

Google Home Midterm Presentation

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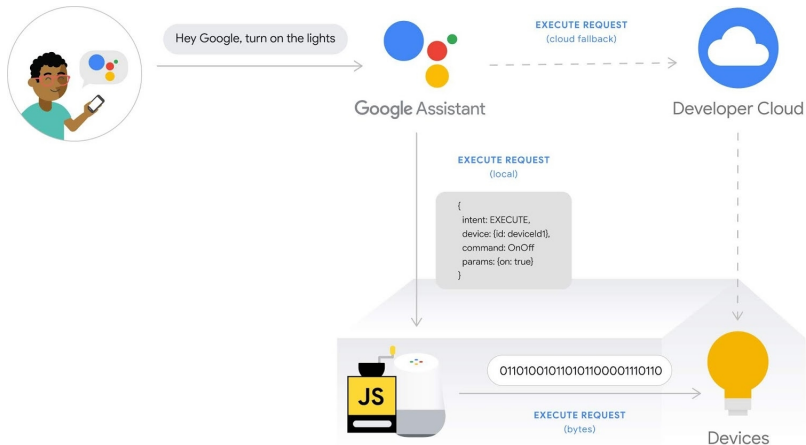
Overview

- 1 Overview
- 2 Developer Console
- 3 Dialogflow
- 4 Intents
- 5 Entities
- 6 Knowledge Base
- 7 Live Demo



- founded by Google in 2016
- development through googles developer console and Dialogflow
- creating skills pretty easy
- no programming skill required

Execution Path



Developer Console

The screenshot shows the Google Actions Console interface. At the top, there's a navigation bar with tabs: Overview, Develop (selected), Test, Deploy, and Analytics. The user's account is 'OcSeminarGroup3'. On the left, a sidebar lists: Invocation (selected), Actions, Theme customization, Account linking, and Backend services. The main area is titled 'Invocation' and contains a configuration panel for the 'English' language. The panel has two sections: 'Display name' and 'Google Assistant voice'. In the 'Display name' section, the name 'Intelligent Textbook' is entered in a text field. Below it, there are icons for hearing the pronunciation and modifying it. In the 'Google Assistant voice' section, 'Female 1' is selected from a dropdown menu, and the checkbox 'Match user's language setting' is checked. A 'Save' button is in the top right corner of the main area.

Actions Console

Overview **Develop** Test Deploy Analytics

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Invocation

Save

English [Modify languages in Settings](#)

Display name

Choose a name for your Action. Users say or type this name to begin interacting with it. [Learn](#)

Intelligent Textbook

Click to hear the pronunciation of your name

Modify the pronunciation if it doesn't sound right

Google Assistant voice

Select the type of voice you want to use for your app. [Learn](#)

Female 1

☒ Match user's language setting

Developer Console cont'd

- gives an overview of your skill
- specifies general settings
- gives the user the ability to test their skill
- deployment of the skill

Specific Settings

- Intents
 - simple messaging objects
 - describes what smart home Action to perform
- Entities
 - smart objects like time or colours
 - can be customised
- Knowledge Base
 - complement defined intents
 - used to find automated responses

Intents

Dialogflow

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- Intents
- Entities
- Knowledge
- Fulfillment
- Integrations
- Training
- Validation
- History
- Analytics
- Prebuilt Agents
- Small Talk
- Docs
- Standard Free
- Support

annotation differences [SAVE]

Training phrases

Search training phrases

- Add user expression
- Explain the difference between a semi-automatic editing, manual editing, and automatic annotation
- What is the difference between semi-automatic editing, manual editing, and automatic annotation

Action and parameters

Enter action name

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

Text Response


- 1 Response from knowledge graph

Try it now

Please use test console above to try a sentence.

See how it works in Google Assistant

Entities



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en

Intents

Entities

Knowledge ^{beta}

Fulfillment

Integrations

Training

Validation

History

Analytics

Prebuilt Agents

Small Talk

> Docs

Standard Free

Support

Upgrade

NLP_tasks

☒ Define synonyms [?]

☐ Regex entity [?]

☐ Allow automated expansion

☒ Fuzzy matching [?]


tokenization	tokenization
stemming	stemming
lemmatization	lemmatization
sentence boundary disambiguation	sentence boundary disambiguation
named entity recognition	named entity recognition
part of speech tagging	part of speech tagging, part-of-speech tagging
chunking	chunking
syntactic parsing	syntactic parsing
semantic role labeling	semantic role labeling
coreference resolutions	coreference resolutions, co-reference resolutions, co reference resolutions
Click here to edit entry	

+ Add a row

Try it now

Please use test console above to try a sentence.

See how it works in Google Assistant.



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Problem

We need to somehow add the Knowledge Base from Group 1 into our skill.

Solution

There is a Knowledge Base feature which is already implemented in Dialogflow however here we only can use documents like texts or csv files or pdfs. So we are not exactly sure how to handle this at the moment.

Live Demo

Thank you for your
attention!