



Conversational AI: QnA, Language Understanding & Personality in Bots

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1

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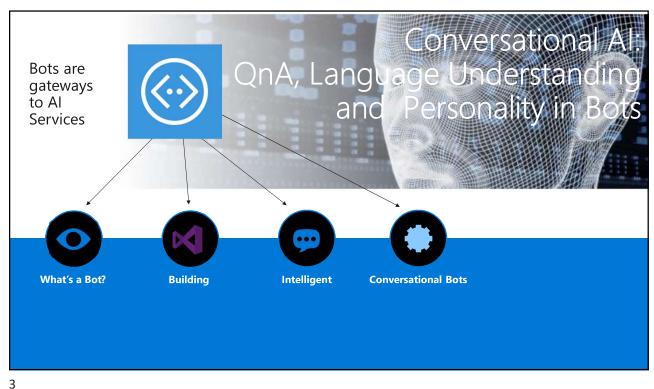
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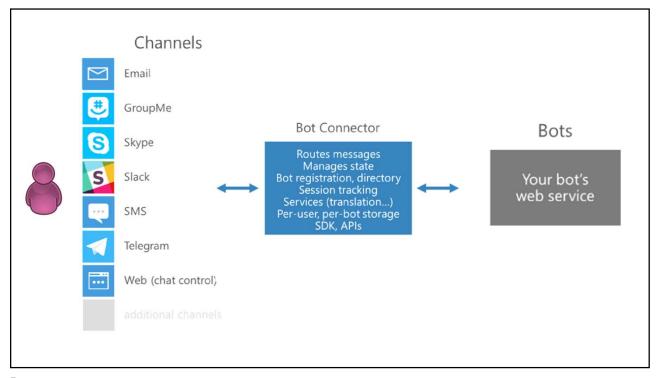
What's a Bot?

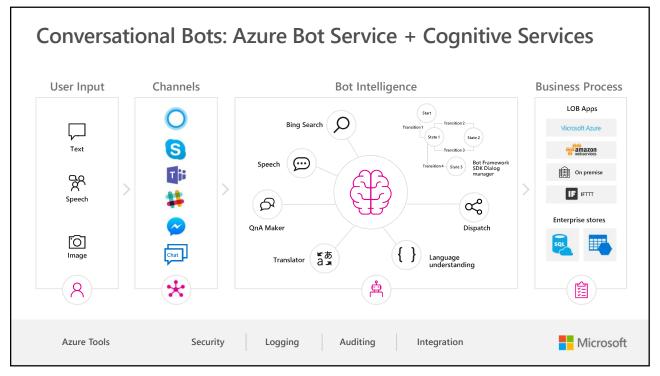
An Internet bot, also known as a web robot, WWW robot or simply bot, is a software application that runs automated tasks (scripts) over the Internet [11] Typically, bots perform tasks that are both simple and structurally repetitive, at a much higher rate than would be possible for a human alone. The largest use of bots is in web spidering (web crawler), in which an automated script fetches, analyzes and files information from web servers at many times the speed of a human. More than half of all web traffic is made up of bots.[2]

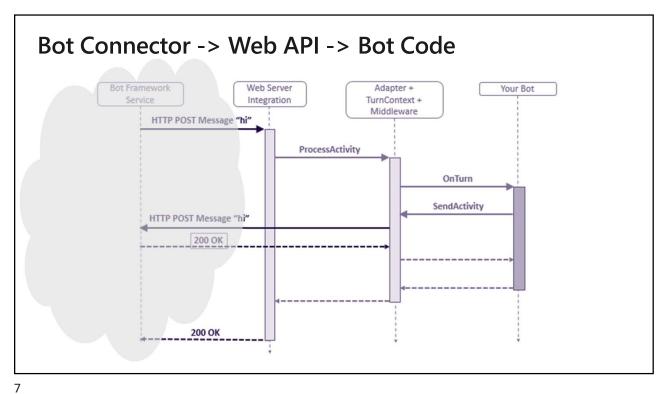
Chatbots, or "bots" for short, are computer programs that interact with people in a way that mimics human interaction to some degree. The interaction can vary in complexity from simple keyword-driven queries to elaborate conversational systems using natural language processing and AI techniques.

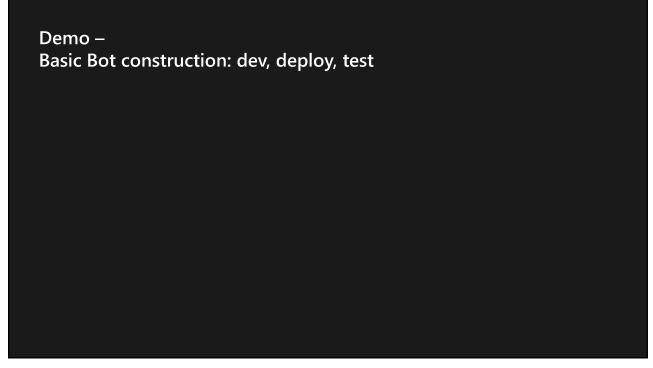
Bots are simply Telegram accounts operated by software - not people - and they'll often have AI features. They can do anything teach, play, search, broadcast, remind, connect, integrate with other services, or even pass commands to the Internet of Things.

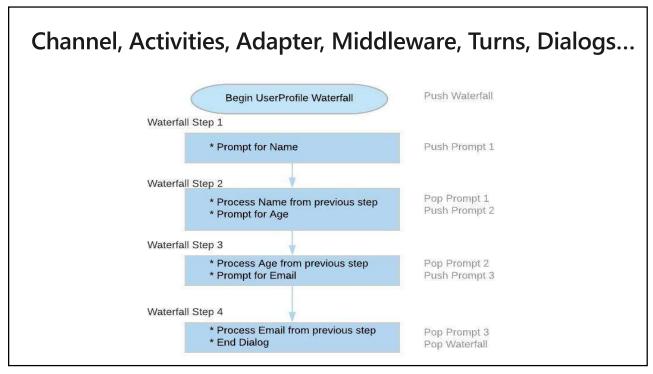
Bots provide an experience that feels less like using a computer and more like dealing with a person - or at least an intelligent robot. They can be used to shift simple, repetitive tasks, such as taking a dinner reservation or gathering profile information, on to automated systems that may no longer require direct human intervention. Users converse with a bot using text, interactive cards, and speech. A bot interaction can be a quick question and answer, or it can be a sophisticated conversation that intelligently provides access to services.

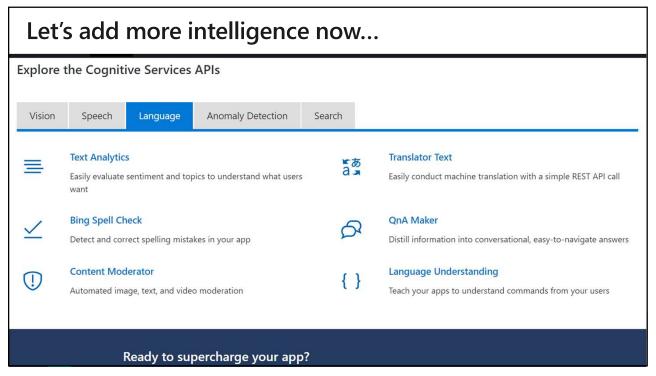


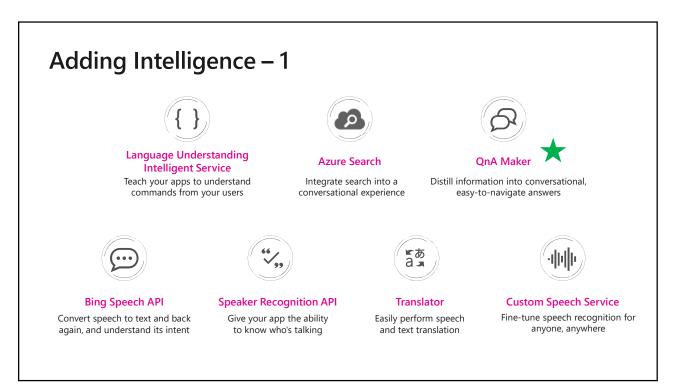


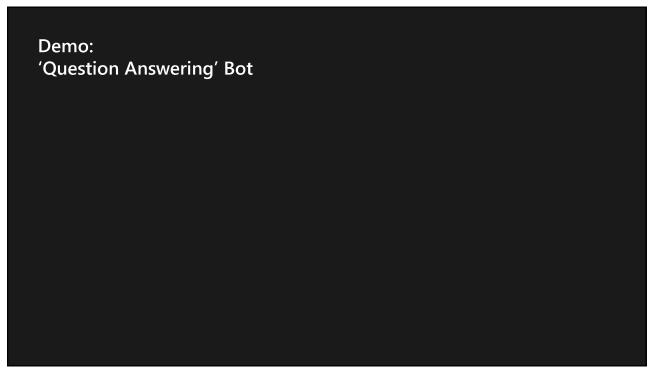


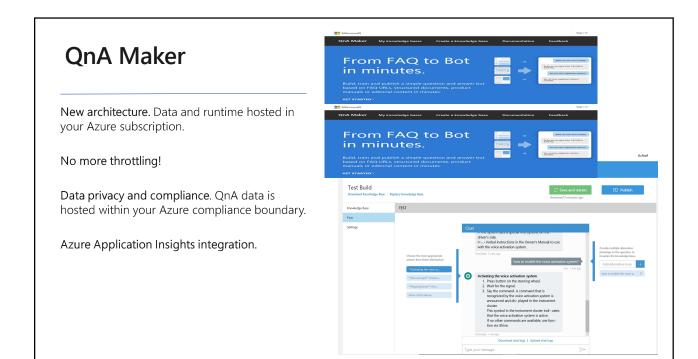


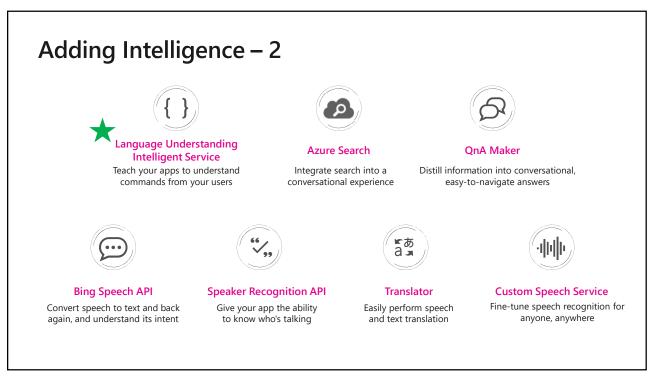














Hello Jane Heya! How are you? Good morning, Jane.

Utterance = 'Hello Jane'
Intent = Greeting
Entity = Person [Jane]



Intent ~ method-to-invoke
Entity ~ parameters-for-invocation

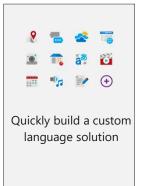
18

Demo: Understanding natural language (LUIS support)

Language Understanding (LUIS)

Machine learning-based service to build natural language into apps, bots, and IoT devices. Quickly create enterprise-ready, custom models that continuously improve.

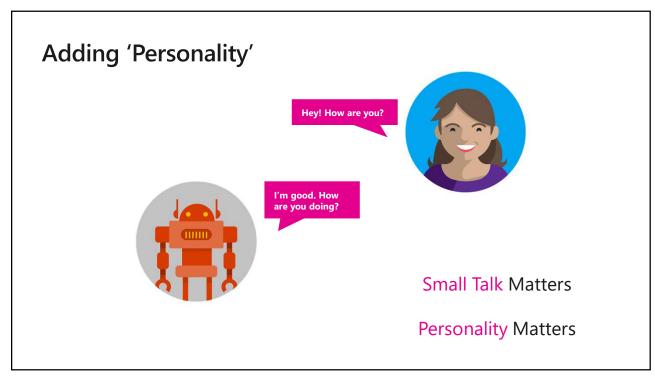


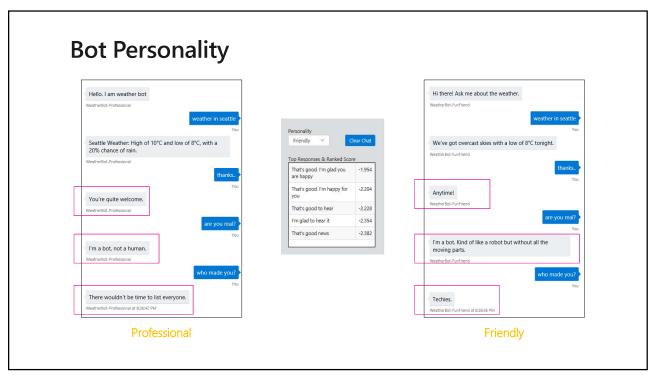






20





Editorial Personality Chat Library

- · 100 + small talk scenarios covered
- · Choose between editorial responses in three personalities -

Professional | Friendly | Humorous

Small Talk Query	Professional	Friendly	Humorous
"Thank you"	You're quite welcome.	You bet.	No prob.
"Will you marry me?"	I think it's best if we stick to a professional relationship.	You're three-dimensional. I'm non-dimensional. Our love can never be.	Sure. Take me to City Hall. See what happens.
"Who made you?"	There wouldn't be time to list everyone.	So many people!	Nerds.

Where next?

Get started - aka.ms/BotBuilderOverview

Everything else https://github.com/Microsoft/BotBuilder

29









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33

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34

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