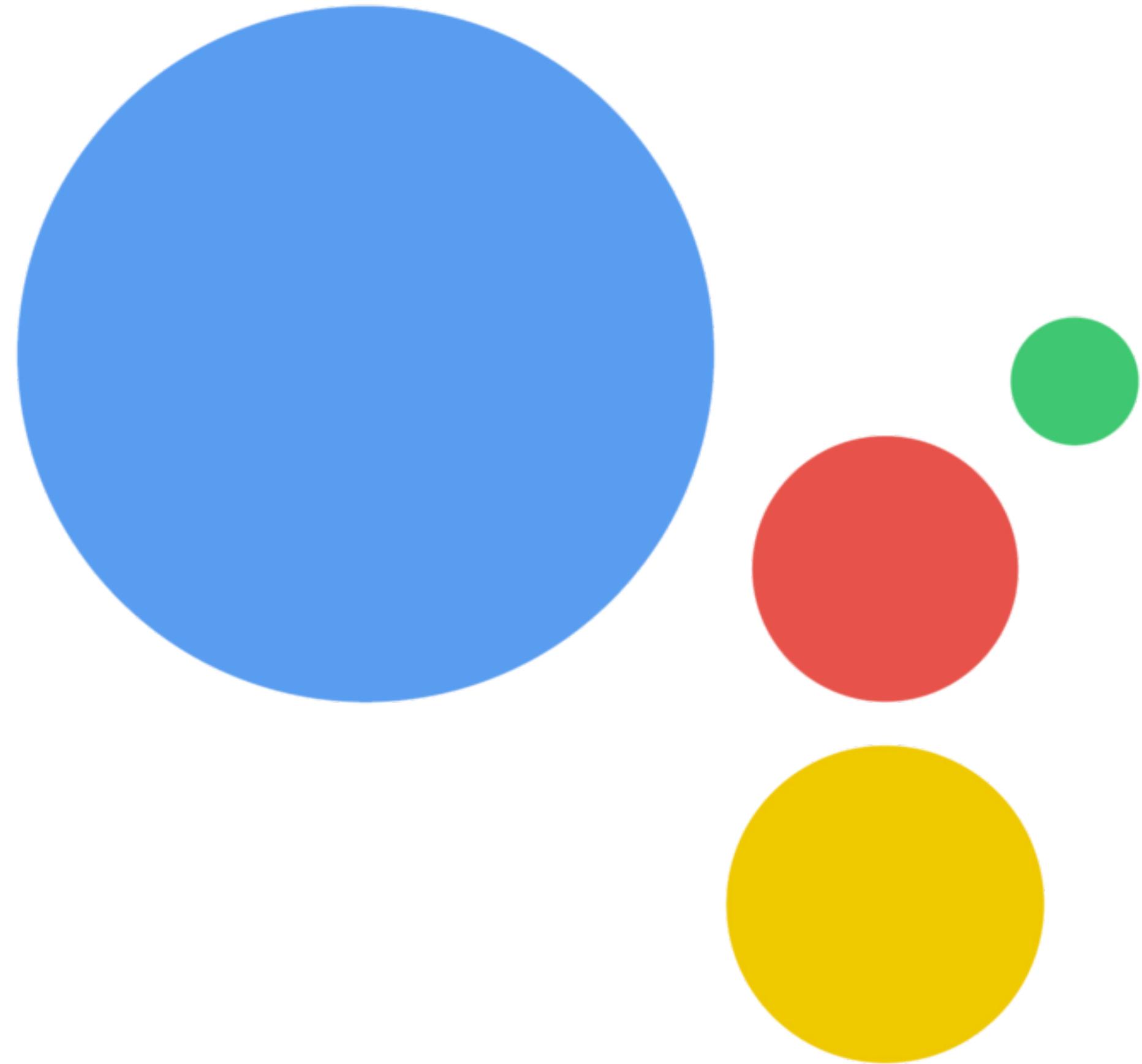
Below this, there's another section titled 'Build configuration list' with a small info icon. It contains a table:

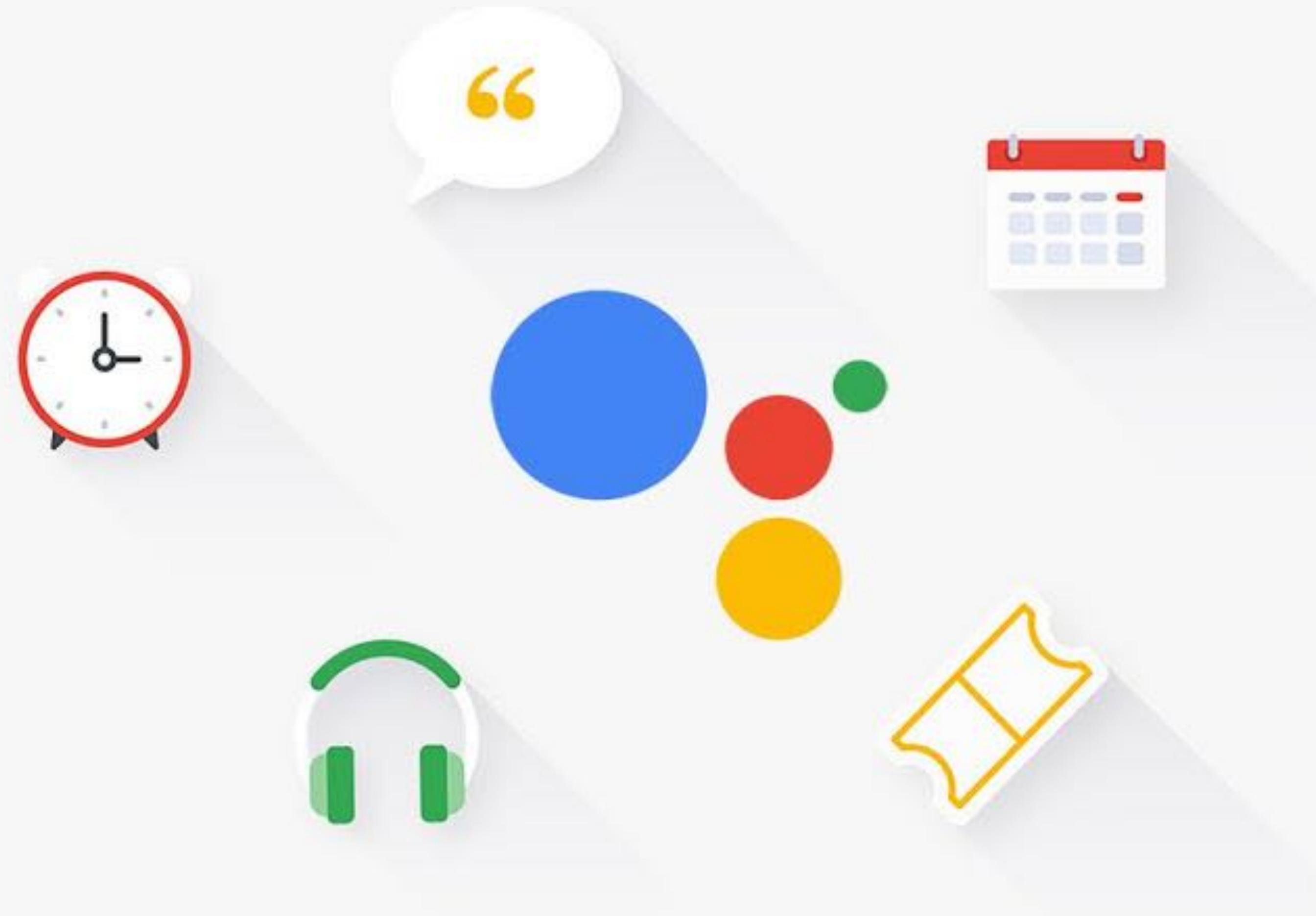
Bundle ID	Filename	OS build	Created	Actions
0	Empty bundle	OIR1.170720.015 (latest)	Aug 21, 2017	Download build

At the very bottom of the page, there are links for 'Terms | Privacy' and '© 2017 Google'.

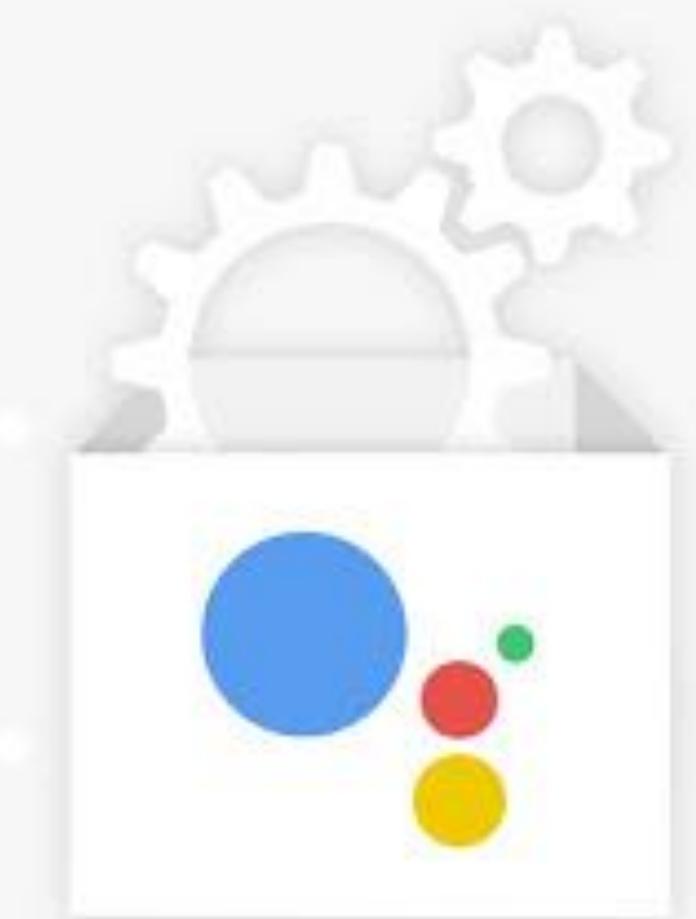
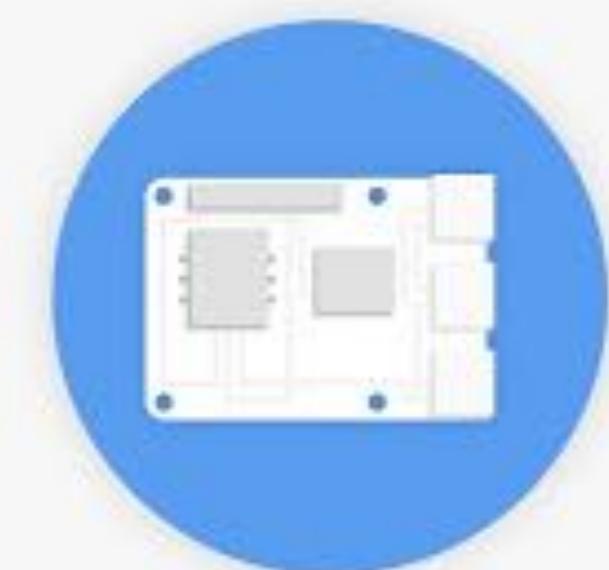
android
things







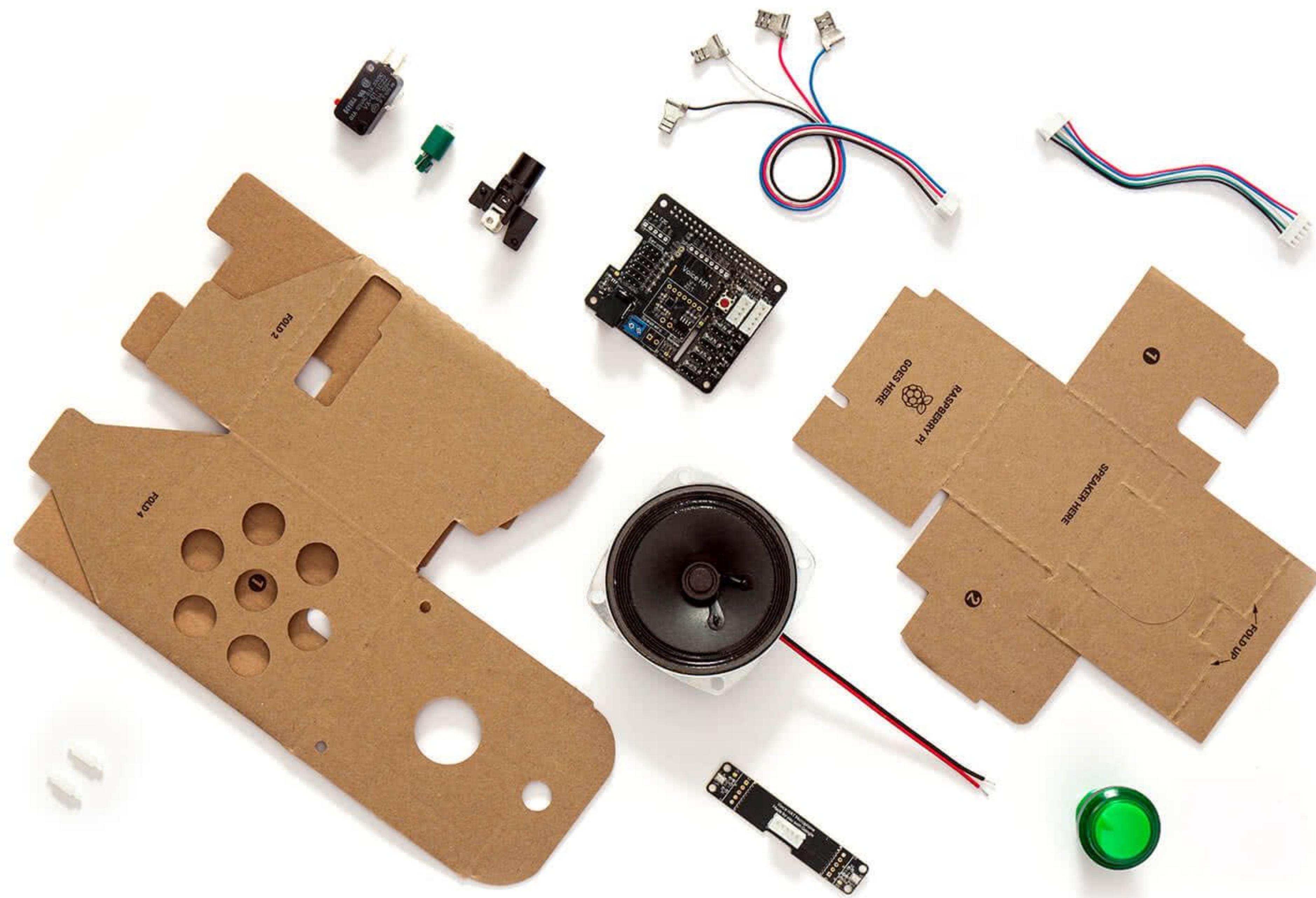
developers.google.com/actions

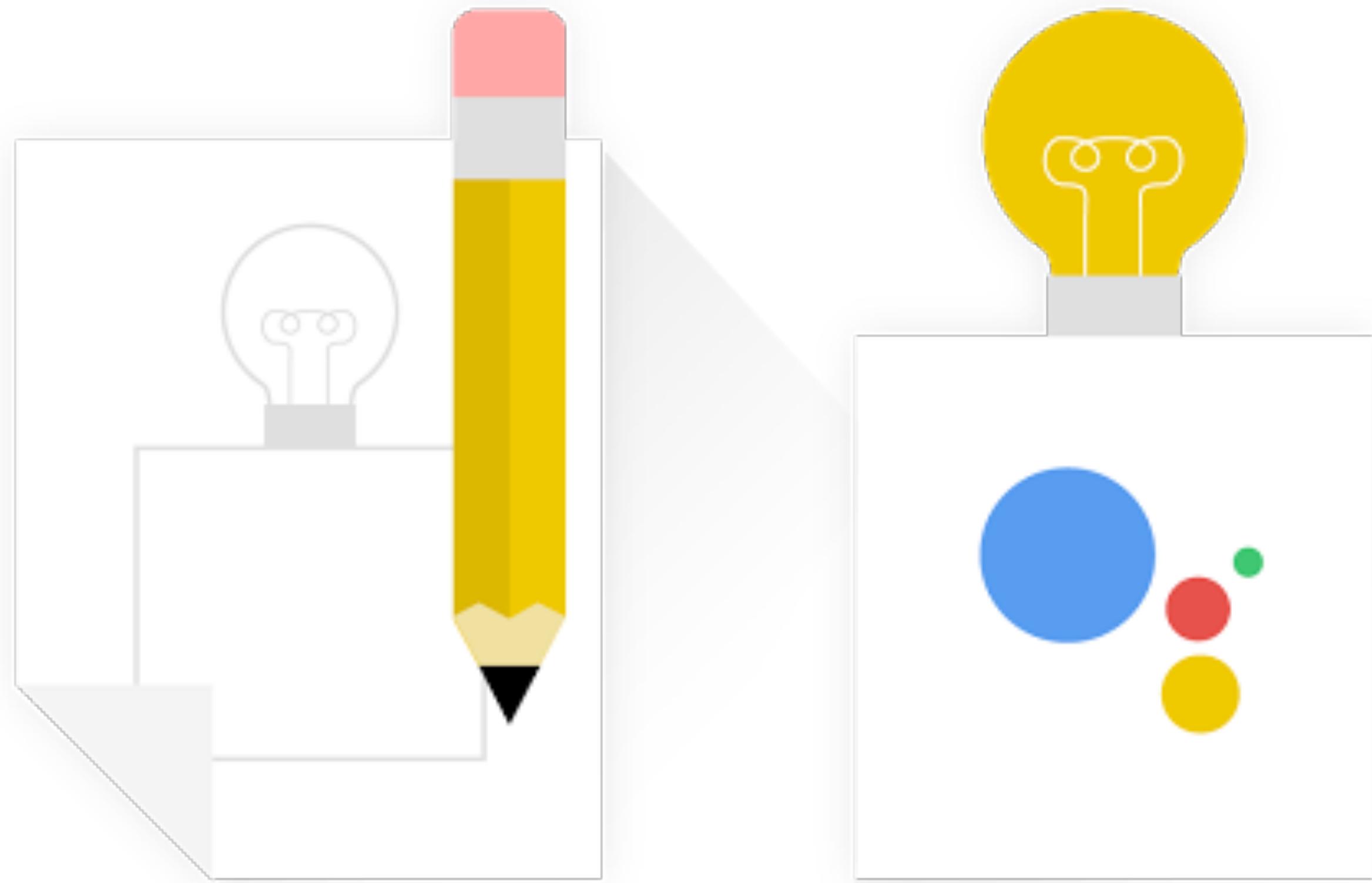


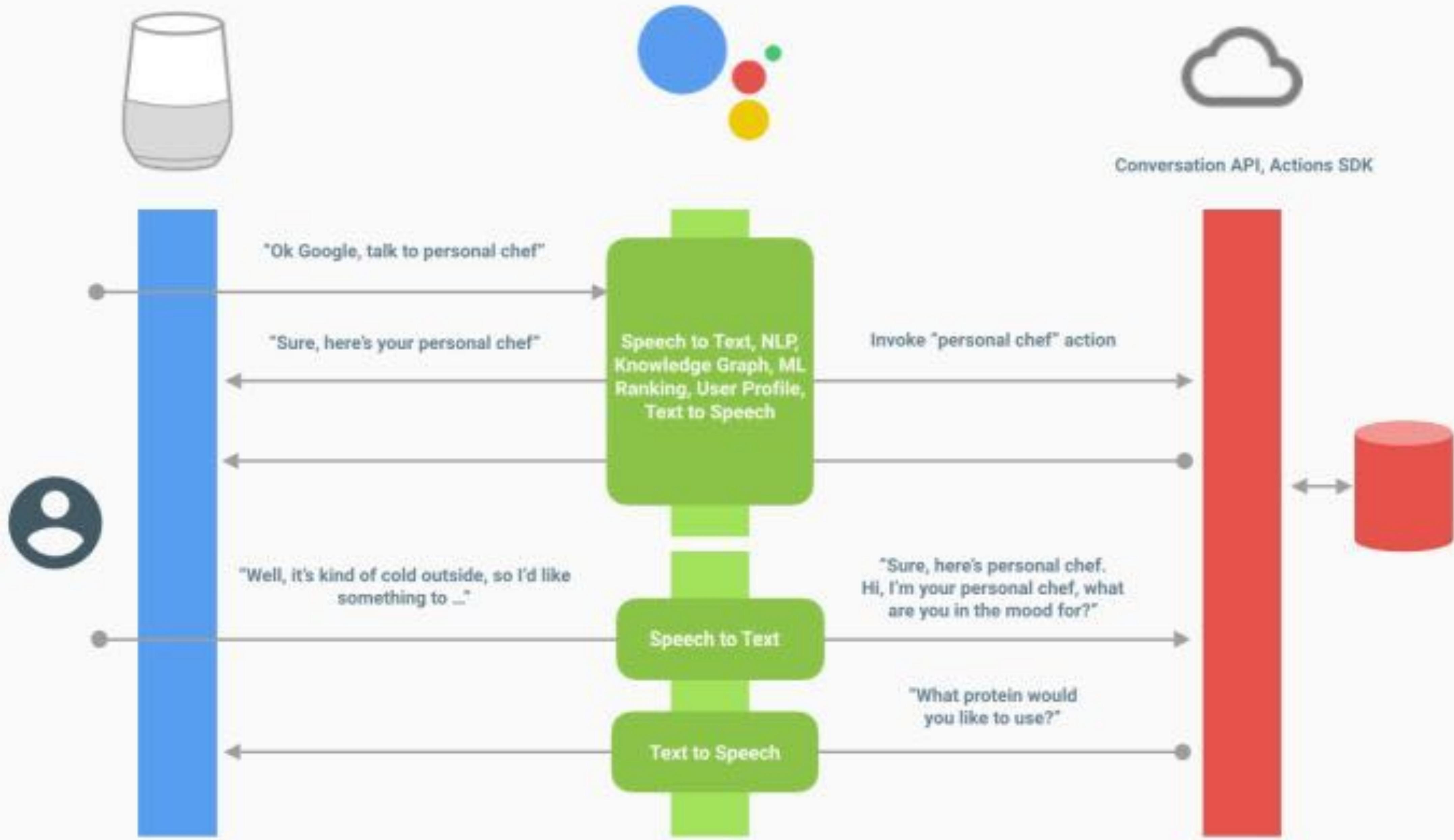
developers.google.com/assistant



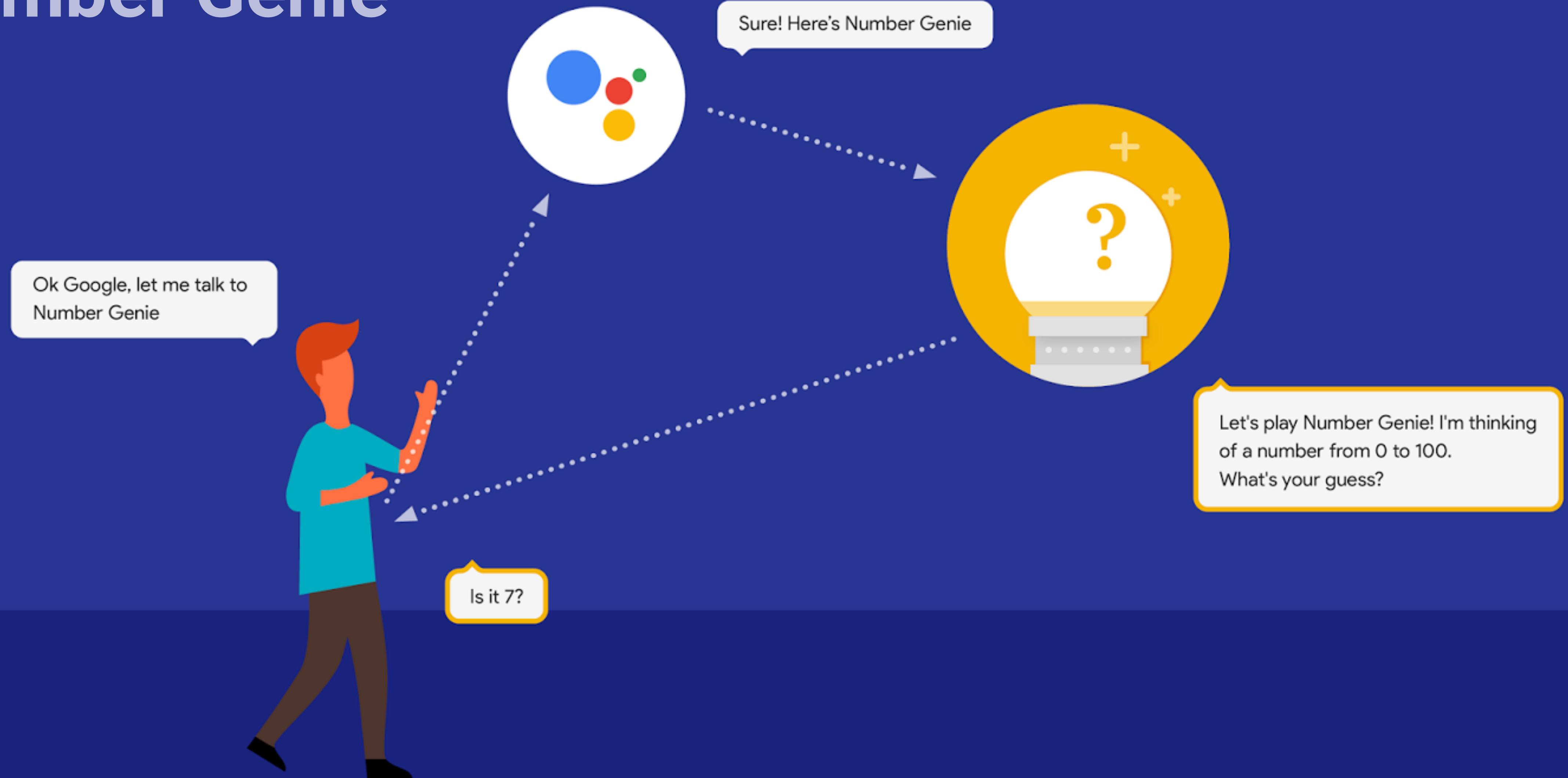
aiyprojects.withgoogle.com







Number Genie

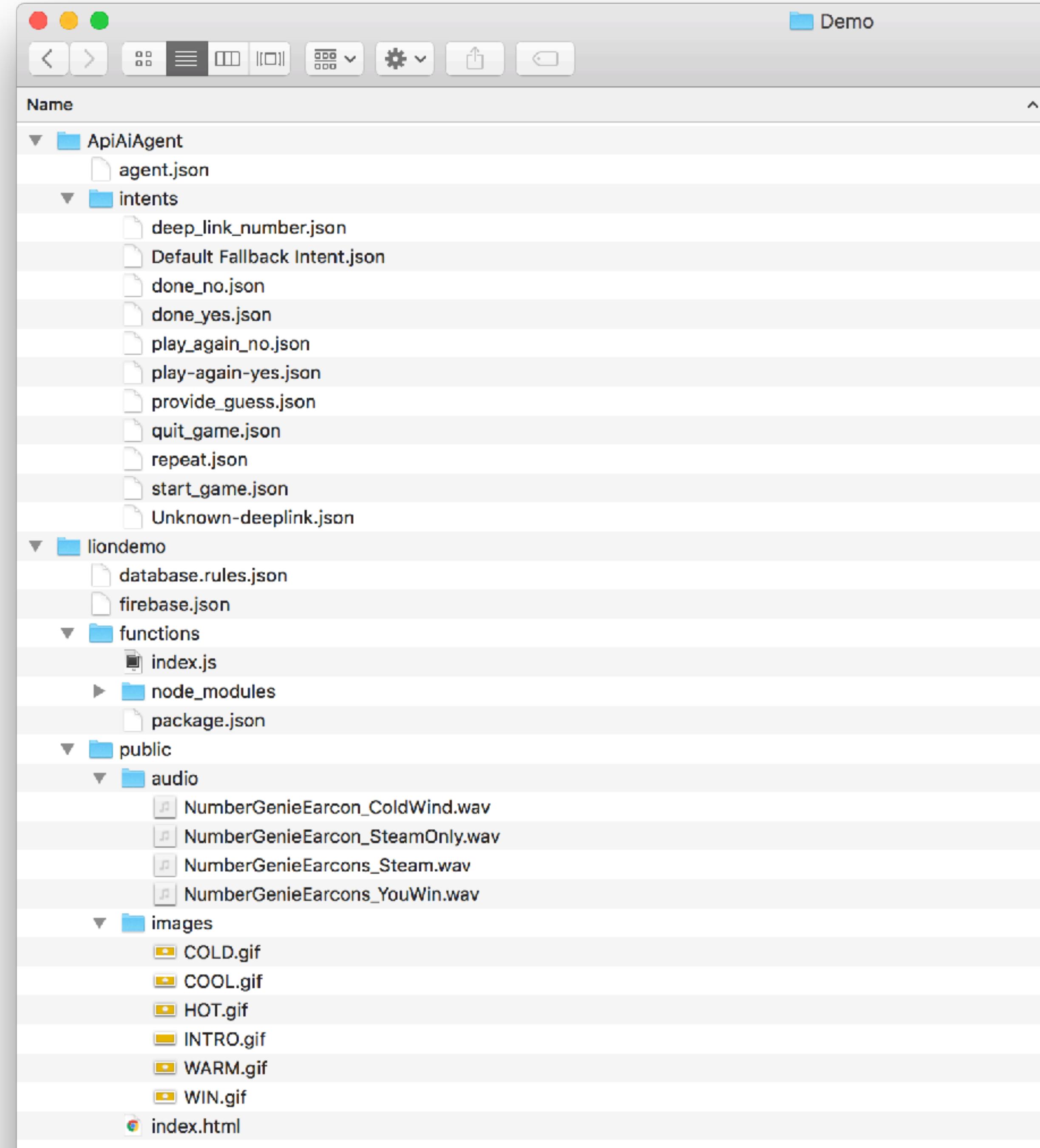


developers.google.com/actions/api/tutorials/number-genie



Estrutura do ‘bot’

API.ai e Firebase Hosting/Cloud Functions



Projeto do API.ai

Criando o bot

The screenshot shows a web browser window for API.ai at the URL <https://console.api.ai/api-client/#/newAgent>. The title bar of the browser says "API.AI". The main content area is titled "LionDemo".
DESCRIPTION: Candy machine demo
ADD SAMPLE DATA: Select sample data to be loaded into new agent or leave unselected for empty agent
LANGUAGE: English
DEFAULT TIME ZONE: (GMT-3:00) America/Buenos_Aires
GOOGLE PROJECT: liondemo2017
A blue "SAVE" button is located in the top right corner of the form. A message in the bottom right corner says: "Try it now" and "Please use test console above to try a sentence."

Projeto do API.ai

Intents

The screenshot shows the API.ai console interface. The top navigation bar includes the API.ai logo, a secure connection indicator, and the URL <https://console.api.ai/api-client/#/agent/af3bbf4d-f174-4311-a544-8df...>. The right side of the bar has various system icons.

The main header features the API.ai logo and the word "Intents" with a help icon. A "CREATE INTENT" button is located in the top right corner. On the far right, there's a vertical ellipsis menu.

The left sidebar, titled "LionDemo", contains the following navigation items:

- Intents** (highlighted with a blue background)
- Entities
- Training [beta]
- Integrations
- Analytics [new]
- Fulfillment
- Prebuilt Agents
- Small Talk
- Docs
- Forum
- Support
- Account
- Logout

The main content area is titled "Intents" and displays two items in a list:

- Default Fallback intent
- Default Welcome Intent

A search bar labeled "Search intents" and a magnifying glass icon are positioned above the list.

Projeto do API.ai

Importando...

The screenshot shows the API.ai console interface for managing an agent named "LionDemo".

General Tab:

- Icon:** An orange speech bubble icon.
- NAME:** LionDemo
- DESCRIPTION:** Candy machine demo
- LANGUAGE:** English
- DEFAULT TIME ZONE:** (GMT-3:00) America/Buenos_Aires

GOOGLE PROJECT:

Project ID	liondemo2017
------------	--------------

API keys:

Client access token	f1359a79a1f546c09634c533e098a878
Developer access token	aeec67468a5f4601a00426630d33d997

DANGER ZONE:

Are you sure you want to delete agent LionDemo? This will destroy the agent with all corresponding data and **cannot be undone!**

DELETE THIS AGENT

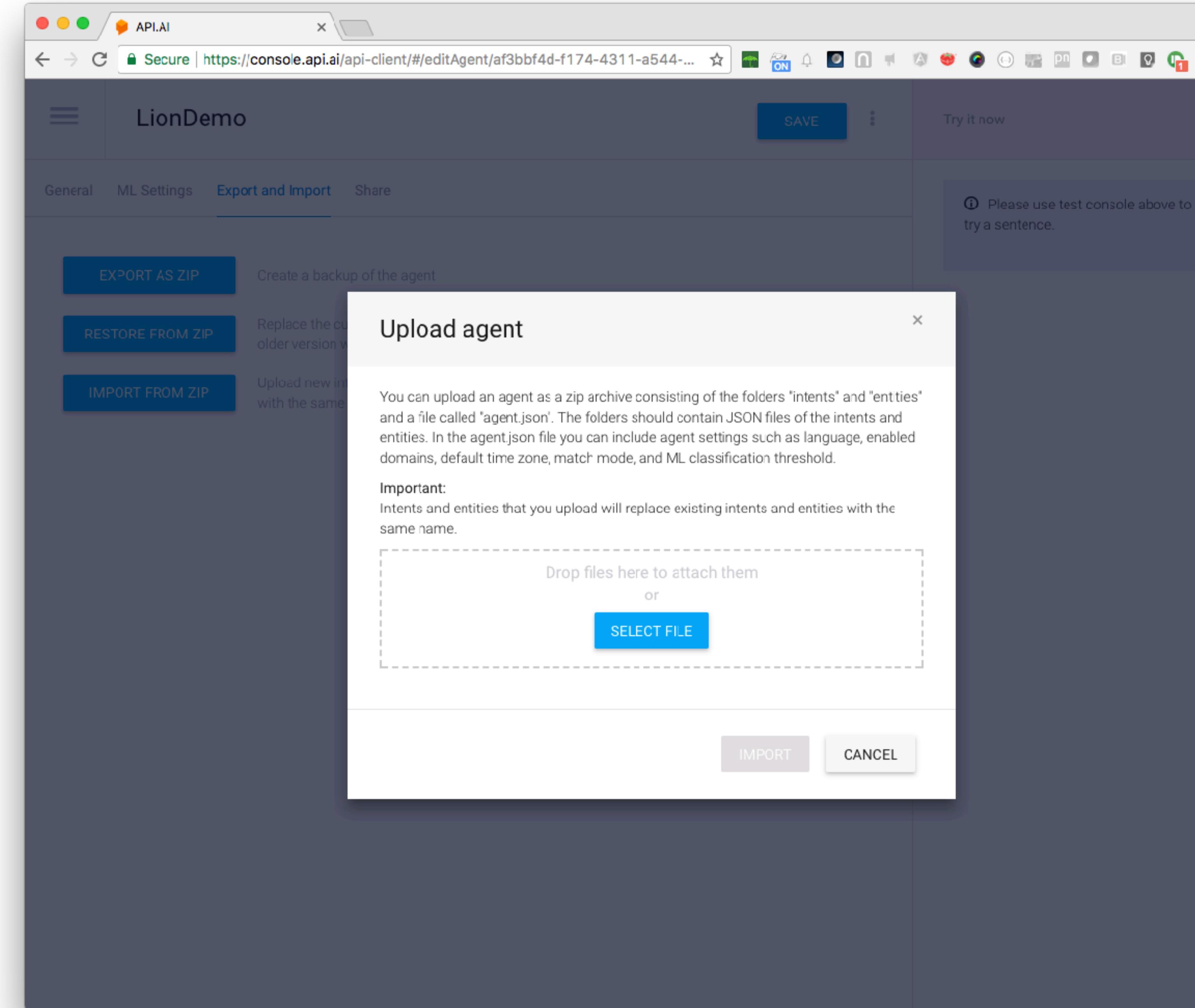
Projeto do API.ai

Importando...

The screenshot shows a web browser window for the API.ai console at the URL <https://console.api.ai/api-client/#/editAgent/af3bbf4d-f174-4311-a544-...>. The title bar indicates it's a secure connection. The page header shows the project name "LionDemo". On the right, there are "SAVE" and "Try it now" buttons. A sidebar on the right says "Please use test console above to try a sentence." The main content area has tabs for "General", "ML Settings", "Export and Import" (which is selected), and "Share". Under the "Export and Import" tab, there are three buttons: "EXPORT AS ZIP" (Create a backup of the agent), "RESTORE FROM ZIP" (Replace the current agent version with a new one. All the intents and entities in the older version will be deleted.), and "IMPORT FROM ZIP" (Upload new intents and entities without deleting the current ones. Intents and entities with the same name will be replaced with the newer version.).

Projeto do API.ai

Importando...



Projeto do API.ai

Intents atualizados

The screenshot shows the API.ai console interface. The title bar reads "Secure | https://console.api.ai/api-client/#/agent/af3bbf4d-f174-4311-a544-8df...". The main header says "Intents". A "CREATE INTENT" button is visible. On the right, there's a message: "Try it now" and "Please use test console above to try a sentence." Below the header is a search bar labeled "Search intents" with a magnifying glass icon. The list of intents is as follows:

- deep_link_number
- Default Fallback Intent
- Default Welcome Intent
- done_no
- done_yes
- play-again-yes
- play_again_no
- provide_guess
- quit_game
- repeat
- start_game
- Unknown-deeplink Contexts: google_assistant_welcome

On the right side of the intent list, there are "Add follow-up intent" buttons for cloud storage and local file.

Projeto do API.ai

Exemplo de um intent

The screenshot shows the API.ai console interface for managing intents. The current intent is named "deep_link_number".

Contexts: None listed.

User says:

- "Add user expression"
- "77"
- "the number 45"
- "number 5"

Events: None listed.

Action: deeplink.number

Parameters:

REQUIRED	PARAMETER NAME	ENTITY	VALUE	IS LIST	PROMPTS
<input checked="" type="checkbox"/>	number	@sys.number	\$number	<input type="checkbox"/>	Define prompts...
<input type="checkbox"/>	Enter name	Enter entity	Enter value	<input type="checkbox"/>	-

Response:

DEFAULT +

Text response:

Enter a text response

Buttons: SAVE, Try it now, Help (info icon), Refresh, Logout, Notifications, Settings, Home, Help, Feedback, Logout.

Note: Please use test console above to try a sentence.

Projeto do API.ai

Configurando o Webhook

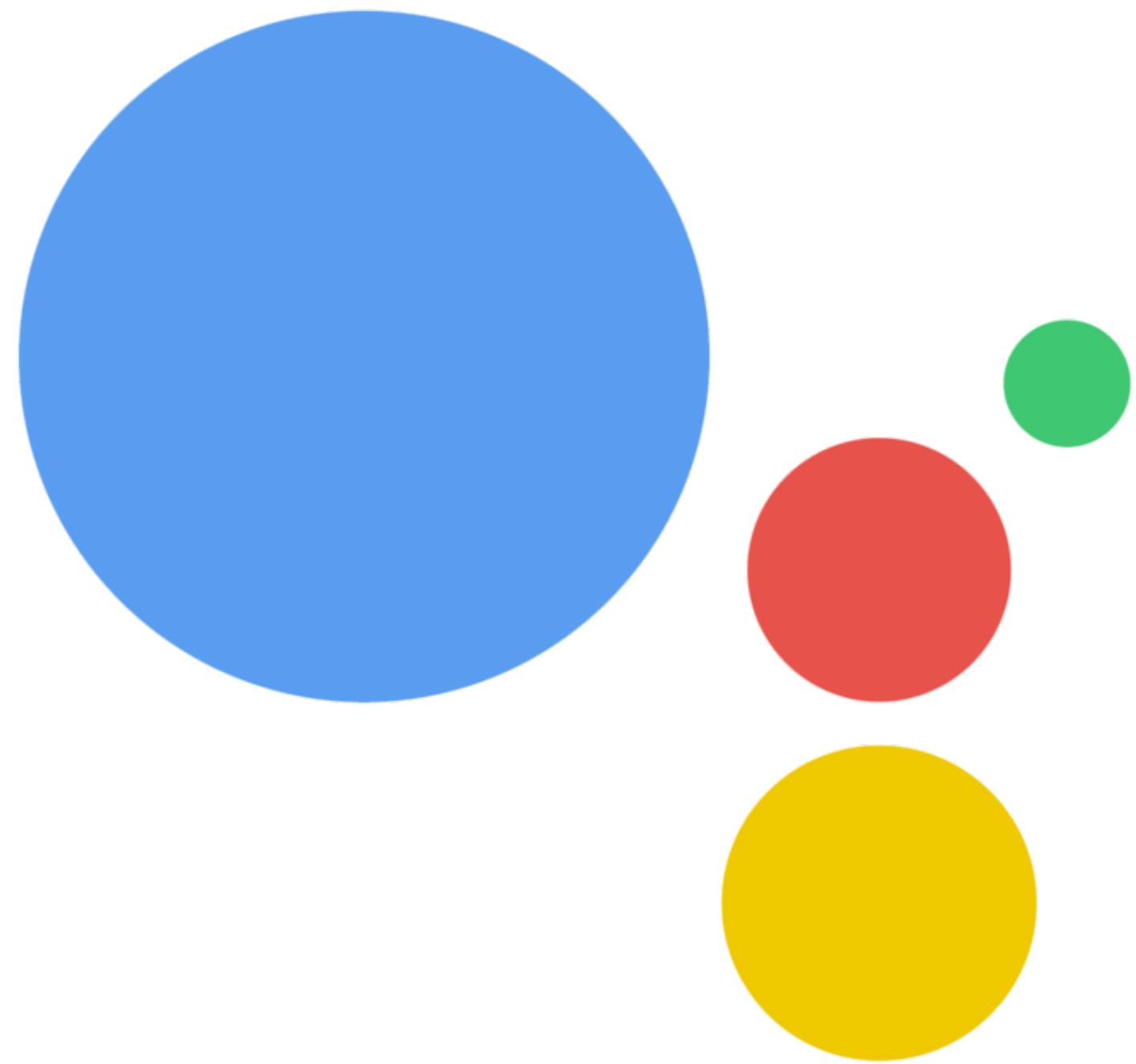
The screenshot shows the API.ai Fulfillment configuration interface. On the left, a sidebar lists project components: Intents, Entities, Training [beta], Integrations, Analytics [beta], and Fulfillment (which is selected and highlighted in blue). Below these are Prebuilt Agents, Small Talk, Docs, Forum, Support, Account, and Logout.

The main right-hand panel is titled "Fulfillment" and specifically "Webhook". It includes an "ENABLED" toggle switch at the top right. The "Webhook" section contains a brief description: "Your web service will receive a POST request from API.AI in the [form of the response](#) to a user query matched by intents with webhook enabled. Be sure that your web service meets all the [webhook requirements](#)". Below this is a "Webhook example" link.

Configuration fields include:

- URL***: https://us-central1-liondemo2017.cloudfunctions.net/webhook
- BASIC AUTH**: Fields for "Enter username" and "Enter password".
- HEADERS**: Fields for "Enter key" and "Enter value", with a "+ Add header" button.
- DOMAINS**: A field with the placeholder "Disable webhook for all domains".

A large blue "SAVE" button is located at the bottom right of the configuration area.



Actions on Google

Criando seu “bot”

The screenshot shows the Actions on Google console interface. At the top, there's a blue header bar with the title "Actions on Google". Below it, a main content area starts with a "Welcome to Actions on Google" message. It explains that Actions on Google is a platform for developers to extend the Google Assistant. There are links for "Documentation", "Sample code", "API reference", and "Support". A large blue button labeled "Add/import project" with a plus sign is prominent. To its right, there's a card for a project named "Lion Candy" which includes a "Gennie" logo. At the bottom, there are links for "Terms" and "Privacy Policy".

Actions on Google

Welcome to Actions on Google

Actions on Google is the platform for developers to extend the Google Assistant. Join this emerging ecosystem by developing actions to engage users on Google Home, Pixel, and many other surfaces where the Google Assistant will be available. [Learn more](#)

[Documentation](#) [Sample code](#) [API reference](#) [Support](#)

Your projects with an Assistant app

Add/import project

Gennie

Lion Candy

Terms · Privacy Policy

Actions on Google

Vinculando ao Firebase

The screenshot shows a web browser window for the Actions on Google console at <https://console.actions.google.com/u/0/>. The main page is titled "Welcome to Actions on Google" and describes the platform for developers to extend the Google Assistant. Below the main content, there is a navigation bar with links to Documentation, Sample code, API reference, and Support.

A modal dialog box is open in the center of the screen, titled "Add project". It contains a "Project name" input field with the value "lion" highlighted. Below the input field are two options: "Add Actions on Google to your existing project" and "liondemo" (which includes a small icon of a lion). A dropdown menu shows "United States" selected. At the bottom of the dialog are "CANCEL" and "CREATE PROJECT" buttons.

At the bottom of the main page, there are links for "Terms" and "Privacy Policy".

Actions on Google

Escolha da plataforma API.ai

The screenshot shows the Actions on Google console interface. At the top, there's a navigation bar with icons for Home, Overview, Analytics, Simulator, and Backend services. The main title "Actions on Google" is displayed above the "Overview" tab, which is currently selected. To the right of the tabs, there's a dropdown menu labeled "liondemo". On the far right of the header, there's a "Go to docs" link. Below the header, the main content area has a blue header bar with the text "Welcome to Actions on Google" and a sub-instruction "Get started by creating an Assistant app, and then publish it to the Google Assistant platform". The main content area is titled "Assistant app draft". It features a large orange circular icon with a yellow gradient, labeled "Assistant app name". Below this, there's a numbered step "1 Add actions to your app" with two options: "API.AI" and "Actions SDK". Each option has a brief description and a small "G" logo. A "See more tools" link is located at the bottom of this section. At the very bottom of the screen, there are three numbered steps: "2 App information", "3 Location targeting", and a back arrow.

Actions on Google

Informações do bot

The screenshot shows the Actions on Google console interface. At the top, there are tabs for 'Actions on Google' and 'API.AI'. The main title is 'Welcome to Actions on Google' with the subtitle 'Get started by creating an Assistant app, and then publish it to the Google Assistant platform'. On the left, a sidebar has 'Overview' selected, along with links for 'Analytics', 'Simulator', and 'Backend services'. The main area is titled 'Assistant app draft' and contains a step-by-step guide:

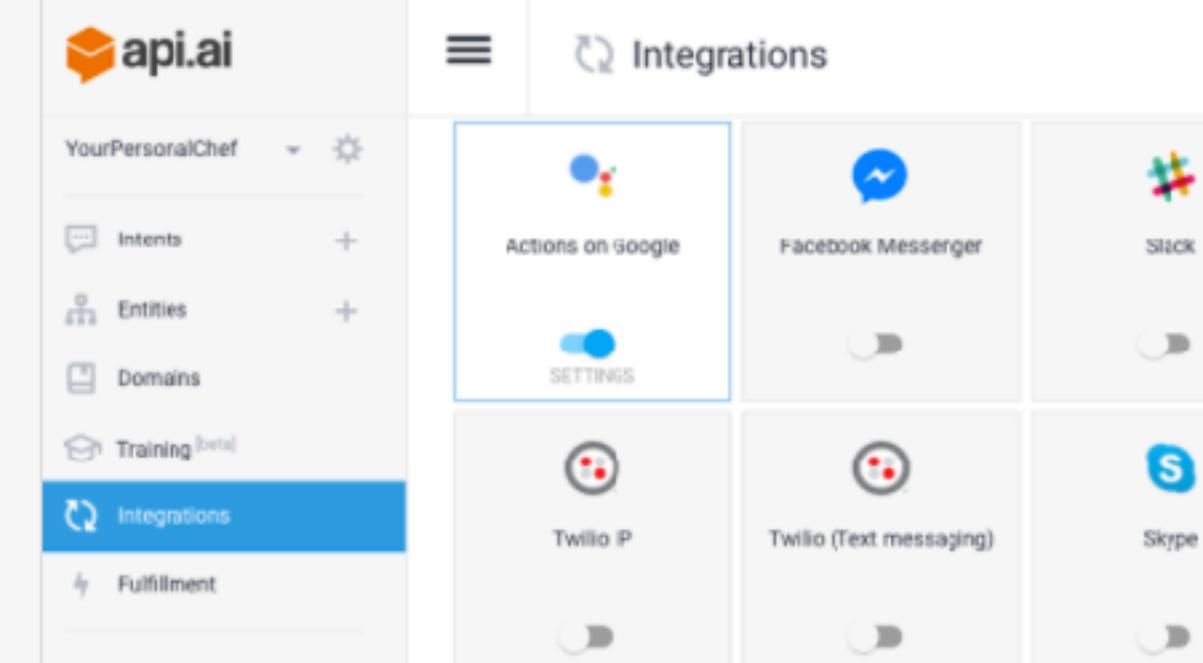
- 1 Assistant app name (with a yellow and orange circular icon)
- 2 Add actions to your app (with a blue circular icon)
- 3 App information (with a blue circular icon)
- 4 Location targeting (All 210 countries (recommended))
- 5 Surface capabilities (No required capabilities)
- 6 Account linking (optional)

Below the steps, there is a note: 'Press TEST DRAFT to test your app in the simulator or on your devices. Submit your draft for review when you are ready to publish your app.' At the bottom right are buttons for 'TEST DRAFT' and 'SUBMIT DRAFT FOR REVIEW'.

Actions on Google

Instruções do API.ai

The screenshot shows a web browser window titled "Actions on Google" with the URL <https://console.actions.google.com/u/0/project/liondemo2017/overview>. The left sidebar includes links for Overview, Analytics, Simulator, and Backend services. A central modal window is open with the title "Use API.AI to add actions to your Assistant app". It contains two numbered steps:

- Create actions on API.AI**
Start creating actions on [APIAI](#). You can read through documentation [here](#).
[CREATE ACTIONS ON API.AI](#)
- Update your app with your actions**
In API.AI, go to Integrations, select Actions on Google, and click **UPDATE**.


At the bottom of the modal, there is an "OK" button. Below the modal, the main page continues with steps 2 and 3:

- App information**
- Location targeting**
All 210 countries (recommended)

Actions on Google

Intent padrão no API.ai

The screenshot shows the API.ai web interface with the title "Actions on Google" in the browser bar. The main navigation menu on the left includes "Intents", "Entities", "Training [beta]", "Integrations" (which is selected), "Analytics [new]", "Fulfillment", "Prebuilt Agents", "Small Talk", "Docs", and "Forum". The "Integrations" section lists "LINE", "Cisco Spark", "Amazon Alexa", and "Microsoft Cortana". A modal window titled "Actions on Google" is open, showing configuration for a "Welcome Intent". The "trigger intent(s)" field contains "start_game". An unchecked checkbox "Sign in required for welcome intent" is present. The "Additional triggering intents" section has a placeholder "Select intent". Below the modal, a note says "Test your Assistant app" and "Additional settings" with a checked option "Use Actions on Google Conversation API V2". Buttons for "CLOSE", "TEST", and "UPDATE DRAFT" are at the bottom of the modal.

Actions on Google

Publish an Assistant app to the Actions on Google platform

Setup your trigger intent(s) and TEST how your API.AI configuration will work in Actions on Google. Then, press "UPDATE DRAFT" to update your Actions on Google draft with your API.AI configuration. [Learn more](#)

Set up triggering intents

Welcome Intent *

start_game

Sign in required for welcome intent

Additional triggering intents

Select intent

Test your Assistant app

Test how your current API.AI configuration will work as an Actions on Google App. You can test on [Actions Simulator](#) or any Actions on Google enabled devices (e.g. Google Home) that you own and are signed in to.

Additional settings:

Use Actions on Google Conversation API V2. [Learn more](#)

CLOSE TEST UPDATE DRAFT

LINE Cisco Spark Amazon Alexa Microsoft Cortana

Actions on Google

Informações do app

The screenshot shows the Actions on Google console interface. The left sidebar has links for Overview, Analytics, Simulator, and Backend services. The main area is titled "App information" under "Overview". It shows the current step is "Name".
Name
Name: Lion Demo, lion demo
Lion Demo
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
lion demo
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.
NEXT
The right sidebar lists the remaining steps:

- 2 Details
- 3 Images
- 4 Contact details
- 5 Privacy and consent

Actions on Google

Criando seu app

Screenshot of the Actions on Google console showing the App information page.

The page title is "Actions on Google" and the sub-page title is "liondemo > Overview > App information".

Left sidebar:

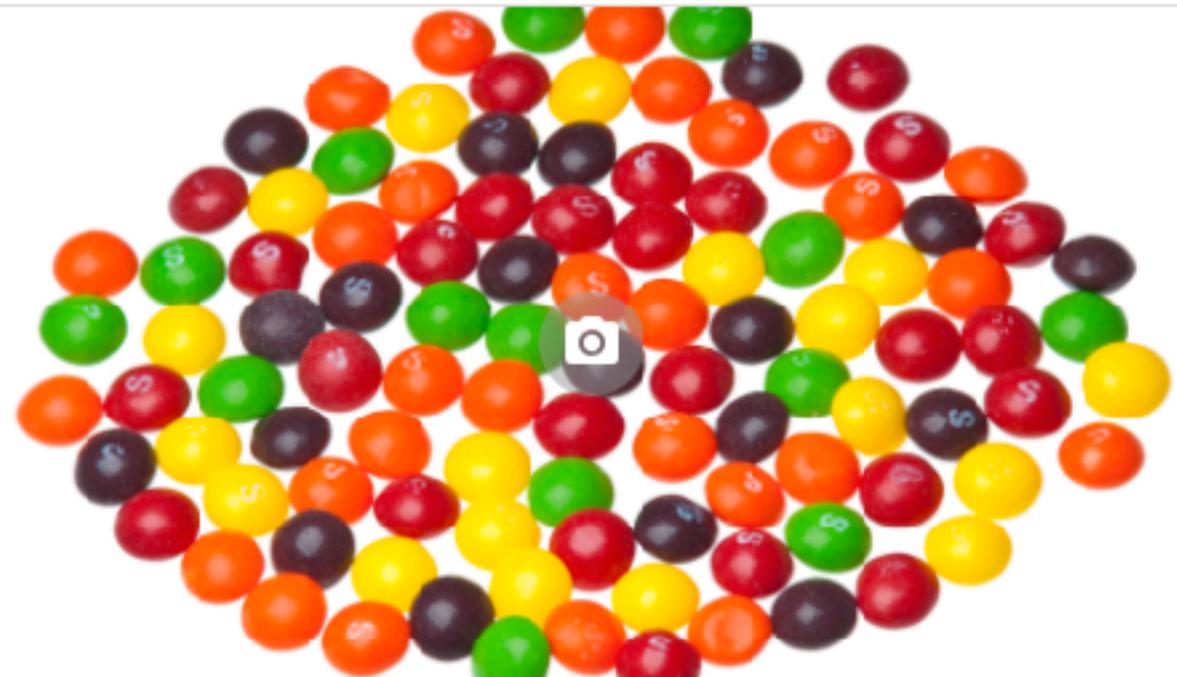
- Overview (selected)
- Analytics
- Simulator
- Backend services

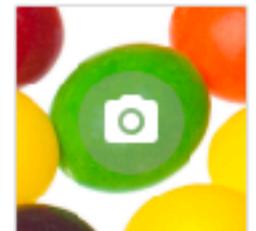
Main content area:

Details
You can use this app to get candies

Images
largebanner.png, squarelogo.png

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) 

BACK NEXT

Contact details

Privacy and consent

Additional Information

Category
Please select the category

Actions on Google

Criando seu app

The screenshot shows the Actions on Google console interface. The top navigation bar includes tabs for Overview, Analytics, Simulator, and Backend services. The main content area is titled "Details" and contains the following fields:

- You can use this app to** 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**: Male 1
- Match user's language setting ?
- Short description**: Lion Demo will show you how to get candies
- A short, one line description of your app**
- Full description**: That's a demo for educational purposes explaining how to use Action and API.ai
- A complete description of your app**
- Sample invocations** ?: Ok Google, Talk to Lion Demo
- 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](#) ?
-

At the bottom, there are "BACK" and "NEXT" buttons.

Actions on Google

Criando seu app

The screenshot shows the 'Actions on Google' console interface. The top navigation bar includes tabs for 'Overview', 'Analytics', 'Simulator', and 'Backend services'. The main content area is titled 'App information' and displays several sections:

- Details:** You can use this app to get candies.
- Images:** largebanner.png, squarelogo.png
- Contact details:** Luis Leao, eu@luisleao.com.br

A note states: "This information will be displayed publicly". Below this, there are fields for 'Developer name (optional)' containing 'Luis Leao' and 'Email' containing 'eu@luisleao.com.br'. At the bottom of this section are 'BACK' and 'NEXT' buttons, with 'NEXT' being highlighted in blue.

At the bottom of the main content area, there is a section titled 'Privacy and consent'.

Additional Information

Category
Please select the category

The category that best describes your Assistant app. This will help users discover your Assistant app.

Testing Instructions (optional)
Provide any additional information needed to test your app. If your app requires account linking or login information, you must provide a username and password for a test account. Please make sure that any provided accounts are not

Actions on Google

Criando seu app

The screenshot shows the Actions on Google console interface. The top navigation bar includes tabs for Overview, Analytics, Simulator, and Backend services. The main content area displays the following app information:

- Details:** You can use this app to get candies.
- Images:** largebanner.png, squarelogo.png
- Contact details:** Luis Leao, eu@luisleao.com.br
- Privacy and consent:** http://luisleao.com.br/, http://luisleao.com.br/

A note states: "This information will be displayed publicly". Below this, there is a link to "Need help creating a Privacy Policy?" and a "LEARN MORE" button. Further down, there are fields for "Link to Privacy Policy" containing "http://luisleao.com.br/" and "Link to Terms of Service (optional)" also containing "http://luisleao.com.br/". A "Stay up to date" section includes a link to "Sign up for the mailing list" and a "Marketing and promotional permissions" section with a link to "Sign up for your Assistant app" and a note about potential inclusion in Google Assistant marketing campaigns.

Actions on Google

Criando seu app

The screenshot shows the 'Actions on Google' console interface. The top navigation bar includes the 'Actions on Google' logo, a tab for 'API.AI', and a URL 'Secure | https://console.actions.google.com/u/0/project/liondemo2017/overview/d...'. The main header is 'Actions on Google' with a dropdown for 'liondemo' and 'Overview > App information'. On the left, there's a sidebar with 'Overview' selected, followed by 'Analytics', 'Simulator', and 'Backend services'. The main content area has a heading 'Additional Information' under 'Category'. A dropdown menu shows 'Education & reference' selected. Below it, a note says 'The category that best describes your Assistant app. This will help users discover your Assistant app.' Under 'Testing Instructions (optional)', there's a large empty text area. The 'Transactions' section asks 'Does your app perform Transactions?' with a 'Yes' checkbox. At the bottom right are 'CANCEL' and 'SAVE' buttons.

Sign up for your Assistant app [\[\]](#) to potentially be included in Google Assistant marketing campaigns and promotions

Additional Information

Category

Education & reference

The category that best describes your Assistant app. This will help users discover your Assistant app.

**Testing Instructions
(optional)**

Provide any additional information needed to test your app. If your app requires account linking or login information, you must provide a username and password for a test account. Please make sure that any provided accounts are not real user accounts. This information will only be used by the review team, and will not be visible to users.

Transactions

Does your app perform Transactions? [\[? \]](#)

Yes

CANCEL **SAVE**

Actions on Google

Concluindo a criação do app

The screenshot shows the Actions on Google console interface. At the top, there are three tabs: 'Actions on Google' (active), 'API.AI', and another 'API.AI' tab. The URL in the address bar is <https://console.actions.google.com/u/0/project/liondemo2017/overview>. The main header says 'Actions on Google' and 'liondemo Overview'. On the left sidebar, there are links for 'Overview' (which is active and highlighted in blue), 'Analytics', 'Simulator', and 'Backend services'. The main content area is titled 'Welcome to Actions on Google' with the sub-instruction 'Get started by creating an Assistant app, and then publish it to the Google Assistant platform'. Below this, it says 'Assistant app draft' and shows a card for 'Lion Demo' (Last modified at 11:49 PM). The card lists several configuration items with status indicators:

- Actions added from API.AI (checkmark): Actions: start_game
- App information (checkmark): Assistant app name: Lion Demo, Pronunciation: lion demo, Description: That's a dem...
- Location targeting (pen icon): All 210 countries (recommended)
- Surface capabilities (checkmark): No required capabilities
- Account linking (optional) (blue circle with number 5): Set up authentication so that users can link their accounts to your app. [Learn more](#)

At the bottom of the card, there is an 'ADD' button. Below the card, a note says 'Press TEST DRAFT to test your app in the simulator or on your devices. Submit your draft for review when you are ready to publish your app.' A red box highlights the 'TEST DRAFT' button, and the 'SUBMIT DRAFT FOR REVIEW' button is also visible.

Autenticação e Propriedade

Vinculando a API e autenticando o usuário no hardware



Ativando a API antes de criar o assistente

The screenshot shows the Google APIs Dashboard for the project 'liondemo'. The left sidebar has 'Painel' selected. The main area displays metrics for the last hour: 'Tráfego' (No traffic), 'Erros' (No errors), and 'Latência média' (No latency data). A table at the bottom lists various Google APIs with their status: Desativada (Disabled) for all.

API	Solicitações	Erros	Proporção de erros	Latência, média	Latência, 98%	Ação
BigQuery API	—	—	—	—	—	Desativa
Firebase Dynamic Links API	—	—	—	—	—	Desativa
Firebase Rules API	—	—	—	—	—	Desativa
Google App Engine Admin API	—	—	—	—	—	Desativa
Google Cloud APIs	—	—	—	—	—	Desativa
Google Cloud Datastore API	—	—	—	—	—	Desativa
Google Cloud Functions API	—	—	—	—	—	Desativa
Google Cloud Messaging	—	—	—	—	—	Desativa
Google Cloud Pub/Sub API	—	—	—	—	—	Desativa
Google Cloud RuntimeConfig API	—	—	—	—	—	Desativa
Google Cloud SQL	—	—	—	—	—	Desativa
Google Cloud Storage	—	—	—	—	—	Desativa

Ativando a API

antes de criar o assistente

The screenshot shows a web browser window titled "Biblioteca de APIs - liondemo". The URL in the address bar is <https://console.developers.google.com/apis/library?project=liondemo2017>. The page is titled "Google APIs" and shows the "liondemo" project selected. The left sidebar has three main options: "Painel" (selected), "Biblioteca" (highlighted with a blue background), and "Credenciais". The right panel is titled "Biblioteca" and has tabs for "APIs do Google" (selected) and "APIs privadas". A search bar at the top of the right panel contains the text "assistants". Below the search bar, there is a link "Voltar para APIs populares". A table lists one API entry:

Nome	Descrição
Google Assistant API	Google Assistant API

The bottom of the browser window shows the URL <https://console.developers.google.com/apis/api/embeddedassistant.googleapis.com/overview?project=liondemo2017>.

Ativando a API antes de criar o assistente

Google APIs - liondemo

Secure | https://console.developers.google.com/apis/api/embeddedassistant.googl... ON

Google APIs liondemo

API APIs e serviços Google Assistant API ATIVAR

Painel

- Biblioteca
- Credenciais

Sobre esta API

Google Assistant API

Como usar credenciais com esta API

Como acessar dados do usuário com o OAuth 2.0

Você pode acessar os dados do usuário com esta API. Na página Credenciais, crie um ID do cliente OAuth 2.0. A ID do cliente solicita o consentimento do usuário para que seu app possa acessar os dados do usuário. Inclua essa ID do cliente ao fazer sua chamada de API para o Google. [Saiba mais](#)

Documentação

OAuth 2.0

Seu app → Consentimento do usuário → Dados do usuário

Seu serviço → Autorização → Serviço do Google

Ativando a API antes de criar o assistente

The screenshot shows the Google Cloud Platform API credentials page for a project named "liondemo". The left sidebar lists "Painel", "Biblioteca", and "Credenciais" (selected). The main content area is titled "Credenciais" and includes tabs for "Credenciais", "Tela de consentimento OAuth", and "Confirmação de domínio". A sub-menu "Criar credenciais" is open, showing options: "Chave de API" (selected), "ID do cliente OAuth", and "Chave da conta de serviço". Below these are sections for "Ajude-me a escolher" and "IDs do cliente OAuth 2.0". A table lists one client ID:

<input type="checkbox"/>	Nome	Data de criação	Tipo	ID do cliente
<input type="checkbox"/>	Web client (auto created by Google Service)	23 de ago de 2017	Aplicativo da Web	764842754410-1a4gkg5ulhqfl5nh7en964v9k20qs418.apps.googleusercontent.com

Ativando a API antes de criar o assistente

The screenshot shows a web browser window titled "Assistente de credenciais - lior" with the URL <https://console.developers.google.com/apis/credentials/wizard?project=liondemo>. The page is part of the "Google APIs" section for the project "liondemo".

API APIs e serviços

Credenciais

Adicione credenciais a seu projeto

1 Descubra que tipos de credenciais você precisa

Ajudaremos você a configurar as credenciais corretas. Se quiser, pule esta etapa e crie uma [chave de API](#), um [ID do cliente](#) ou uma [conta de serviço](#).

Qual API você usa?

Determina que tipo de credenciais é necessário.

Google Assistant API

De onde você chamará a API?

Determina que tipo de configurações é necessário configurar.

Outra UI (por exemplo, Windows, ferramenta CLI)

Que dados você acessará?

Dados do usuário
Acessar dados pertencentes a um usuário do Google com a permissão dele

Dados do aplicativo
Acessar dados pertencentes a seu próprio aplicativo

Preciso de quais credenciais?

2 Conseguir suas credenciais

Cancelar

Ativando a API antes de criar o assistente

The screenshot shows a web browser window titled "Assistente de credenciais - liorx" with the URL <https://console.developers.google.com/apis/credentials/wizard?project=liorx>. The page is part of the "Google APIs" section for the project "liorx".

The left sidebar has three items: "Painel", "Biblioteca", and "Credenciais", with "Credenciais" selected.

The main content area is titled "Adicione credenciais a seu projeto". It contains a checked checkbox for "Descubra que tipos de credenciais você precisa" followed by the text "Chamando Google Assistant API de uma plataforma baseada em UI".

Step 2: "Crie um ID do cliente OAuth 2.0" is shown. A text input field is labeled "Nome" with the value "AndroidThinge" entered. A blue button labeled "Criar ID do cliente" is visible.

Step 3: "Faça o download de credenciais" is partially visible below the second step.

A "Cancelar" button is located at the bottom of the wizard steps.

Ativando a API antes de criar o assistente

The screenshot shows a web browser window titled "Assistente de credenciais - li..." with the URL <https://console.developers.google.com/apis/credentials/wizard?project=li...>. The page is part of the "Google APIs" section for project "liondemo".

The left sidebar has three options: "Painel", "Biblioteca", and "Credenciais", with "Credenciais" selected.

The main content area is titled "Adicione credenciais a seu projeto" and lists two checked items:

- Descubra que tipos de credenciais você precisa
Chamando Google Assistant API de uma plataforma baseada em UI
- Crie um ID do cliente OAuth 2.0
Cliente do OAuth 'AndroidThings' criado

Below these items is a section titled "3 Faça o download de credenciais" with a "Client ID" field containing the value "764842754410-uu3u03ffp2h0dfn3cstbk4qicmr341kn.apps.googleusercontent.com". A note below the field says: "Faça o download dessas informações de credenciais no formato JSON. Isso está sempre disponível na página de credenciais." There are two buttons: "Fazer o download" (highlighted in blue) and "Farei isso mais tarde".

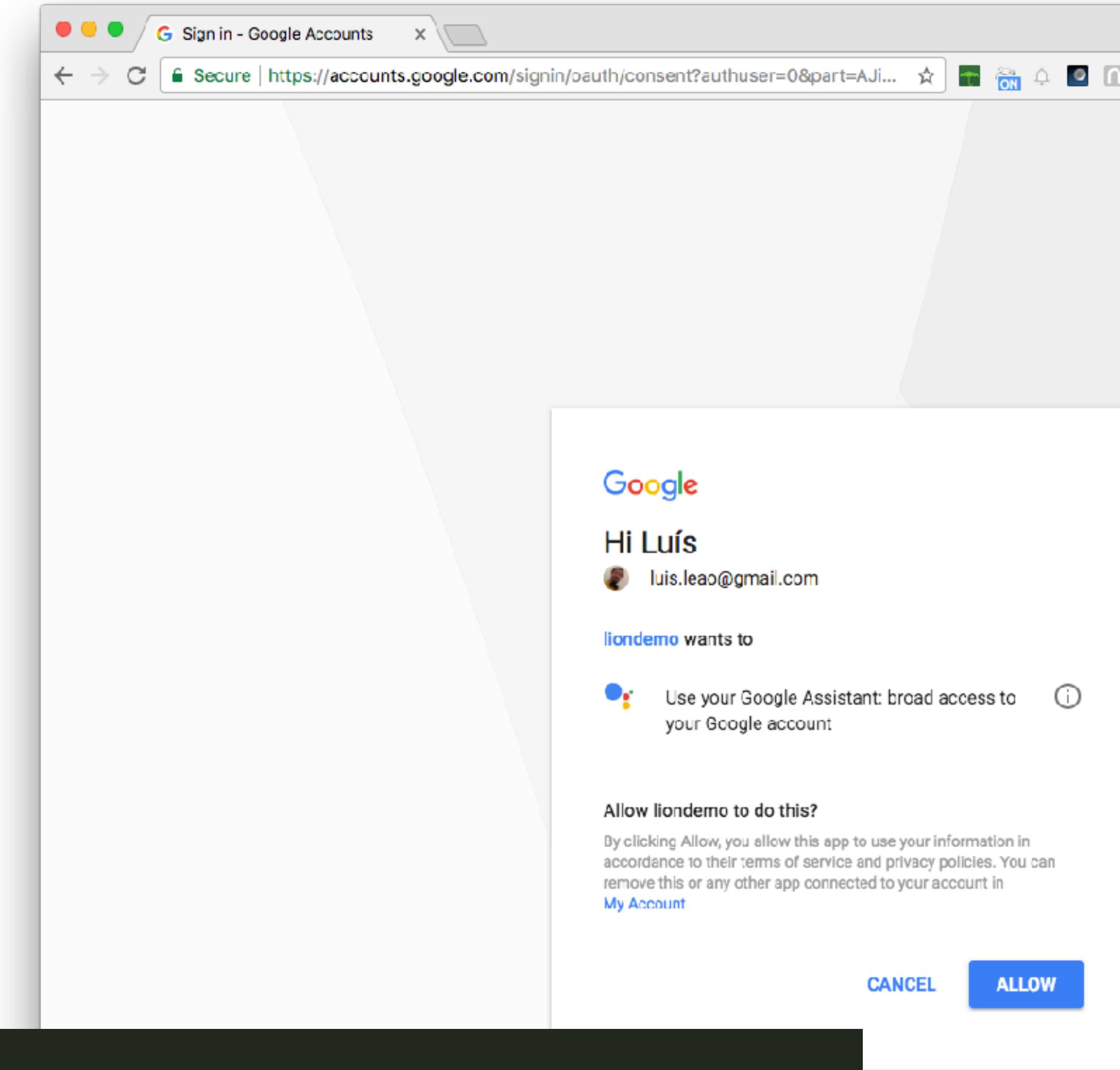
At the bottom of the page are "Concluído" and "Cancelar" buttons.

A status bar at the bottom of the browser window shows the URL: "data:attachment;json;charset=utf-8,%7B\"installed\":%3A%7B\"client_id\":\"%3A\"764842754410-uu3u03ffp2h0dfn3cstbk4qicmr341kn.apps.googleusercontent.com\"%2C\"project_id\":\"%3A\"liondemo2017\"%2C\"auth_uri\":\"%3A\"ht...

Autenticando...

vinculando seu usuário

```
google-oauthlib-tool --client-secrets ~/Desktop/AndroidThings/CandyQuiz/Demo/client_id.json \
--credentials app/src/main/res/raw/credentials.json \
--scope https://www.googleapis.com/auth/assistant-sdk-prototype \
--save
```

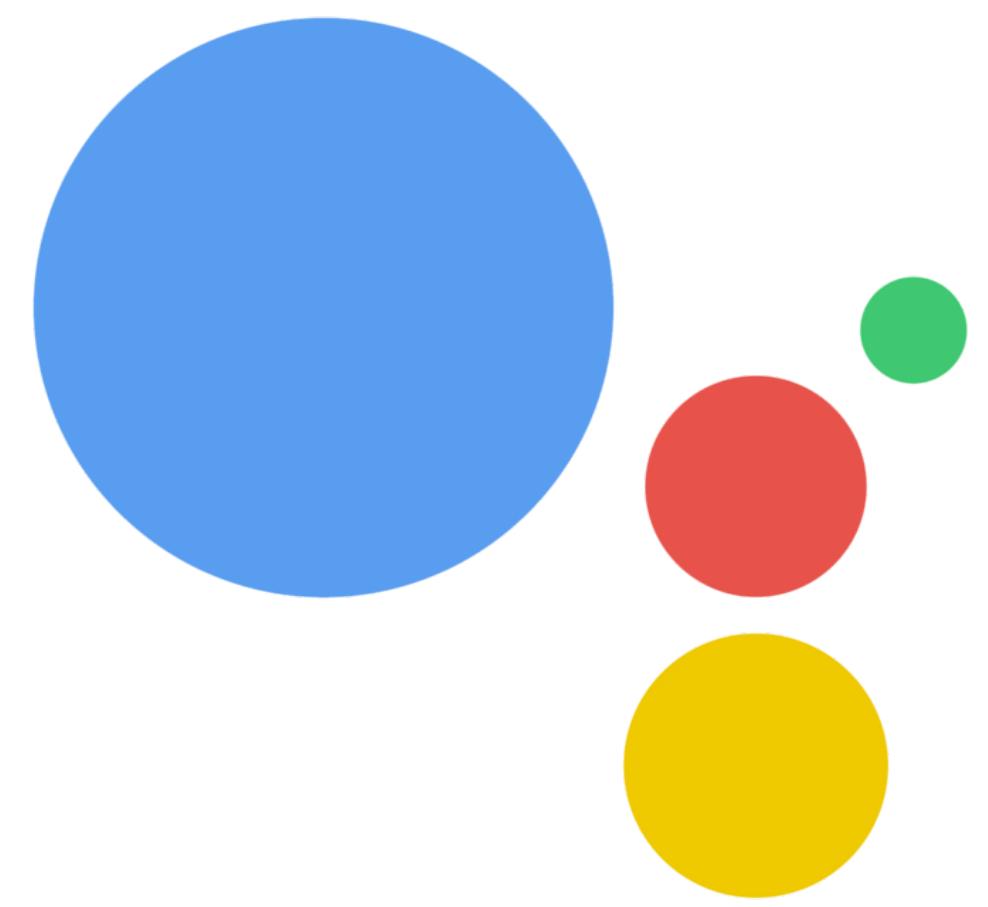
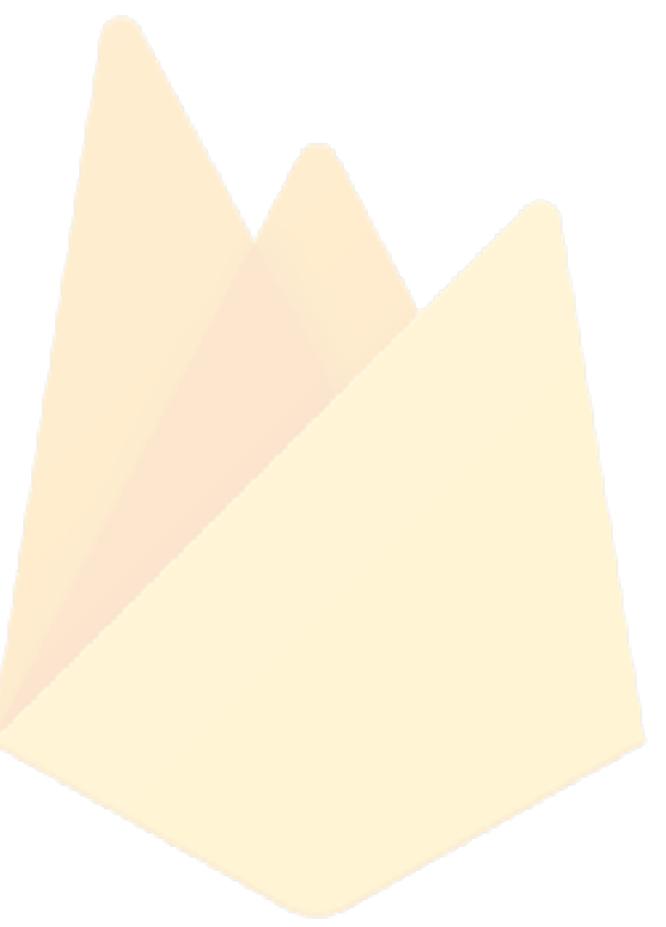


Upload para o Android Studio

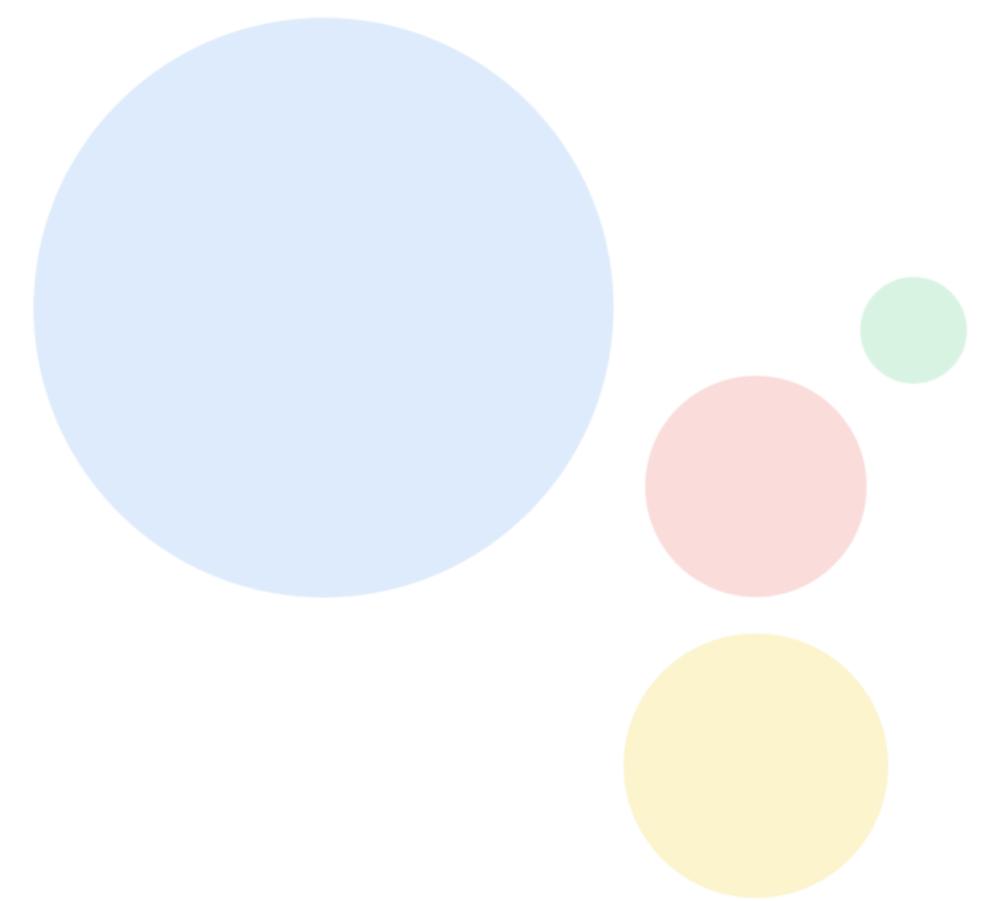
Uma vez que as credenciais estejam configuradas



android
things



android
things



Supported APIs	Unavailable APIs
Awareness	AdMob
Cast	Android Pay
Google Analytics for Firebase	Drive
Firebase Cloud Messaging (FCM)	Firebase App Indexing
Firebase Crash Reporting	Firebase Authentication
Firebase Realtime Database	Firebase Dynamic Links
Firebase Remote Config	Firebase Invites
Firebase Storage	Firebase Notifications
Fit	Play Games
Instance ID	Sign-In
Location	
Maps	
Nearby	
Places	
Mobile Vision	
SafetyNet	

Observação: Como regra geral, APIs que precisam de input do usuário ou credenciais de autenticação não são disponíveis.

lionsdemo – Realtime Database

Secure | https://console.firebaseio.go...

Firebase lionsdemo

Ir para a documentação

Overview

DADOS REGRAS BACKUPS USO

Analytics

DESENVOLVER

Authentication

Database

Storage

Hosting

Functions

Test Lab

Crash Reporting

Performance

Realtime Database

DADOS REGRAS BACKUPS USO

https://liondemo2017.firebaseio.com/

liondemo2017

- number: 12
- releaseInterval: 1000

Luis

Secure <https://console.firebaseio.google.com/u/0/project/liondemo2017/functions/list>

Firebase liondemo [Ir para a documentação](#) [:](#)

[Overview](#) [Analytics](#)

Functions BETA

[PAINEL](#) [REGISTROS](#) [USO](#)

Período de faturamento atual [▼](#)
Aug 1 - Aug 31, 2017 (BRT)

Função	Evento	Execuções	Tempo médio de execução
manual	<small>HTTP</small> Solicitar https://us-central1-liondemo2017.cloudfunctions.net/manual	37	45,31ms
webhook	<small>HTTP</small> Solicitar https://us-central1-liondemo2017.cloudfunctions.net/webhook	400	52,53ms

DESENVOLVER

- [Authentication](#)
- [Database](#)
- [Storage](#)
- [Hosting](#)
- [Functions](#)
- [Test Lab](#)
- [Crash Reporting](#)
- [Performance](#)

EXPANDIR

- [Notifications](#)
- [Remote Config](#)
- [Dynamic Links](#)

GANHAR

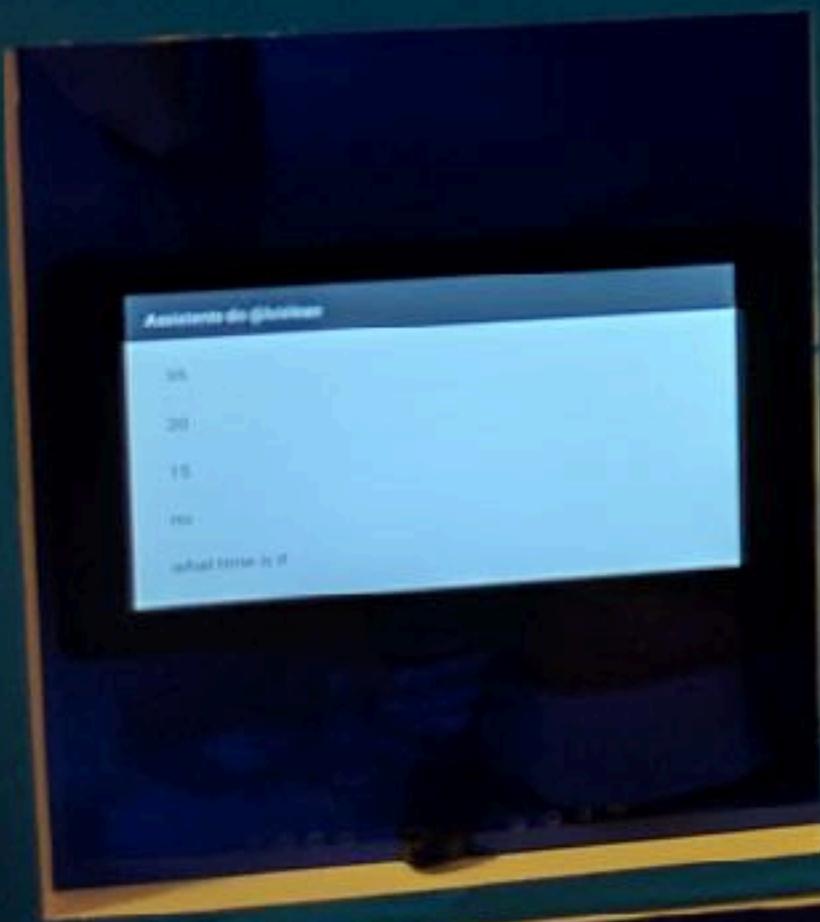
- [AdMob](#)



UDACITY

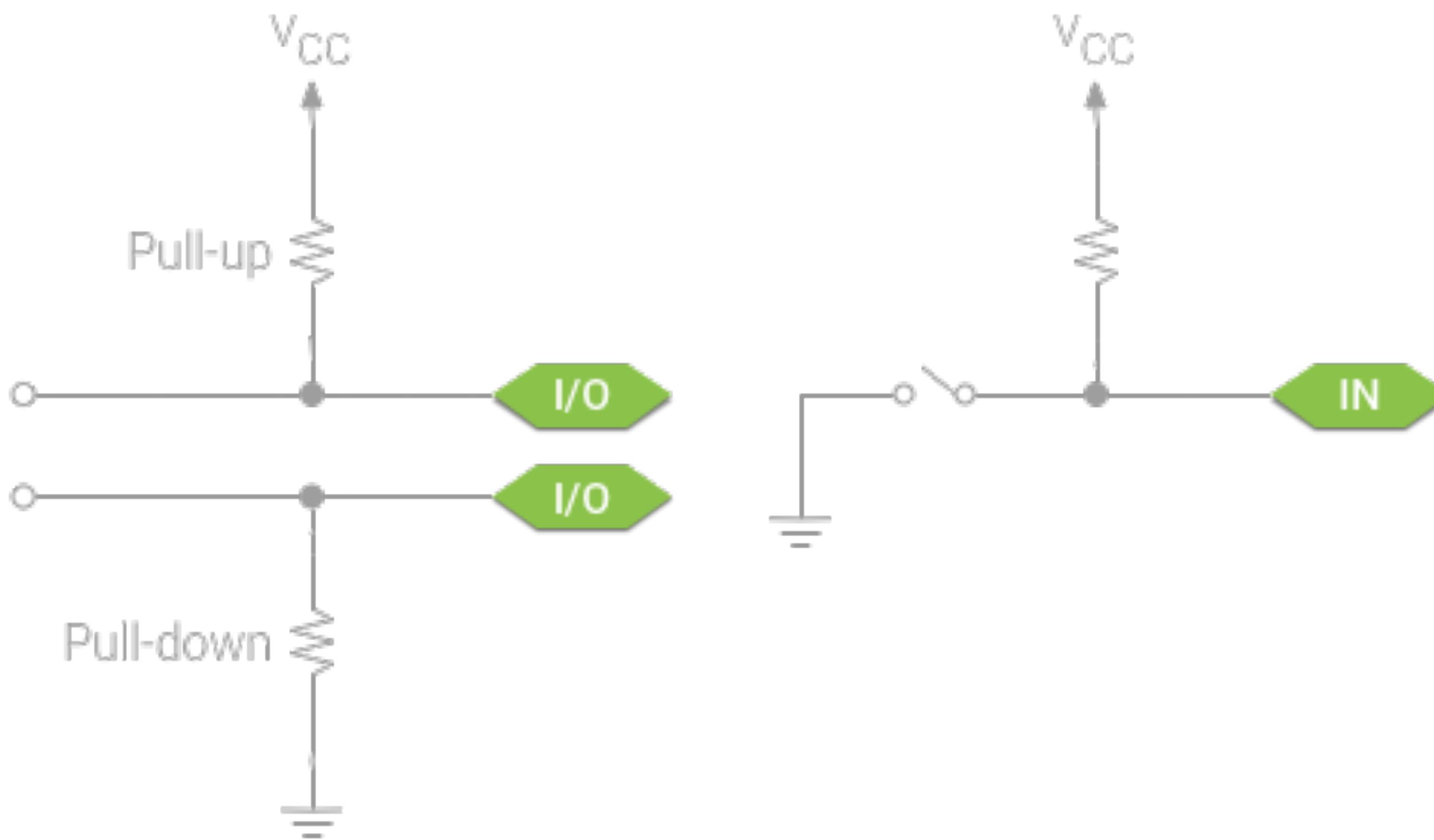
Google Assistant & Android Things

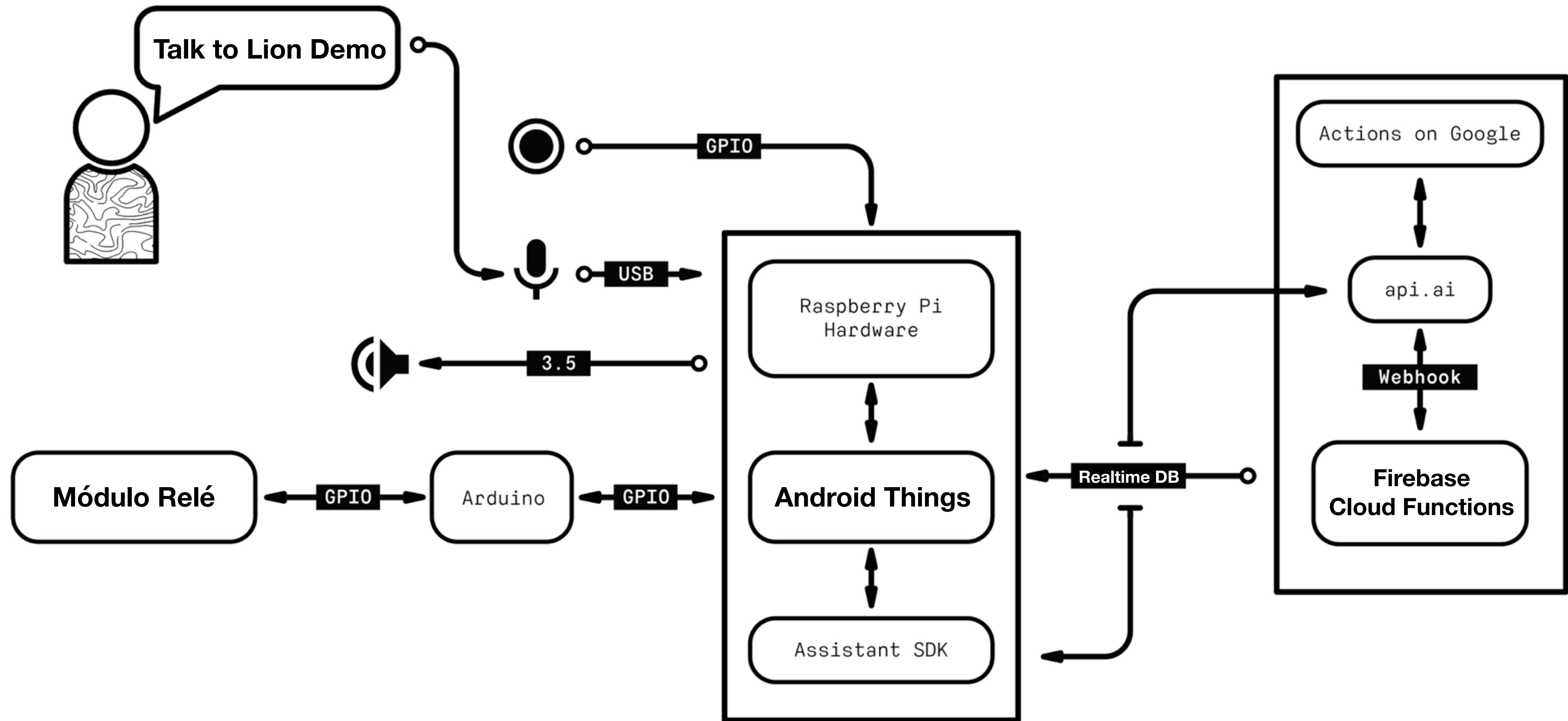
Diga "talk to lion demo"



	J8		
3.3V	1	Orange	2
BCM2	3	Cyan	4
BCM3	5	Cyan	6
BCM4	7	Green	8
Ground	9	Black	10
BCM17	11	Green	12
BCM27	13	Green	14
BCM22	15	Green	16
3.3V	17	Orange	18
BCM10	19	Purple	20
BCM9	21	Purple	22
BCM11	23	Purple	24
Ground	25	Black	26
	27	White	28
BCM5	29	Green	30
BCM6	31	Green	32
BCM13	33	Brown	34
BCM19	35	Blue	36
BCM26	37	Blue	38
Ground	39	Black	40

BCM17: Módulo de Relé
BCM23: Botão
BCM25: LED - Arduino





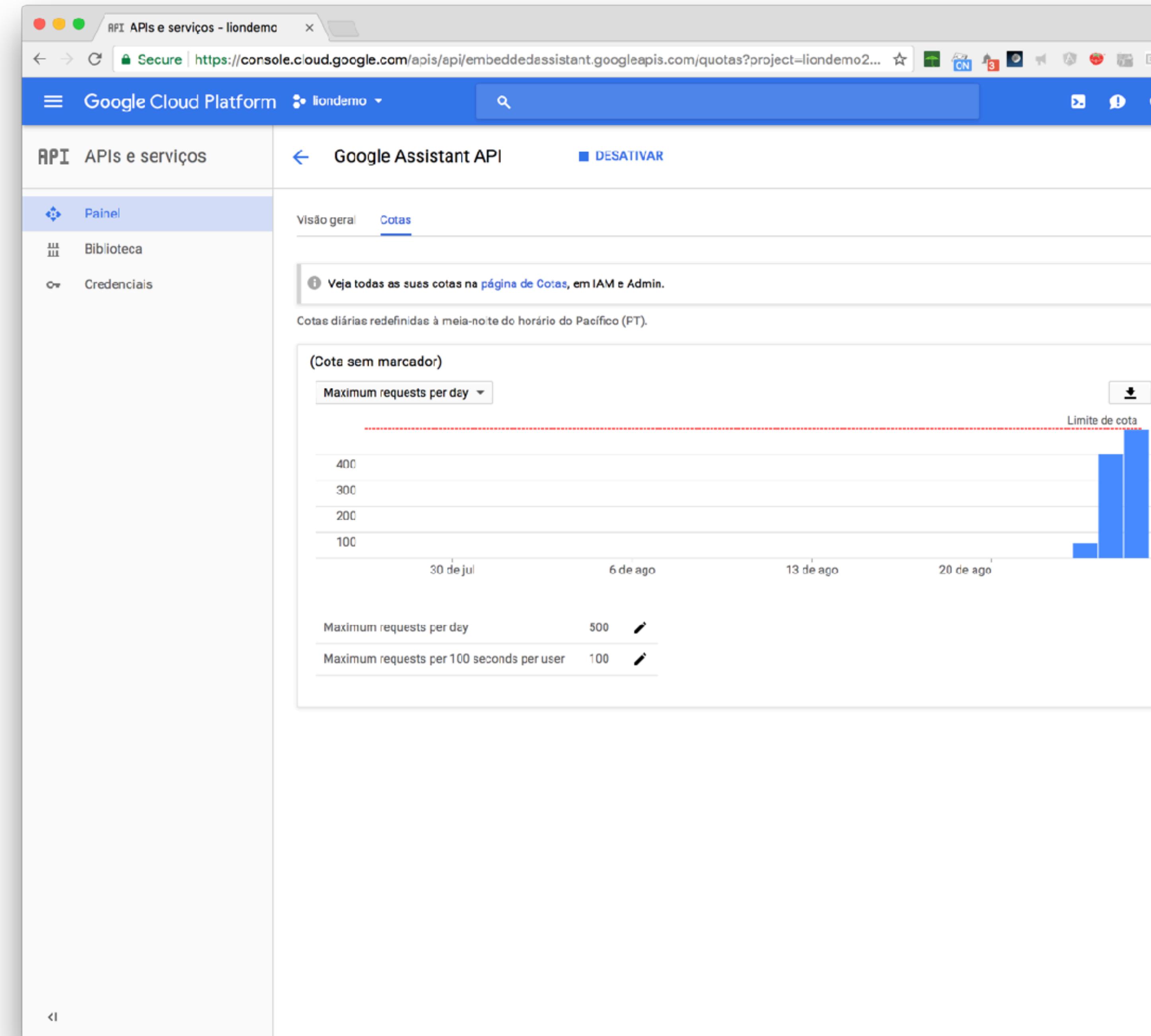


APERTE O BOTAO
PARA TER WIFI

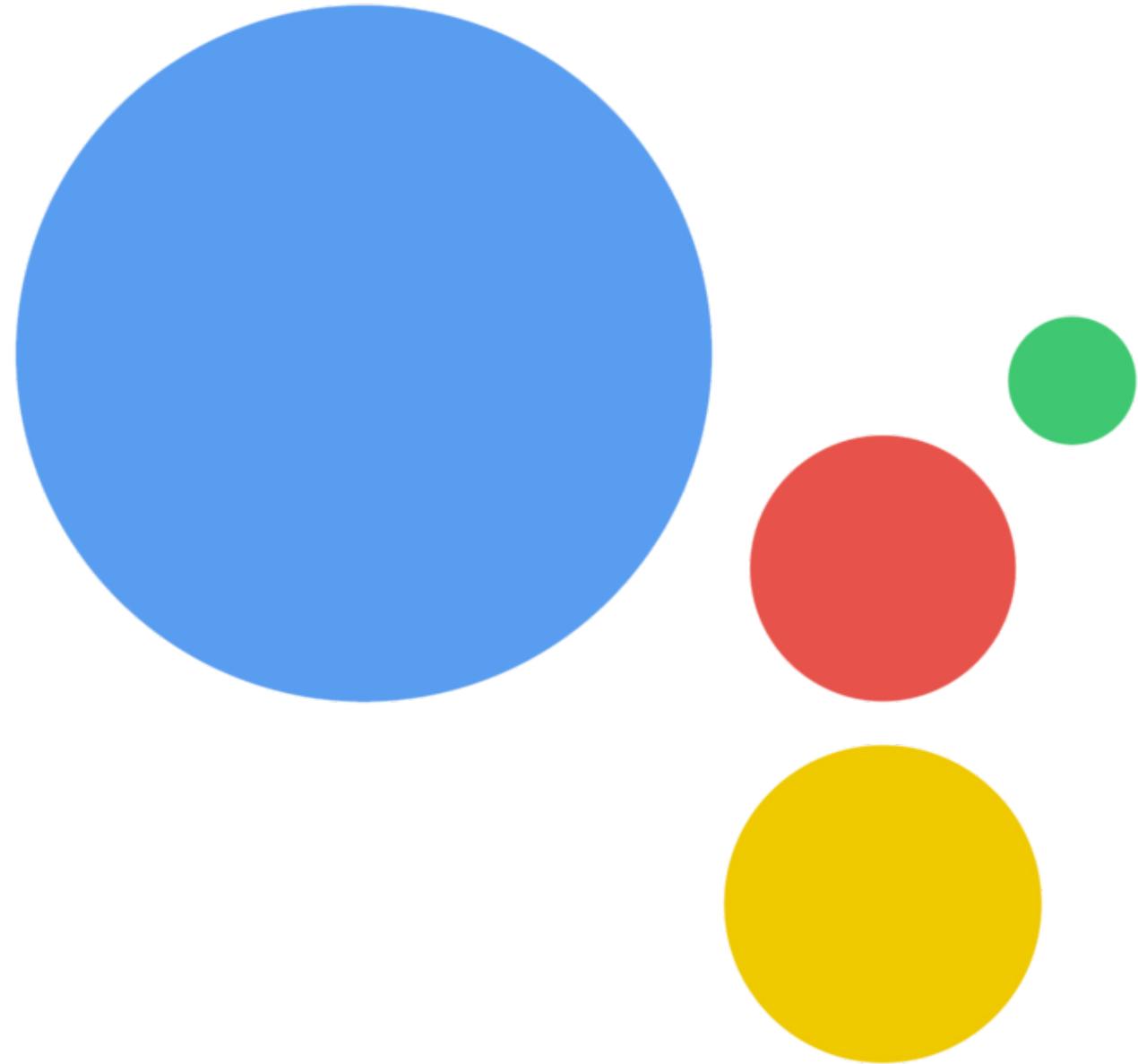


Veja a cota

Ela pode quebrar o brinquedo



android
things



leao@udacity.com

github.com/luisleao/candy_assistant