

DIY : Google Action



LESSON 1 – “HELLO WORLD”



Create My Voice

Goals

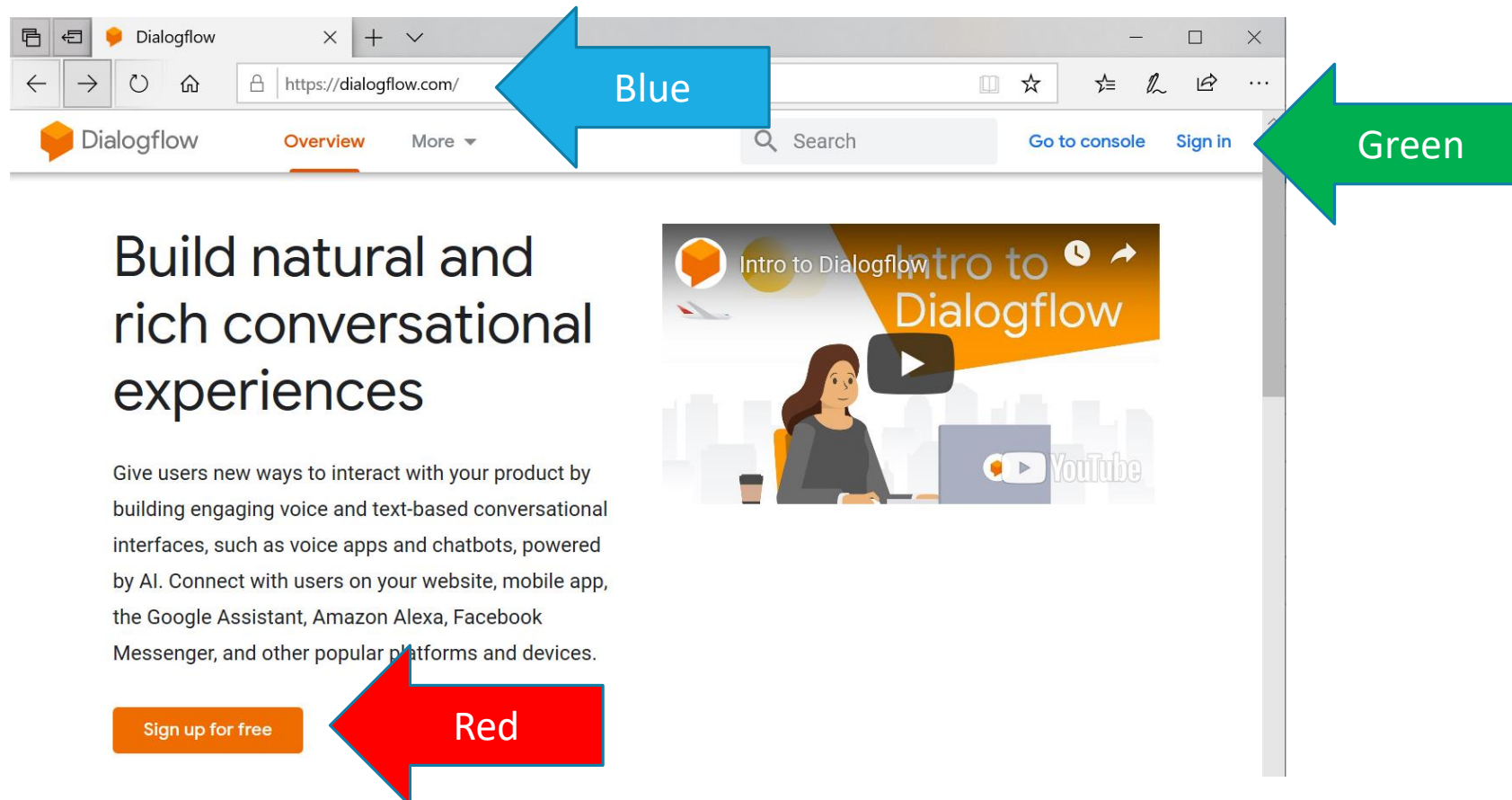
- 👤 Make your Google Home Smart Speaker or your Smart Phone, (Android or iOS) with Google Assistant, give a greeting.

- 👤 Setup the Google Action Tools
 - “Dialogflow”
 - “Actions on Google”

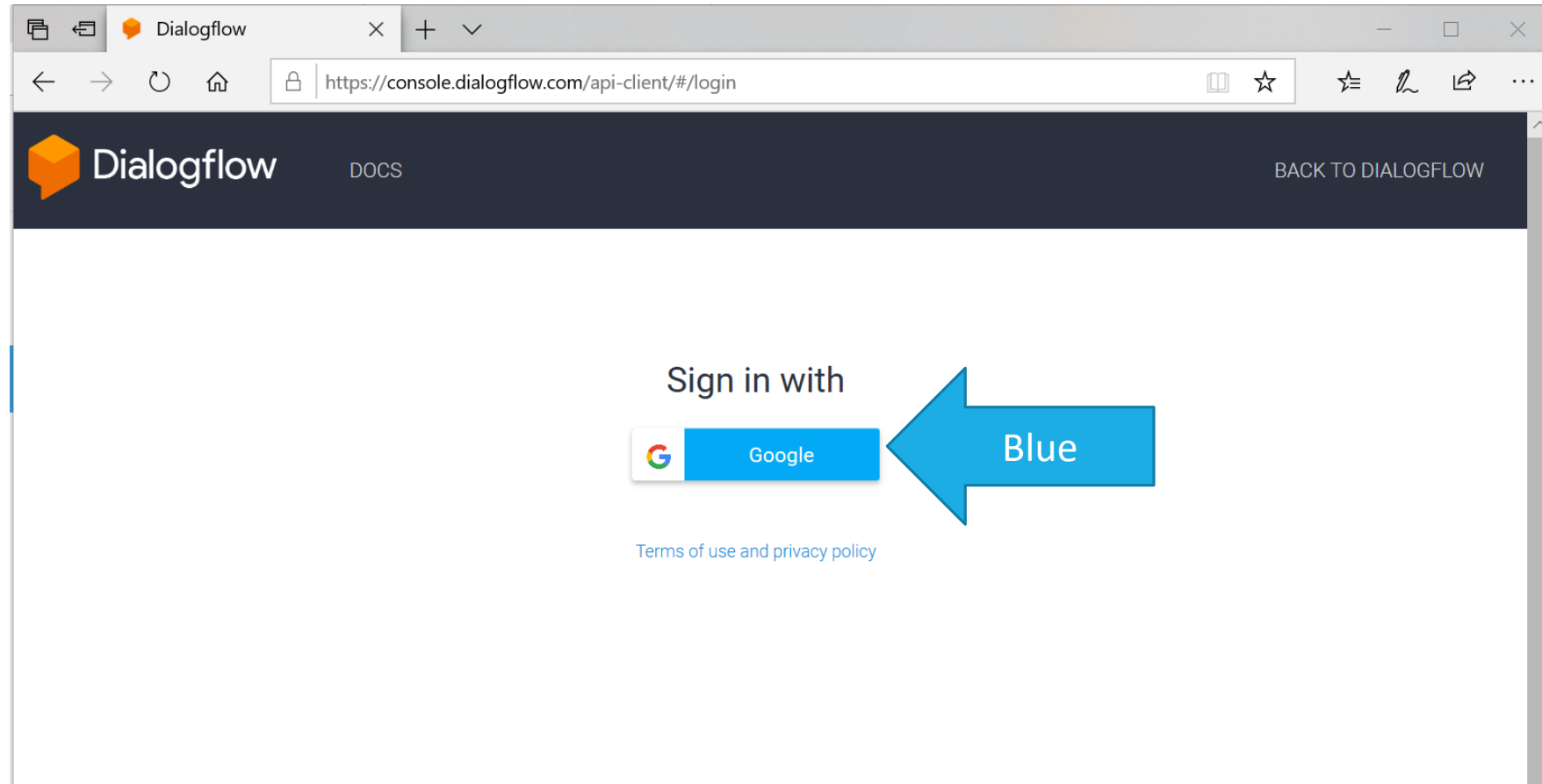
- 👤 Create your First Voice App – Google Action



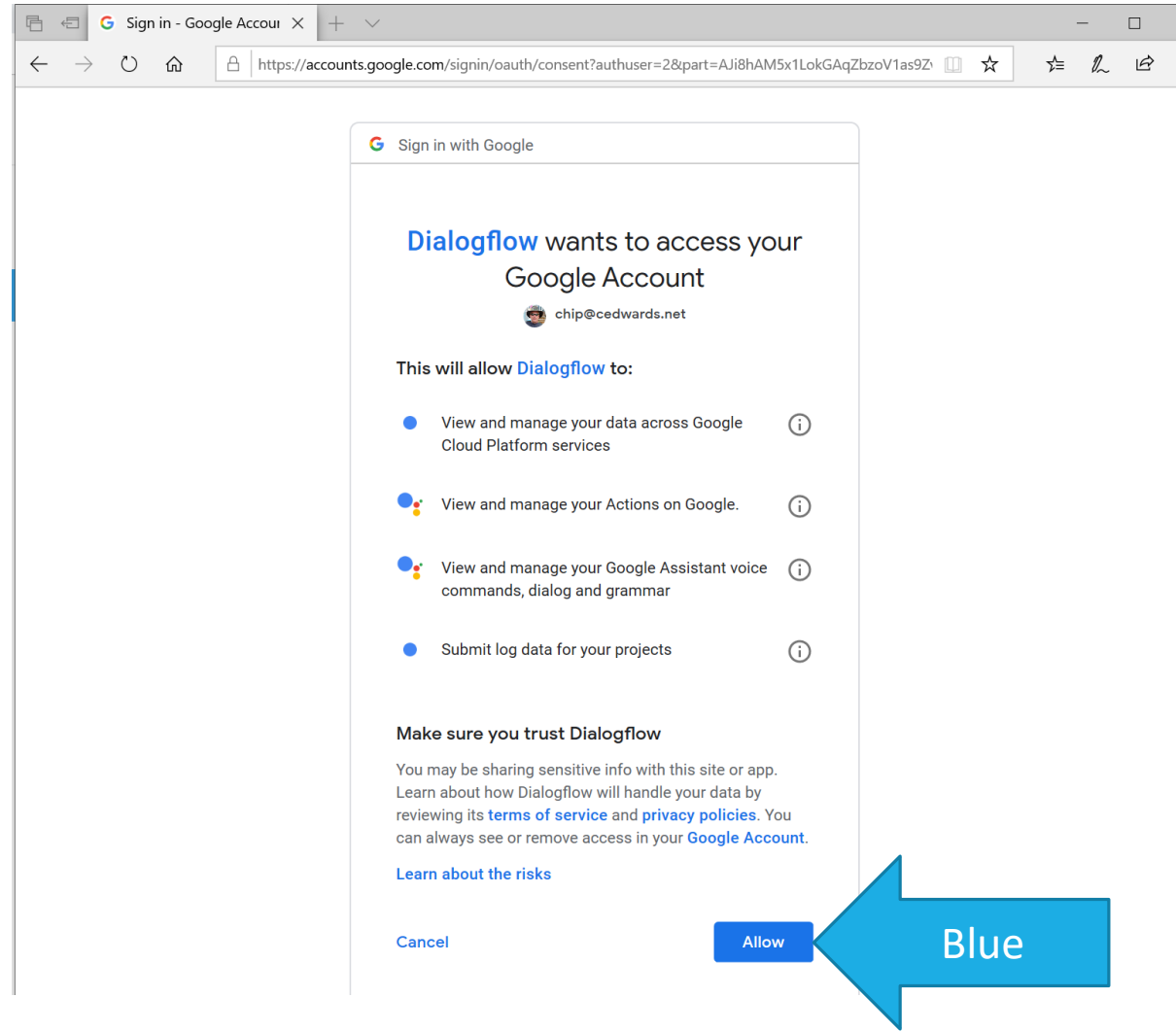
- Open a browser tab (i.e. Chrome, Firefox, Edge, etc.)
- Navigate to <https://dialogflow.com> [blue arrow]
 - If this is your first time: Click “Sign up for free” [red arrow]
 - If you’ve already signed up with DialogFlow: Click “Sign In” [green arrow]
 - If you only see “Go to console” next to the green arrow, then you are already signed in, just click “Go to Console” [green arrow]



- Click - Sign in with your Google Account
- (If you don't already have a Google Account, you will need to create one)



- DialogFlow will need access to your Google Account, click “Allow”



- Agree to the terms of service (red arrow)
- Accept the Account Settings (blue arrow)

The screenshot shows the Dialogflow account settings page. At the top, there is a dark header with the Dialogflow logo, links for 'DOCS' and 'FORUM', and a 'BACK TO DIALOGFLOW' link. The main content area is titled 'Please review your account settings'. It includes a 'Country or territory' dropdown menu set to 'United States', an 'Email preferences' section with two unchecked checkboxes for 'News and tips' and 'Feedback and testing', and a 'Terms of Service' section with a checked checkbox 'Yes, I have read and accept the agreement.' Below this is a paragraph of text explaining the terms of service. At the bottom right, there is an 'ACCEPT' button. A large red arrow labeled 'Red' points to the 'Terms of Service' section, and a large blue arrow labeled 'Blue' points to the 'ACCEPT' button.

Dialogflow DOCS FORUM BACK TO DIALOGFLOW

Please review your account settings

Country or territory *

United States

Email preferences

Stay up-to-date with occasional emails from our team

- News and tips**
Learn about new features, enhancements and tips
- Feedback and testing**
Participate in surveys and pilots to improve Dialogflow

Terms of Service *

Yes, I have read and accept the agreement.

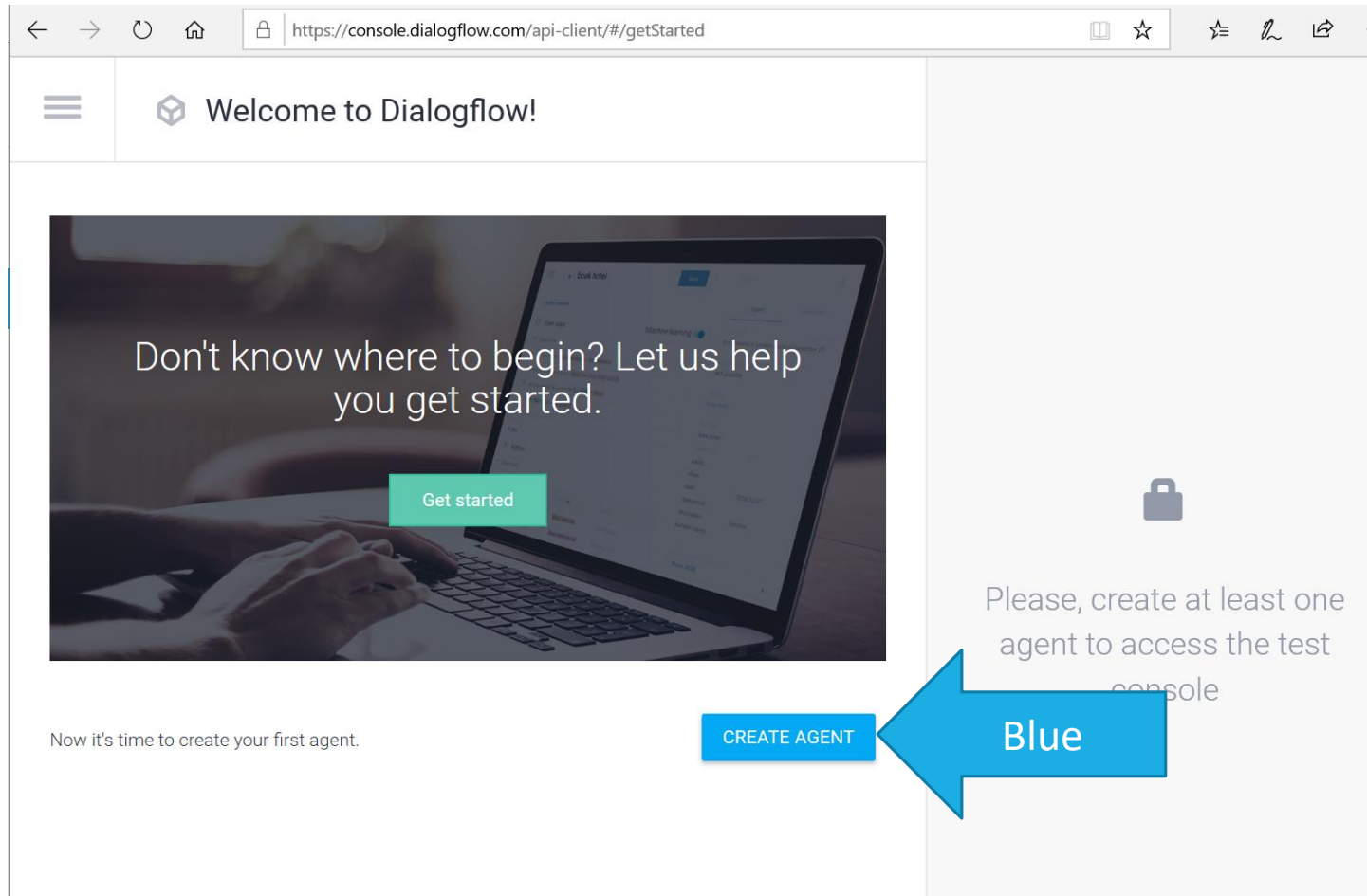
By proceeding and clicking the button below, you agree to adhere to the [Terms of Service](#).

Additionally, you may have access to certain Firebase services. You agree that your use of Firebase services will adhere to the applicable [Firebase Terms of Service](#). If you integrate any apps with Firebase on this project, by default, your Firebase Analytics data will enhance other Firebase features and Google products. You can control how your Firebase Analytics data is shared in your Firebase settings at anytime.

ACCEPT



- You are now using Dialogflow!
- Create your first Agent by selecting “Create Agent” [blue arrow]



- Enter the Agent Name “Hello-World” (no spaces) [red arrow]
- Select the appropriate Time Zone [green arrow]
- Create the Agent by selecting “Create” [blue arrow]

The screenshot shows a web form for creating an agent. At the top, there is a text input field containing "Hello-World". A large red arrow labeled "Red" points to this field. Below the name field are three sections: "DEFAULT LANGUAGE" with a dropdown menu set to "English – en", "DEFAULT TIME ZONE" with a dropdown menu set to "(GMT-5:00) America/New_York", and "GOOGLE PROJECT" with a dropdown menu set to "Create a new Google project". A large green arrow labeled "Green" points to the "DEFAULT TIME ZONE" dropdown. To the right of these fields is a "CREATE" button. A large blue arrow labeled "Blue" points to this button. On the right side of the form, there is a sidebar with an information icon and the text "Please use test console above to try sentence." and a link "Set-up Google Assistant integration." with the Google Assistant logo.



- Once Agent has been created, you will land on the Intents page. If your screen looks like the image below, you will need to select the three bars in the upper left hand corner to expand the side menu [blue arrow]
- If your screen looks like the next slide, your side menu is already expanded.

Blue

Intents

CREATE INTENT

Try it now

Search intents

- Default Fallback Intent
- Default Welcome Intent

No regular intents yet. [Create the first one.](#)

Intents are mappings between a user's queries and actions fulfilled by your software. [Read more here.](#)

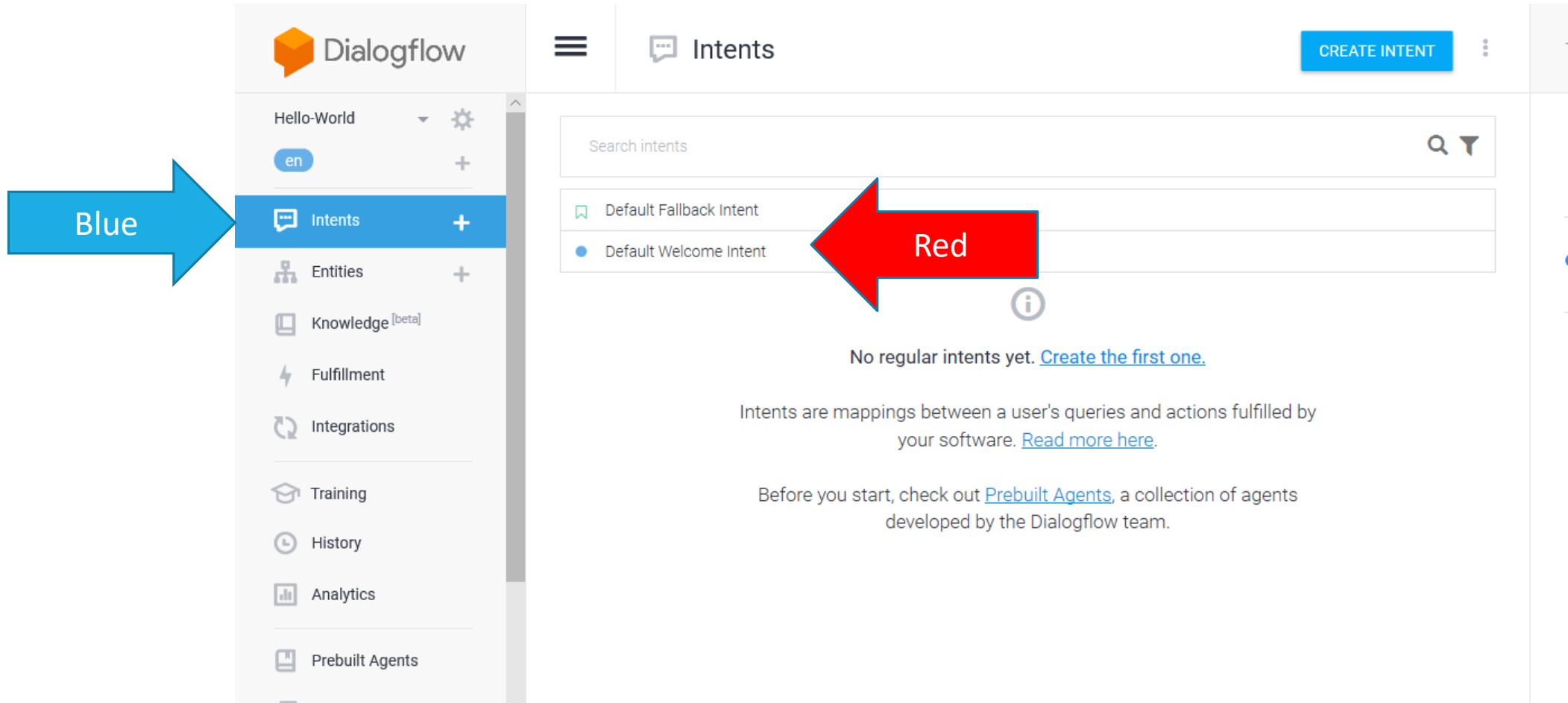
Before you start, check out [Prebuilt Agents](#), a collection of agents developed by the Dialogflow team.

Please use test console above to try a sentence.

See how it works in [Google Assistant.](#)



- You will now be on the Intents page with the Intents menu option highlighted [blue arrow]
- Click on the Intent “Default Welcome Intent” [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, it shows the project name 'Hello-World' and the language 'en'. The 'Intents' menu item is highlighted in blue, with a large blue arrow pointing to it from the left. Below 'Intents' are other menu items: 'Entities', 'Knowledge [beta]', 'Fulfillment', 'Integrations', 'Training', 'History', 'Analytics', and 'Prebuilt Agents'. The main content area is titled 'Intents' and has a 'CREATE INTENT' button in the top right. Below the title is a search bar labeled 'Search intents'. A list of intents is displayed below the search bar, including 'Default Fallback Intent' and 'Default Welcome Intent'. A large red arrow points to the 'Default Welcome Intent' entry. Below the list, there is a message: 'No regular intents yet. [Create the first one.](#)' followed by explanatory text: 'Intents are mappings between a user's queries and actions fulfilled by your software. [Read more here.](#)' and 'Before you start, check out [Prebuilt Agents](#), a collection of agents developed by the Dialogflow team.'



- On the Default Welcome Intent screen, notice the Training Phrases [blue arrow], if Google hears one of these phrases, it will invoke this Default Welcome Intent to provide a response.
- Scroll down [red arrow] to see the potential Responses

The screenshot displays the Dialogflow console for a 'Default Welcome Intent'. The left sidebar shows the navigation menu with 'Intents' selected. The main content area is divided into several sections: 'Contexts', 'Events' (with a 'Welcome' event), and 'Training phrases'. The 'Training phrases' section lists several user expressions: 'just going to say hi', 'heya', 'hello hi', 'howdy', and 'hey there'. A blue arrow points to this list, and a red arrow points to the 'Responses' section, which is partially visible at the bottom right of the screenshot.

- Notice the prefilled default Responses [blue arrow]
- We can add additional responses that will be chosen randomly [red arrow]

Dialogflow

Hello-World

en

Intents

Entities

Knowledge [beta]

Fulfillment

Integrations

Training

History

Analytics

Prebuilt Agents

Small Talk

Default Welcome Intent

SAVE

Try it now

Responses

DEFAULT HANGOUTS

Text response

- 1 Hi! How are you doing?
- 2 Hello! How can I help you?
- 3 Good day! What can I do for you today?
- 4 Greetings! How can I assist?
- 5 Enter a text response variant

ADD RESPONSES

Set this intent as end of conversation

Please use test c sentence.

See how it works



- Let's add the response "Hello World!" [red arrow]
- Be sure to Save if you've made any changes [green arrow]

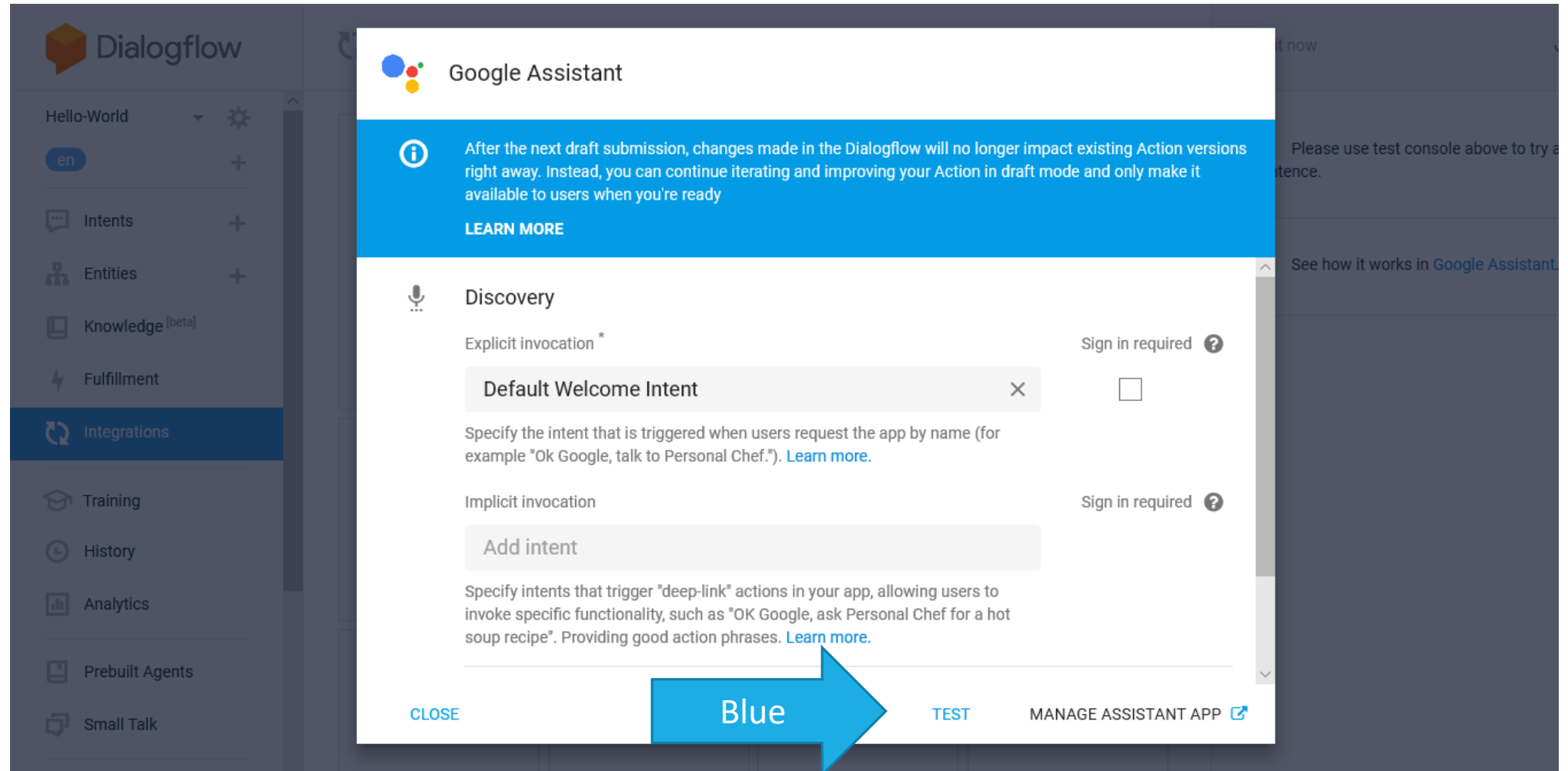
The screenshot shows the Dialogflow console interface. On the left is a navigation sidebar with the Dialogflow logo and various menu items: Hello-World, Intents (selected), Entities, Knowledge [beta], Fulfillment, Integrations, Training, History, Analytics, Prebuilt Agents, and Small Talk. The main area is titled 'Default Welcome Intent' and contains a 'Responses' section. Under 'Responses', there are tabs for 'DEFAULT' and 'HANGOUTS'. A list of 'Text response' variants is shown, with the fifth item being 'Hello World'. A red arrow points to this item. Below the list is an 'ADD RESPONSES' button and a toggle switch for 'Set this intent as end of conversation'. At the top right of the main area is a blue 'SAVE' button, with a green arrow pointing to it. On the right side of the console, there are informational messages and a 'See how it works' link.

- On the left side, select the Integrations menu item [blue arrow]
- Once the screen changes, then select the “Integration Settings” link [red arrow]

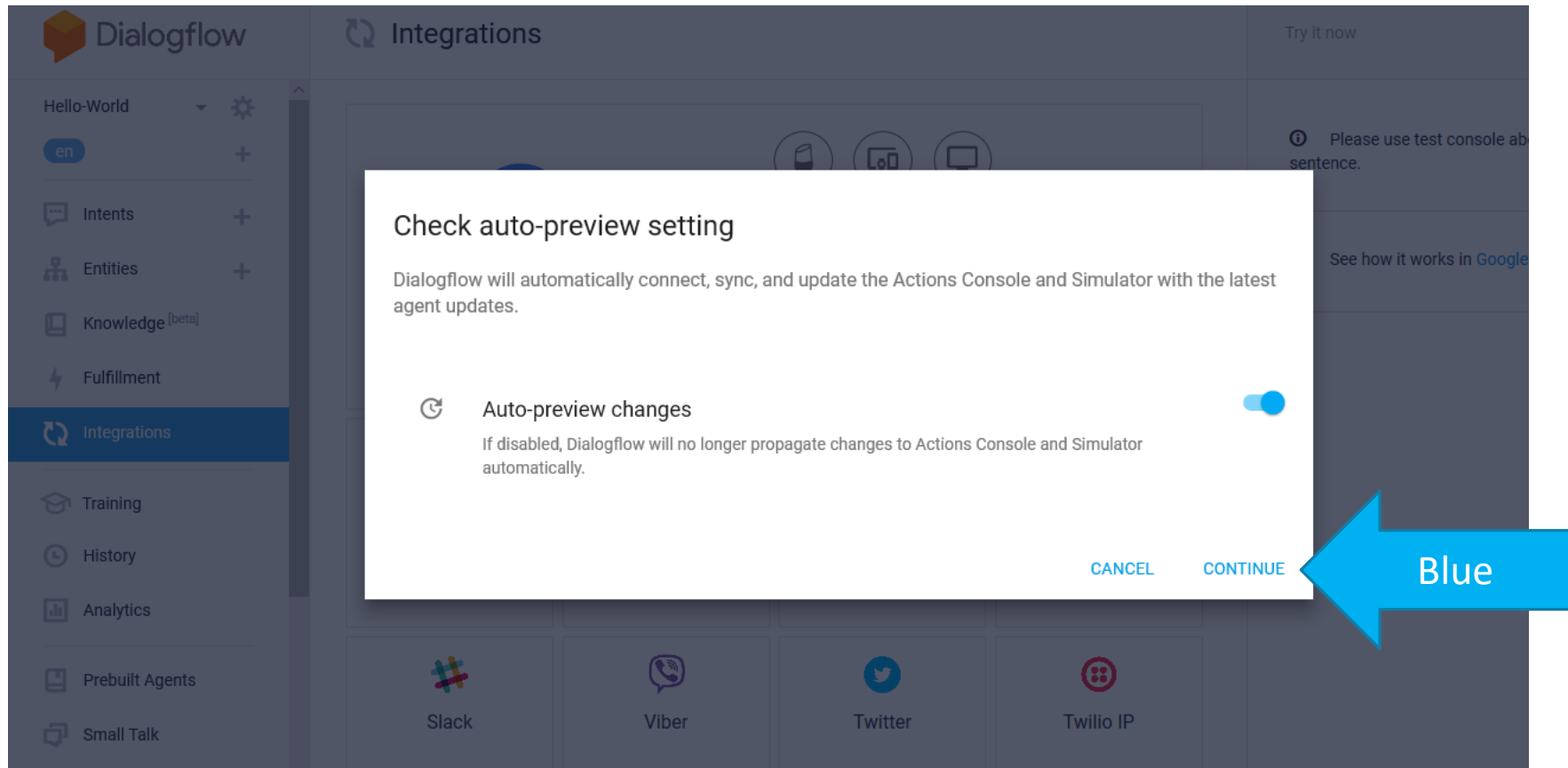
The screenshot shows the Dialogflow web interface. On the left is a vertical navigation menu with the Dialogflow logo at the top. The menu items are: Hello-World (with a dropdown arrow and a settings gear icon), en (with a plus icon), Intents (with a plus icon), Entities (with a plus icon), Knowledge [beta] (with a plus icon), Fulfillment (with a lightning bolt icon), Integrations (highlighted in blue), Training (with a graduation cap icon), History (with a clock icon), Analytics (with a bar chart icon), Prebuilt Agents (with a document icon), and Small Talk (with a speech bubble 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. Below the title is a large card for "Google Assistant" with its logo and a description: "Build Actions for the Google Assistant to reach users through Google Home, Android phone, and more devices." Below this card is a link labeled "INTEGRATION SETTINGS" in blue text, which is pointed to by a large red arrow labeled "Red". Below the Google Assistant card is a grid of eight integration cards: Web Demo (with a toggle switch), Facebook Messenger (with a toggle switch), Dialogflow Phone Gateway BETA (with a plus icon), Hangouts Chat (with a plus icon), Slack (with a plus icon), Viber (with a plus icon), Twitter (with a plus icon), and Twilio IP (with a plus icon). On the right side of the main content area, there is a "Please use test con sentence." message and a "See how it works in" link.



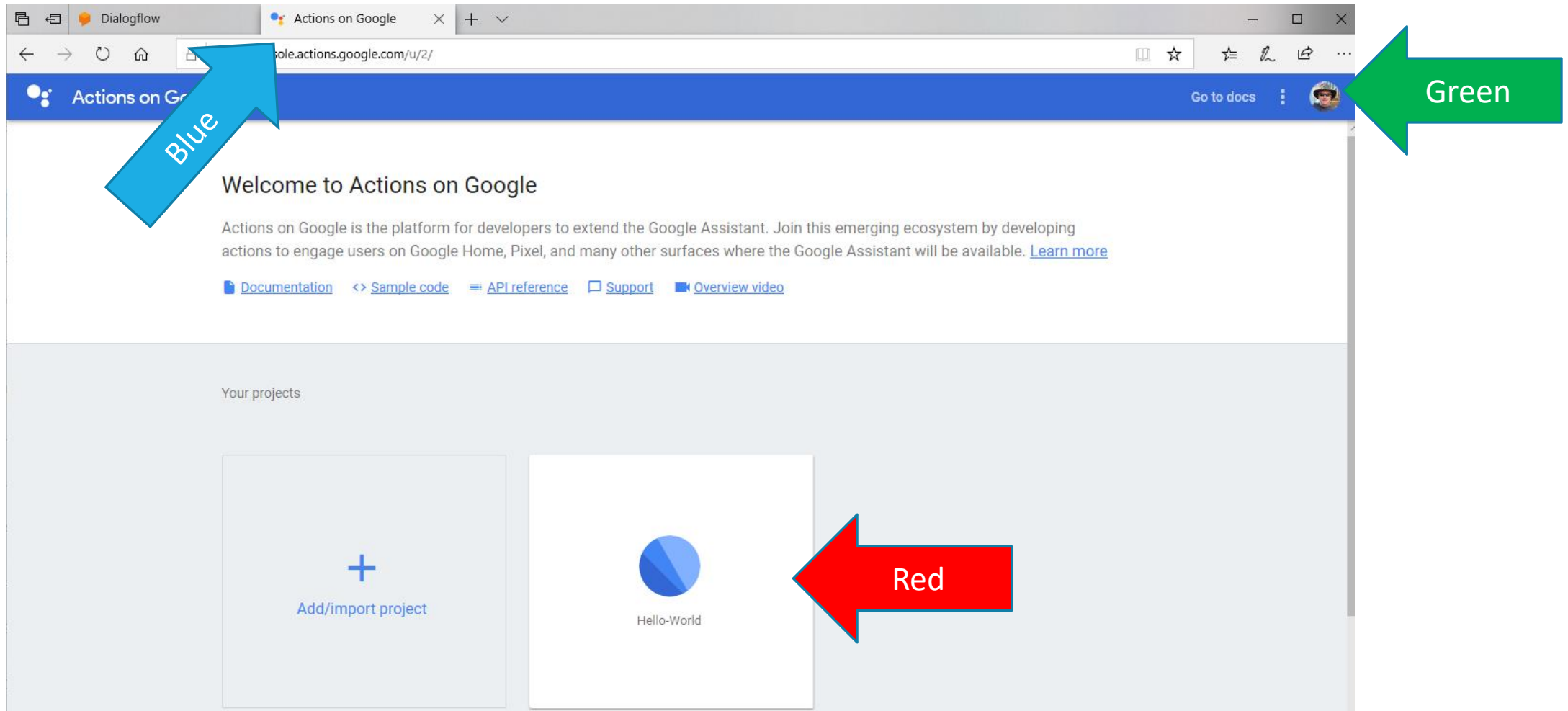
- This is the screen that will transfer your DialogFlow configuration into Actions on Google
- Select “Test” [blue arrow]



- Select “continue” [blue arrow]



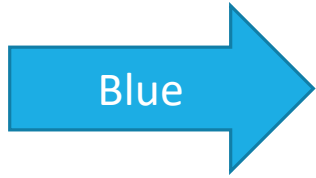
- You should now have a new tab open “Actions on Google” [blue arrow]
- And you should have a new Project called “Hello-World” (the name you provided in Dialogflow) [red arrow]
Select the project. If you received an error message saying “Try Again”, you will need to change your Google account by selecting the image in the upper right-hand corner [green arrow]



- Agree to the Actions on Google Terms of Service by selecting 'Yes' [blue arrow]
- Then select "Agree and Continue" [red arrow]



- First, select “Invocation” under Setup [blue arrow]



Actions on Google Hello-World Go to docs

Overview Overview

Setup
Invocation

Build
Actions, Theme Customization

Test
Simulator

Deploy
Directory Information, Location Tar...

Measure
Analytics

Advanced Options
Account Linking, Brand Verification,...

English [Modify languages](#)

Quick setup
You're almost ready to build your first Action - we just need to set up your invocation first.

→ [Decide how your Action is invoked](#)

Build your Action
You have finished building Actions. Good job!

Get ready for deployment
Before you create a release, let's check if you have all the information ready.

Release
✔ You have not created a release for the current draft.



- Enter an Invocation name [blue arrow] – for this example use “[your name] Hello World”. If Google says the name is already selected, then you will need to pick another name.
- Deselect the “Match user’s language setting” [red arrow]
- Select a Google Assistant voice – I like the Male 1 (EN-GB) voice [green arrow]
- Click Save [yellow arrow]

The screenshot shows the 'Invocation' settings page for an Action on Google. The page is titled 'Hello-World' and has a 'SAVE' button in the top right corner. The 'Display name' field is set to 'Chips Hello World'. The 'Google Assistant voice' dropdown is set to 'Male 1 (EN-GB)'. The 'Match user's language setting' checkbox is unchecked. A yellow arrow points to the 'SAVE' button, a blue arrow points to the 'Display name' field, a green arrow points to the 'Google Assistant voice' dropdown, and a red arrow points to the 'Match user's language setting' checkbox.



- Now let's test your Voice App – select “Simulator” under Test [blue arrow]
- For Input, type the suggested input and hit enter [red arrow]

The screenshot shows the 'Simulator' tab in the 'Actions on Google' developer console. A blue arrow points to the 'Simulator' option in the left-hand navigation menu. A red arrow points to the 'Input' field at the bottom of the simulator, which contains the text 'Talk to Chips Hello World'.

Blue

Red

Actions on Google Hello-World Go to docs

Overview Simulator

Setup

Invocation

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Actions, Theme Customization

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Directory Information, Location Tar...

Measure
Analytics

Advanced Options
Account Linking, Brand Verification,...

CHANGE VERSION

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

DISPLAY REQUEST RESPONSE AUDIO DEBUG ERRORS

Visual will show up when you start to test

Test your Actions by typing or saying "Talk to Chips Hello World" below or any device you're logged into with "chip@cedwards.net"

Suggested input
Talk to Chips Hello World

Input
Talk to Chips Hello World



- Notice that a response will be returned from the Responses listed in Dialogflow [blue arrow]
- Now enter one of the Training phrases from Dialogflow – try “hi there” or “hey” as input [red arrow]

The screenshot shows the Google 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 Action, Test, Simulator (highlighted), Deploy, Measure, and Advanced Options. The main content area is titled 'Chips Hello World' and features a 'Talk to Chips Hello World' button. Below this, a response is displayed: 'Sure. Getting the test version of Chips Hello World. Hello! How can I help you?'. A blue arrow points to this response. At the bottom, the 'Suggested input' section shows a 'cancel' button and an 'Input' field containing the text 'hey'. A red arrow points to this input field. On the right side, there are settings for 'CHANGE VERSION' (Surface: Phone, Language: English (United States), Location: Googleplex, Mountain View, CA...) and a 'DISPLAY' tab showing a preview of the response.



- “Hey” will start the “Welcome” Intent again and another Response will be returned [blue arrow]

The screenshot displays 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, Test, Simulator (highlighted in blue), Deploy, Measure, and Advanced Options. The main area is titled 'Chips Hello World' and shows a simulated conversation. The first response is 'Sure. Getting the test version of Chips Hello World.Hello! How can I help you?'. The user input is 'hey'. The second response is 'Good day! What can I do for you today?'. A large blue arrow points to the second response. Below the conversation is a 'Suggested input' section with a 'cancel' button and an 'Input' field containing the text 'Try typing or saying "Talk to Chips Hello W...'. On the right side, there are settings for 'CHANGE VERSION' (Surface: Phone, Language: English (United States), Location: Googleplex, Mountain View, CA..) and a 'DISPLAY' tab showing a preview of the 'Chips Hello World' app interface.



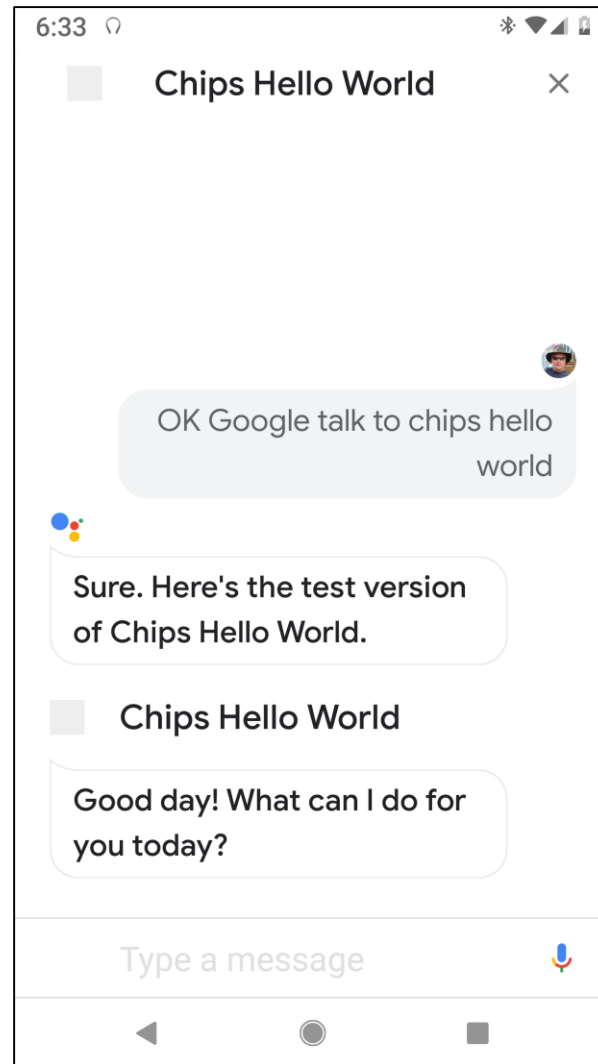
- Repeat one of the Training Phrases from the Default Welcome Intent and eventually the “Hello World” Response will be returned [blue arrow]

The screenshot displays the 'Actions on Google' Simulator interface. The left sidebar contains navigation options: Overview, Setup, Invocation, Build, Test, Deploy, Measure, and Advanced Options. The 'Test' section is active, showing the 'Simulator' tab. The main area is titled 'Chips Hello World' and shows a conversation log. The log includes the following interactions:

- User input: 'hey' (grey bubble)
- Assistant response: 'Good day! What can I do for you today?' (speaker icon)
- User input: 'hey' (grey bubble)
- Assistant response: 'Hi! How are you doing?' (speaker icon)
- User input: 'hi' (grey bubble)
- Assistant response: 'Hello! How can I help you?' (speaker icon)
- User input: 'hi' (grey bubble)
- Assistant response: 'Hello World!' (speaker icon)

A blue arrow points to the 'Hello World!' response in the log. Below the log is a 'Suggested input' section with a 'cancel' button and an 'Input' field containing the text: 'Try typing or saying "Talk to Chips Hello W...'. The right side of the interface shows configuration options for 'CHANGE VERSION', including Surface (Phone), Language (English (United States)), and Location (Googleplex, Mountain View, CA..). Below this is a 'DISPLAY' tab with a sub-window titled 'Chips Hello World' showing the text 'Hello World!'.

- If you have Google Assistant on your cell phone, as long as you are using the same Google Account, you can try the same:



Recap

- After completing Lessons 1, 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 to greet you



THANK YOU!

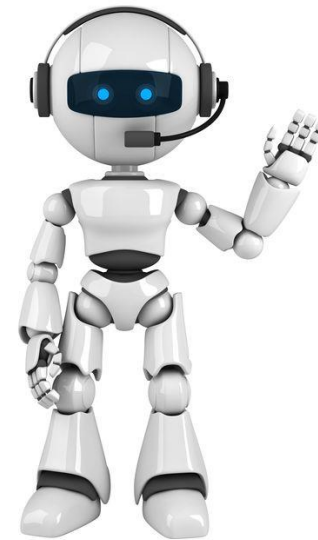
CHIP EDWARDS

704.251.9494

CHIP@CREATEMYVOICE.COM

“HEY GOOGLE, TALK TO CREATE MY VOICE”

“ALEXA, START CREATE MY VOICE”



Create My Voice