

Building Conversational Experiences with Dialogflow



Agenda

What is a Conversational Experience?

Chatbot Journey and Challenges

Build Engaging Conversational Interfaces with Dialogflow

Life of a Conversation

Your Chatbot Workflow



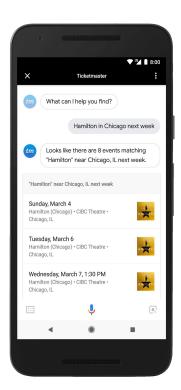
A "conversational experience" can be represented in different ways

- Conversational interface
- Conversational UX
- Conversational app
- 4 Voice bot
- 5 Chat bot



Defining a "conversational experience"

Any voice or chat interface that relies on Natural Language Understanding (NLU) for interacting with users.





Conversation is the new UI

72%

-Google

of people who own a voice-activated speaker say their devices are often used as part of their daily routines. 60%

-Ovum

of consumers want easier access to self-serve solutions for customer service. 91%

of survey respondents would rather use a knowledge base if it were available and tailored to their needs.

-Zendesk



There is a diverse set of use cases

Connecting businesses to their customers

Controlling IoT devices

Connecting businesses to their employees

Customer service
Commerce

Home entertainment
Auto

Organizational knowledge
Surfacing data and insights



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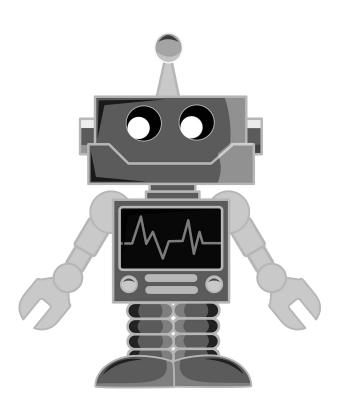
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Chatbots of the past were difficult to maintain



Creating engaging conversational experiences is hard without the right tools, expertise and resources.



There are challenges to building conversational interfaces

NLU doesn't grow on trees!	Few companies have the expertise to do NLU as well as consumers expect.
Maximizing reach takes effort	Building support for multiple languages, platforms, devices, and apps is complex.
Enterprise integration is critical	Integration with backend services (e.g., CRM) requires open, flexible infrastructure.
Don't try to boil the ocean	Is this a strong use case? What can the bot do well?
Human escalation protocol is necessary	Very few chatbots have an escalation workflow in place to let a human take over the conversation when the bot cannot help.



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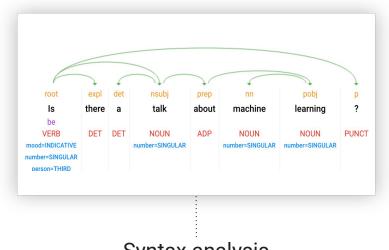
Dialogflow is a platform for building natural and rich conversational experiences

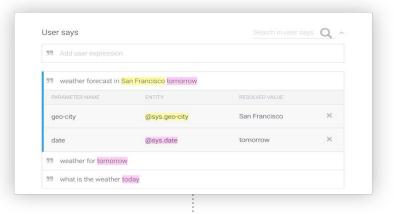
- Dialogflow is an emerging standard for developing conversational interfaces, with a community of 600K+ developers.
- 2 Dialogflow users benefit from the world-class Al assets and capabilities of Google.





Natural language processing is a game changer



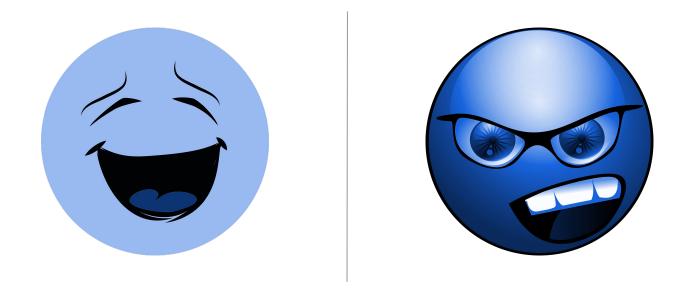


Syntax analysis

Entity recognition



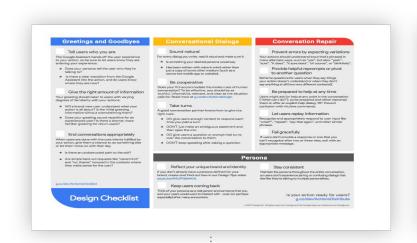
Natural language processing is a game changer

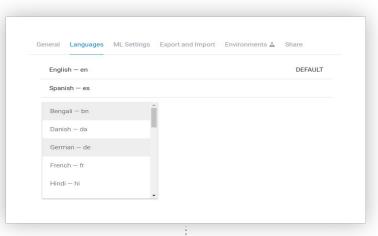


Sentiment analysis



Natural language processing is a game changer



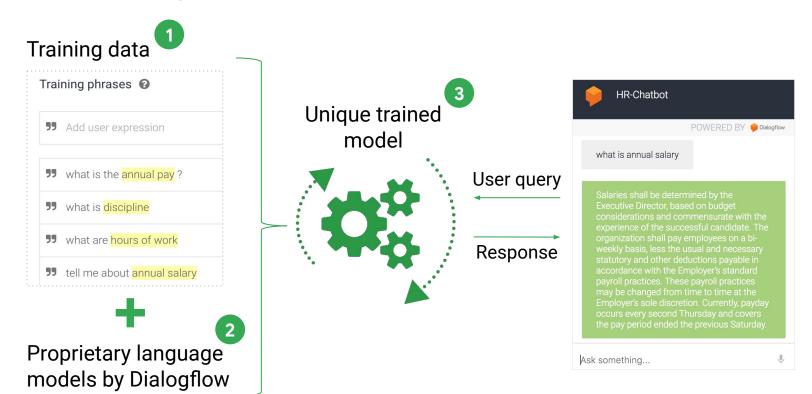


Content classification

Multi-language support

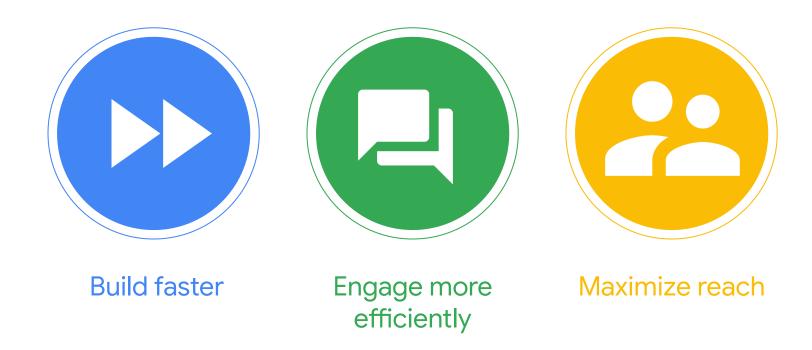


How Dialogflow works





Dialogflow benefits for users





Pre-built agents help you get a head start



Start training with only a few examples

40+ pre-built agents
and "small talk"
features





Food Delivery

Create and manage food and drink orders



Formats

Control default units of measurement



Hotel Booking

Find, create and manage reservations for hotels



Jokes

The agent tells jokes



Navigation

Ask for directions



News

Get news stories and manage news feed



Radio

Control playing radio



Reminders

Schedule, edit, view and remove reminders



Language Settings

Set language preferen



Local Services

rch local services shops



Maps

earch maps for a location



Music

Play and control your music and playlists



Analytics offer insights about needed improvements

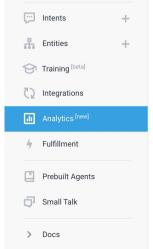
Dialogflow

Travel Agent

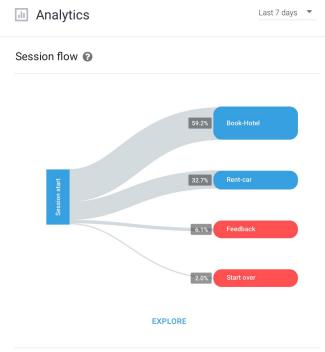


Training and

analytics



> Forum

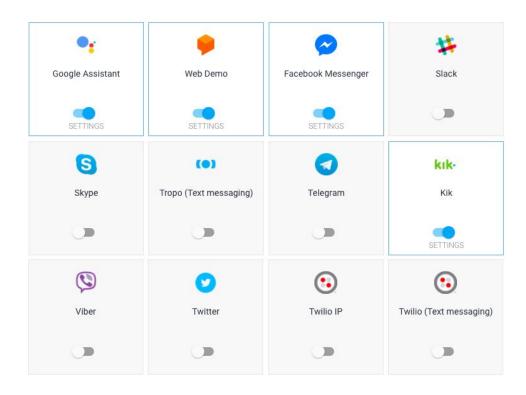




One-click integrations with most major platforms



- 20+ languages
 supported (most in product category)
 - Build once, deploy everywhere
 - 14 single-click platform integrations and 7 SDKs





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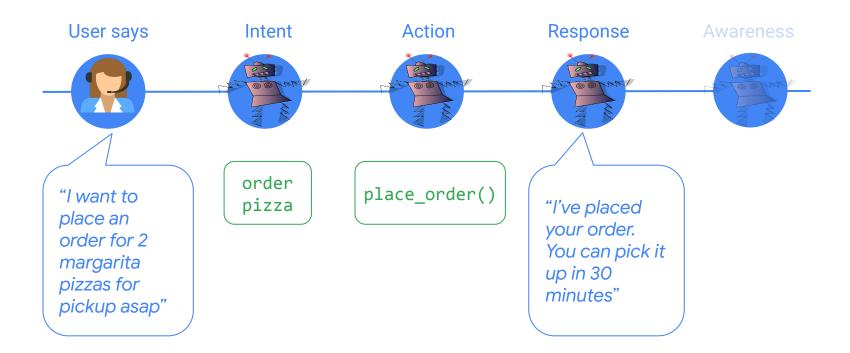
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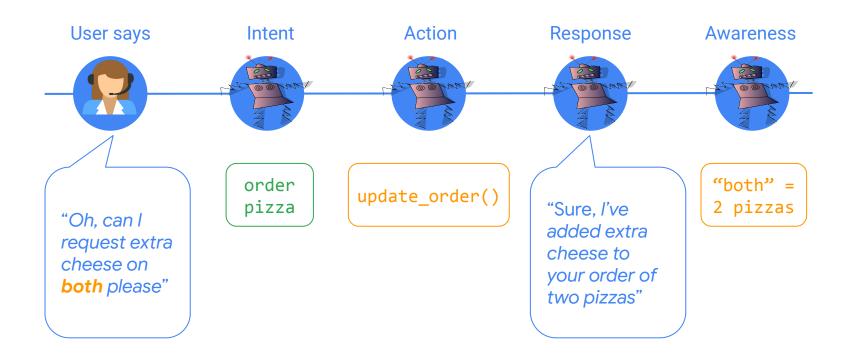


Life of a conversation





Life of a conversation





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Your chatbot workflow



DesignWhat to build



DevelopHow to build



DeployHow to deliver



Your chatbot workflow



DesignWhat to build



DevelopHow to build



DeployHow to deliver



Create your persona

knowledgeable helpful Core **brand attributes** encouraging data rich recommending Functional design principles proactive geeky eager Personality of your agent motivating Style guide and "bio sketch"



Example style guide

MIGHT SAY THINGS LIKE

I found ...

Up for that?

Does that sound good?

Maybe later

While you're at it ...

What's going on?

So you can keep up to date on ...

I'll look it up right now

Sure, that's coming up

Right around the corner from ...

That session's full, but ...

You might like ...

WOULD NEVER SAY

I did not receive a response

If you feel you have reached this message in error

Please select from one of the following X options

To help us serve you better ...

For questions related to ...

You have entered ...

That was an invalid ...

We require that you ...

Please try again

For faster answers ...

We're sorry, we are unable to ...

I did not understand



Example style guide

INSTEAD OF...

allows
require
unable to
due to
additional
regarding
assist
currently
please hold
remain

IS MORE LIKELY TO SAY...

lets
need
can't
because
more
about
help
right now
one sec
stay



Consider the conversation design checklist

Greetings and Goodbyes Conversation Repair Sound natural Tell users who you are Prevent errors by expecting variations For every dialog you write, read it aloud and make sure it: The Google Assistant hands off the user experience Your actions should understand input that's phrased in to your action, so be sure to let users know they are many alternate ways, such as "yes", but also: "yeah", Is something your desired persons would say "sure", "it does", "it sure does", "of course", or "definitely". entering your experience. · Has been written with voice in mind rather than · Does your persona tell the user who they're Provide helpful reprompts or pivot just a copy of some other medium (such as a talking to? converted mobile app or website). to another question Is there a clear transition from the Google Reframe questions for users when they say things Assistant into the action, and do users know your action doesn't understand or when they don't Be cooperative where they are now? say anything at all (two very different contexts!). Does your VUI accommodate the innate rules of human conversation? To be effective, you should be as Give the right amount of information Be prepared to help at any time truthful, informative, relevant, and clear as the situation calls for. Read more at g.co/dev/ActionsDesign. Users might ask for help at any point in the conversation Your greeting should cater to users with varying ("What can I do?"), so be prepared and either reprompt degrees of familiarity with your actions: them or offer an explicit help dialog. TIP: Prevent Take turns · Will a brand-new user understand what your confusion with intuitive commends. action is all about? Is the initial greeting A good conversation partner knows how to give the informative without overwhelming them? Let users replay information . Does your greeting sound repetitive for an Recognize and appropriately respond to user input like · DO give users enough context to respond each experienced user? Is there a shorter, more time you yield a turn. "what?", "repeat", "say that again", and other similar familiar greeting for return users? phrases. · DON'T just make an ambiguous statement and then open the mic. Fail gracefully End conversations appropriately DO give users a question or prompt that turns If users don't provide a response or one that you over the conversation to them. When users are done with the core intents fulfilled by can't recognize after two or three tries, exit with an your action, give them a chance to do something else DON'T keep speaking after asking a question. appropriate message. or let them move on with their day. . Is there an unobstructed path to the exit? Persona · Are simple back out requests like "nevermind" and "no, thanks" honored in the contexts where they make sense for the user? Reflect your unique brand and identity Stay consistent If you don't already have a persona defined for your Maintain the persona throughout the entire conversation. brand, create one! Find out how in our Design Tips video so users don't experience jarring or confusing dialogs that youtu.be/MSUPVbbhlGA. feel like they're talking to multiple personalities. a.co/dev/ActionsChecklist Keep users coming back Think of your persons as a real person and someone that you and your users would want to interact with - even (or perhaps Is your action ready for users? Design Checklist especially) after many encounters.



g.co/dev/ActionsDistribute

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Your chatbot workflow



DesignWhat to build



DevelopHow to build



DeployHow to deliver



Your chatbot workflow



DesignWhat to build



DevelopHow to build



DeployHow to deliver



Group Activity



cloud.google.com

