

DIY : Google Action



LESSON 2 – ADDING INTENTIONS



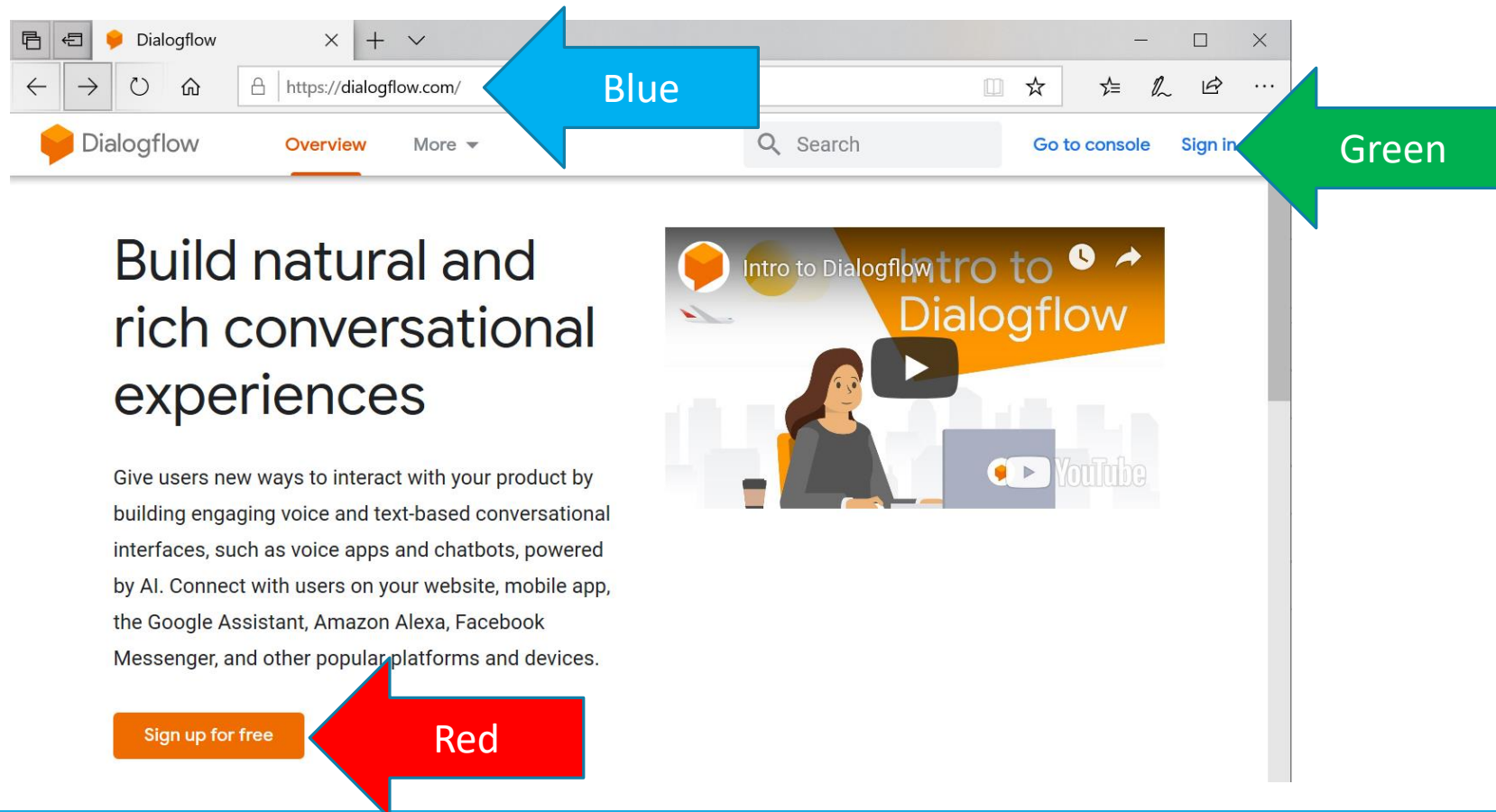
Create My Voice

Goals

- 📌 Make your Google Home Smart Speaker or your Smart Phone (Android or iOS) with Google Assistant respond to two additional questions.
- 📌 Adding Intentions – Google Action
 - Training Phrases
 - Responses



- Open a browser tab (i.e. Chrome, Firefox, Edge, etc.)
- Navigate to <https://dialogflow.com> [blue arrow]
 - If you just see “Go to console” next to the [green arrow], then you are already signed in, just click “Go to Console” [green arrow]
 - Otherwise, you will need to “Sign In” again.



- You will now be on the Intents page. The agent should default to “Hello-World”, if not, use the dropdown to change the agent to the “Hello-World” agent we created in Lesson 1 [blue arrow]
- Let’s create another Intention, select “Create Intent” [red arrow]

The screenshot shows the Dialogflow Intents page. On the left is a navigation sidebar with the Dialogflow logo at the top. Below the logo, there's a dropdown menu showing 'Hello-World' and a language selector 'en'. The 'Intents' menu item is highlighted in blue, with a blue arrow pointing to it from the left. Below 'Intents' are other menu items: Entities, Knowledge [beta], Fulfillment, Integrations, Training, History, Analytics, Prebuilt Agents, and Small Talk. The main content area is titled 'Intents' and has a 'CREATE INTENT' button in the top right corner, with a red arrow pointing to it from the right. Below the button is a search bar labeled 'Search intents'. Underneath the search bar, there are two listed intents: 'Default Fallback Intent' and 'Default Welcome Intent'. In the center of the page, there is an information icon and the text: 'No regular intents yet. [Create the first one.](#)' Below this, it says: 'Intents are mappings between a user's queries and actions fulfilled by your software. [Read more here.](#)' At the bottom, it says: 'Before you start, check out [Prebuilt Agents](#), a collection of agents developed by the Dialogflow team.' On the right side of the page, there are two informational messages: 'Please use sentence.' and 'See how it works'.

- Let's create an Intention to handle your birthday, type "Birthday" [blue arrow]
- Now let's give Google some phrases that people may say when they want to know your birthday [red arrow]

The screenshot shows the Dialogflow console interface. On the left is a sidebar with navigation options: Hello-World, Intents (selected), Entities, Knowledge [beta], Fulfillment, Integrations, Training, History, Analytics, Prebuilt Agents, and Small Talk. The main area displays the 'Birthday' intent configuration. At the top, the text 'Birthday' is entered in the search bar, with a blue arrow pointing to it. Below the search bar are sections for Contexts, Events, and Training phrases. The 'Training phrases' section is expanded, showing a heading 'Train the intent with what your users will say' and a sub-heading 'Extract the action and parameters'. A red arrow points to the 'ADD TRAINING PHRASES' button in the 'Training phrases' section. On the right side, there is a 'Try it now' button and a warning message: 'Please use test console abc sentence.' and a link 'See how it works in Google'.



- Add the training phrases “what is the date of your birth?”, “when were you born?”, and “when is your birthday?” [blue arrow]
- Scroll down till you see “Responses” [red arrow]

The screenshot displays the Dialogflow console interface for an agent named 'Birthday'. On the left sidebar, the 'Intents' menu item is highlighted with a blue arrow labeled 'Blue'. The main content area shows the 'Training phrases' section with three phrases: 'Add user expression', 'what is the date of your birth?', 'when were you born?', and 'when is your birthday?'. A red arrow labeled 'Red' points to the 'Responses' section at the bottom of the page.

- Select “Add Response” [blue arrow]

The screenshot shows the Dialogflow console interface for a project named 'Hello-World'. The left sidebar contains navigation options: Intents (selected), Entities, Knowledge (beta), Fulfillment, Integrations, Training, History, Analytics, Prebuilt Agents, and Small Talk. The main content area is titled 'Birthday' and has a 'SAVE' button. It is divided into three sections: 'Action and parameters', 'Responses', and 'Fulfillment'. The 'Responses' section is expanded, showing a response titled 'Execute and respond to the user'. Below this response is a blue button labeled 'ADD RESPONSE', which is highlighted by a large blue arrow with the word 'Blue' written on it. To the right of the main content area, there is a 'Try it now' button and a note: 'Please use test console at sentence.' with a link to 'See how it works in Google'.



- Enter multiple ways to say your birthday [blue arrow]
- Now let's Save our work [red arrow]
- And then let's add one more intention. Click the + next to Intents [green arrow]

The screenshot displays the Dialogflow console for a project named 'Birthday'. The left sidebar contains navigation options: Home, Intents (+), Entities (+), Knowledge [beta], Fulfillment, Integrations, Training, History, Analytics, Prebuilt Agents, and Small Talk. The main content area is titled 'ADD PARAMETERS AND ACTION' and shows the configuration for the 'Birthday' intent. Under the 'Responses' section, there are four text response variants: 1. 'I was born January 30th', 2. 'I was born on the 30th day of January', 3. 'I'm really old', and 4. 'Enter a text response variant'. Below the responses is an 'ADD RESPONSES' button and a toggle switch for 'Set this intent as end of conversation'. The right sidebar contains a 'Please us sentence.' section and a 'See how i' link. A blue arrow points to the 'Responses' section, a green arrow points to the '+ Intents' button, and a red arrow points to the 'SAVE' button.



- Let's create an Intention to handle your age, type "Age" [blue arrow]
- Enter training phrases on what someone may say to ask for your age. Type training phrases "What is your age?" and "How old are you?" [red arrow]
- Scroll down to Responses [green arrow]

The screenshot displays the Dialogflow console interface. On the left is a navigation sidebar with the 'Intents' menu item highlighted in blue. A red arrow points to the 'Intents' menu item. The main content area shows the configuration for an intent named 'Age', which is also highlighted with a blue arrow. The 'Training phrases' section contains two entries: 'What is your age?' and 'How old are you?'. A red arrow points to this section. The 'Action and parameters' section is partially visible at the bottom, with a green arrow pointing to it. The right sidebar contains a 'Try it now' button and informational text.

REQUIRED	PARAMETER NAME	ENTITY	VALUE	IS LIST
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- Enter multiple ways to say how old you are [blue arrow]
- And then save your work [red arrow]

The screenshot shows the Dialogflow console interface. On the left is a sidebar with navigation options: Hello-World, Intents (highlighted with a blue arrow), Entities, Knowledge [beta], Fulfillment, Integrations, Training, History, Analytics, Prebuilt Agents, and Small Talk. The main area is titled 'Age' and contains a parameter table, a 'Responses' section with a list of text responses, and a 'SAVE' button in the top right corner (highlighted with a red arrow). A 'Please use sentence.' warning is visible on the right side.

REQUIRED	PARAMETER NAME	ENTITY	VALUE	IS LIST
<input type="checkbox"/>	Enter name	Enter entity	Enter value	<input type="checkbox"/>

+ New parameter

Responses

DEFAULT GOOGLE ASSISTANT HANGOUTS +

Text response

- 1 I'm 55
- 2 I'm 55 years old
- 3 55
- 4 I'll be 56 years old next January
- 5 Enter a text response variant

ADD RESPONSES

Set this intent as end of conversation



- Now to transfer the updates to Actions on Google. Select the Integration tab [blue arrow]
- Then select “Integration Settings” [red arrow]

The screenshot shows the Dialogflow web interface. On the left is a navigation sidebar with the Dialogflow logo at the top. Below the logo, there are several menu items: 'Hello-World' (with a dropdown arrow and a gear icon), 'en' (with a plus icon), 'Intents' (with a plus icon), 'Entities' (with a plus icon), 'Knowledge [beta]' (with a plus icon), 'Fulfillment' (with a plus icon), 'Integrations' (highlighted in blue), 'Training' (with a plus icon), 'History' (with a plus icon), 'Analytics' (with a plus icon), 'Prebuilt Agents' (with a plus icon), and 'Small Talk' (with a plus icon). A large blue arrow labeled 'Blue' points to the 'Integrations' menu item. The main content area is titled 'Integrations' and features a 'Try it now' button in the top right corner. Below this, there is a large card for 'Google Assistant' with the Google Assistant logo and the text 'Build Actions for the Google Assistant to reach users through Google Home, Android phones, and more devices.' Below the card is a link labeled 'INTEGRATION SETTINGS' in blue. A large red arrow labeled 'Red' points to this link. Below the Google Assistant card is a grid of eight integration cards, each with a toggle switch: 'Web Demo', 'Facebook Messenger', 'Dialogflow Phone Gateway BETA', 'Hangouts Chat', 'Slack', 'Viber', 'Twitter', and 'Twilio IP'. On the right side of the page, there is a section with a warning icon and the text 'Please use test consc sentence.' and a link with the Google Assistant logo and the text 'See how it works in G'.



- We just added two new intentions, let's add one of them as an Implicit Invocation [blue arrow]
- We will see the difference between an Explicit Invocation and an Implicit Invocation when we test in a few minutes.

The screenshot shows the Dialogflow console interface for configuring a Google Assistant app. The left sidebar contains navigation options: Hello-World, Intents, Entities, Knowledge [beta], Fulfillment, Integrations (highlighted), Training, History, Analytics, Prebuilt Agents, and Small Talk. The main content area is titled 'Google Assistant' and features a blue information banner at the top. Below this, there are two sections: 'Discovery' and 'Implicit invocation'. The 'Discovery' section includes an 'Explicit invocation' field with a dropdown menu showing 'Default Welcome Intent' and a 'Sign in required' checkbox. The 'Implicit invocation' section includes an 'Add intent' button and a 'Sign in required' checkbox. A blue arrow points to the 'Add intent' button. At the bottom of the configuration panel, there are buttons for 'CLOSE', 'TEST', and 'MANAGE ASSISTANT APP'.

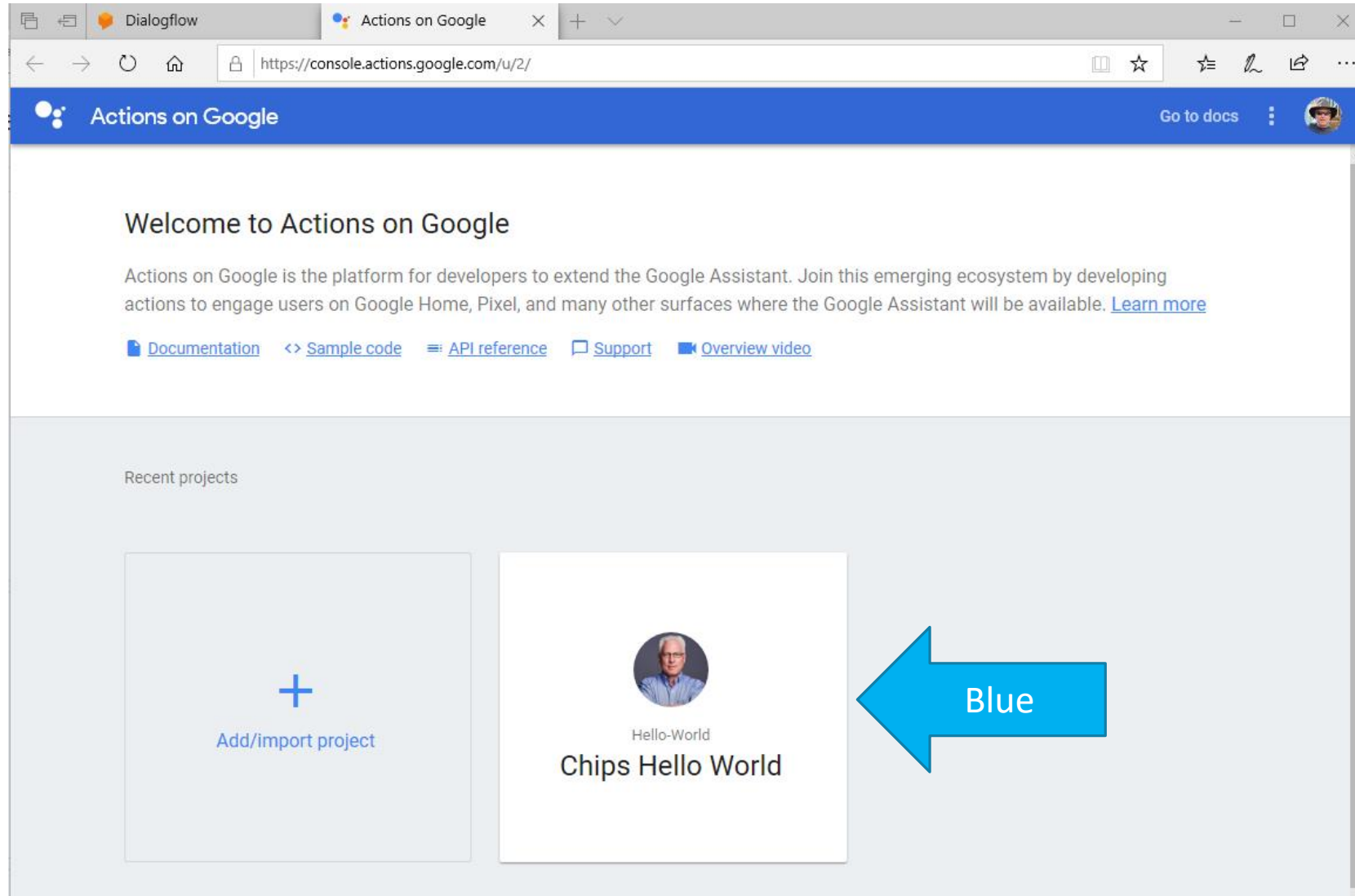


- Add Birthday and Age as Implicit intentions [blue arrow]
- Then click “Test” to update Actions on Google with our changes [red arrow]

The screenshot shows the Dialogflow console interface. On the left, a sidebar contains navigation options: Hello-World, en, Intents, Entities, Knowledge [beta], Fulfillment, Integrations (highlighted), Training, History, Analytics, Prebuilt Agents, and Small Talk. The main content area displays the 'Google Assistant' configuration for 'Discovery'. It is divided into 'Explicit invocation' and 'Implicit invocation' sections. Under 'Explicit invocation', there is a 'Default Welcome Intent' with a 'Sign in required' checkbox. Under 'Implicit invocation', there are entries for 'Birthday' and 'Age', each with a 'Sign in required' checkbox. A blue arrow points to the 'Birthday' and 'Age' entries. At the bottom of the configuration panel, there are 'CLOSE' and 'TEST' buttons. A red arrow points to the 'TEST' button. A blue banner at the top of the configuration panel contains an information icon and text: 'After the next draft submission, changes made in the Dialogflow will no longer impact existing Action versions right away. Instead, you can continue iterating and improving your Action in draft mode and only make it available to users when you're ready'. Below this banner is a 'LEARN MORE' link.



- Select the Google Action we created in Lesson 1 [blue arrow]



- Select Build->Actions tab [blue arrow]
- Ensure that the new Intention is available [red arrow]

The screenshot shows the 'Actions on Google' console interface. The left sidebar contains navigation options: Overview, Setup, Invocation, Build, Theme customization, Test, Simulator, Deploy, Measure, and Advanced Options. The 'Build' section is expanded, and the 'Actions' tab is selected, highlighted by a blue arrow labeled 'Blue'. The main content area displays the 'Actions' page for the 'English' language. It shows a list of built actions with columns for Name, Fulfillment type, and Fulfillment tool. The first action is 'actions.intent.MAIN', which is highlighted by a red arrow labeled 'Red'. Below the list, there is a tip and a button to 'INTEGRATE ACTIONS FROM DIALOGFLOW'.

Name	Fulfillment type	Fulfillment tool
actions.intent.MAIN	Conversational	Dialogflow
Birthday	Conversational	Dialogflow
Age	Conversational	Dialogflow



- Now let's test – select “Simulator” under Test [blue arrow]
- For Input [red arrow], it should default to “Talk to [invocation name]”, click on it and hit <enter>

The screenshot shows the Actions on Google Simulator interface. The top navigation bar includes the Actions on Google logo, the name of the action 'Hello-World', and a 'Go to docs' link. The left sidebar contains a menu with sections: Overview, Setup, Invocation, Build, Test, Deploy, Measure, and Advanced Options. The 'Test' section is expanded, showing 'Simulator' as the selected option. The main content area is divided into two panes. The left pane displays a graphic of two smartphones and text: 'Test your Actions by typing or saying "Talk to Chips Hello World" below or any device you're logged into with "chip@cedwards.net"'. Below this is a 'Suggested input' section with a button labeled 'Talk to Chips Hello World'. At the bottom, there is an 'Input' field with a dropdown menu and a microphone icon, containing the text 'Talk to Chips Hello World'. The right pane is titled 'CHANGE VERSION' and contains settings for 'Surface', 'Language' (set to 'English (United States)'), and 'Location' (set to 'Googleplex, Mountain View, CA 94043, United States'). Below these settings are tabs for 'DISPLAY', 'REQUEST', 'RESPONSE', 'AUDIO', 'DEBUG', and 'ERRORS'. The 'DISPLAY' tab is active, showing a large gray box with the text 'Visual will show up when you start to test'. A 'View logs' link is visible in the top right of the right pane.



- Because we didn't specify an intention, the explicit intention "Default Welcome Intent" responded [blue arrow]
- Now select 'cancel' to reset the Action [red arrow]

Actions on Google Hello-World Go to docs

Overview Simulator

Setup

Invocation

Build

Theme customization

Test

Simulator

Deploy

Directory Information, Location Tar...

Measure

Analytics

Advanced Options

Account Linking, Brand Verification,...

Chips Hello World

Talk to Chips Hello World

Okay. Let's get the test version of Chips Hello World. Good day! What can I do for you today?

CHANGE VERSION

Surface Language Location

Phone English (United States) Googleplex, Mountain View, CA..

DISPLAY REQUEST RESPONSE AUDIO DEBUG ERRORS

Chips Hello World

Okay. Let's get the test version of Chips Hello World. Good day! What can I do for you today?

Suggested input

cancel

Input

Try typing or saying "Talk to Chips Hello W



- You should have heard a sound [blue arrow]
- And the Suggested Input should be back to the initial phrase [red arrow]

The screenshot shows the 'Actions on Google' Simulator interface. The top navigation bar includes 'Actions on Google', 'Hello-World', and 'Go to docs'. The left sidebar contains navigation options: Overview, Setup, Invocation, Build, Deploy, Measure, and Advanced Options. The main content area is titled 'Simulator' and displays a conversation log. A blue arrow points to the conversation log, and a red arrow points to the 'Suggested input' section. The right side of the interface shows configuration options for Surface (Phone), Language (English (United States)), and Location (Googleplex, Mountain View, CA..). Below these are tabs for DISPLAY, REQUEST, RESPONSE, AUDIO, DEBUG, and ERRORS. A 'Chips Hello World' window is visible in the DISPLAY tab.



- Let's try the implicit intention by typing "ask [invocation name] what's your birthday" [blue arrow]
- The Invocation Name in the example below is "Chips Hello World", change to your Invocation Name

Actions on Google Hello-World

Go to docs

Overview

Simulator

Setup

Invocation

Build

Actions

Theme customization

Test

Simulator

Deploy

Directory Information, Location Tar...

Measure

Analytics

Advanced Options

Account Linking, Brand Verification,...

Talk to Chips Hello World

Sure. Here's the test version of Chips Hello World. Hi! How are you doing?

<earcon>

'Chips Hello World' left the conversation

Suggested input

Talk to Chips Hello World

ask chips hello world whats your birthday

CHANGE VERSION

Surface Language Location

English (United States) Googleplex, Mountain View, CA 94043, United States

DISPLAY REQUEST RESPONSE AUDIO DEBUG ERRORS

View logs

Chips Hello World

Blue



Create My Voice

- You will hear one of the Responses you provided [blue arrow]
- Once the Action has been started, you don't need to specify the Invocation Name again until the conversation is ended, so let's just ask "How old are you?"

The screenshot displays the 'Actions on Google' Simulator interface. The left sidebar contains navigation options: Overview, Setup, Build, Test, Deploy, and Analytics. The main area is titled 'Chips Hello World' and shows a simulated conversation. A blue arrow points to the response 'Okay. Let's get the test version of Chips Hello World. I'm really old.' A red arrow points to the input field containing the text 'how old are you?'. The right panel shows configuration options for Surface, Language (English (United States)), and Location (Googleplex, Mountain View, CA 94043, United States). Below this are tabs for DISPLAY, REQUEST, RESPONSE, AUDIO, DEBUG, and ERRORS, with a 'View logs' link.



- Since the conversation was still active, Google returned one of our Responses to the Age intention [blue arrow]

The screenshot displays the 'Actions on Google' Simulator interface. The main window shows a conversation with 'Chips Hello World'. The conversation history includes:

- User: Talk to Chips Hello World
- Assistant: Okay. Getting the test version of Chips Hello World. Greetings! How can I assist?
- User: ask chips hello world whats your birthday?
- Assistant: Okay. Let's get the test version of Chips Hello World. I'm really old
- User: how old are you?
- Assistant: I'm 55

A blue arrow points to the Assistant's response 'I'm 55'. The right-hand panel shows the 'CHANGE VERSION' settings (Surface, Language: English (United States), Location: Googleplex, Mountain View, CA 94043, United States) and the 'DISPLAY' tab, which shows a preview of the 'Chips Hello World' app with the text 'I'm 55'.



Recap

- After completing Lessons 1&2, you have successfully:
 - Set up and Used DialogFlow and Actions on Google
 - Created a Google Action (aka Voice App) with your unique Invocation Name
 - Configured a Google Action which can greet you, and respond when asked for your age and birthday



THANK YOU!

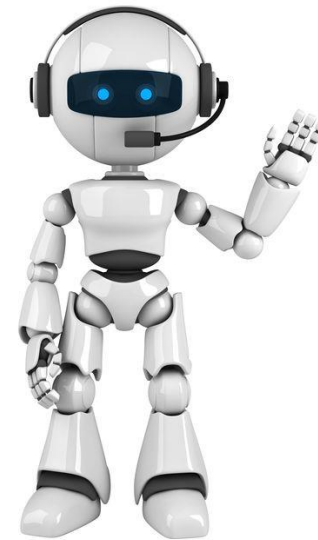
CHIP EDWARDS

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“HEY GOOGLE, TALK TO CREATE MY VOICE”

“ALEXA, START CREATE MY VOICE”



Create My Voice