A Brief Journey from Device to Action ...

IoT Virtual Bootcamp

December 12 – 14, 2017





Microsoft Bot Framework & Azure Bot Service

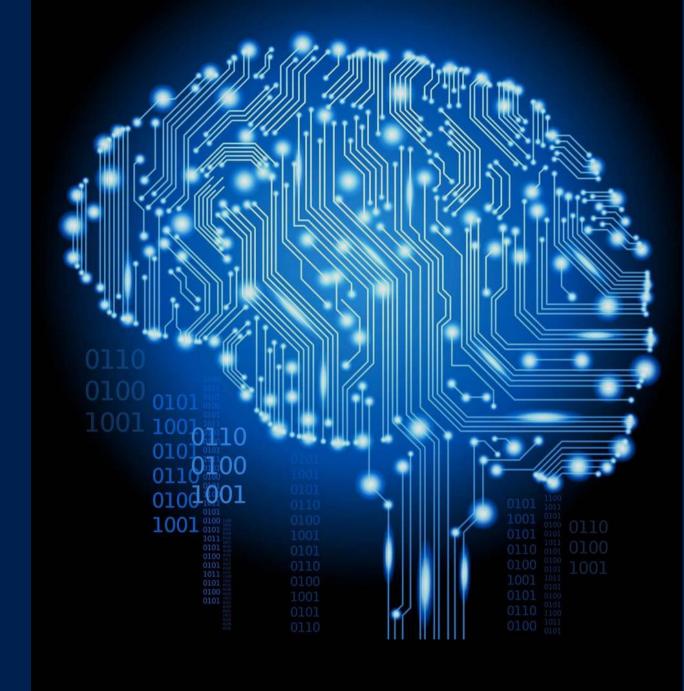
Maarten Struys



"The world and technology are once again transforming."

"Computers may win at games, but imagine what's possible when human and machine work together to solve society's greatest challenges like beating disease, ignorance, and poverty."

SATYA NADELLA, CEO MICROSOFT



1990s: Internet

- Search
- User "visits" websites





- Social
- User download apps from App Stores

The future: Conversations

- Natural language between people and technology
- Conversational canvas
- Bots and agents



1980s: **PC**

Desktop



Conversations as a platform



The new canvas

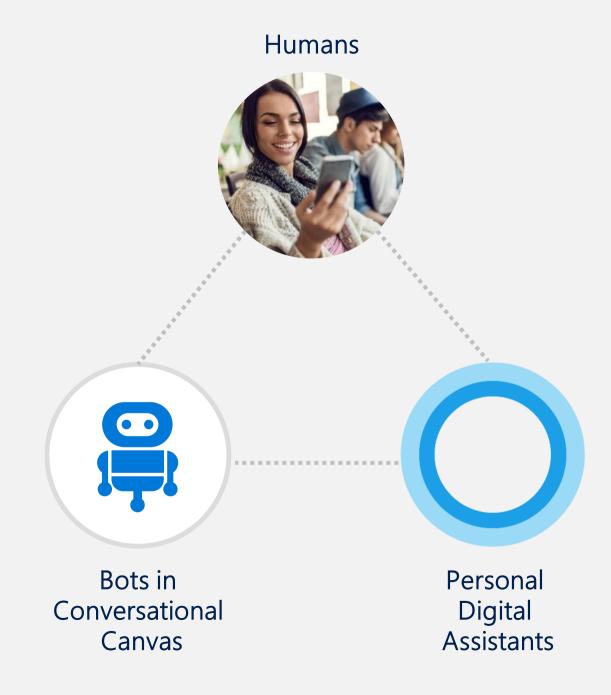


The new opportunity



More personal way to discover, access, and interact

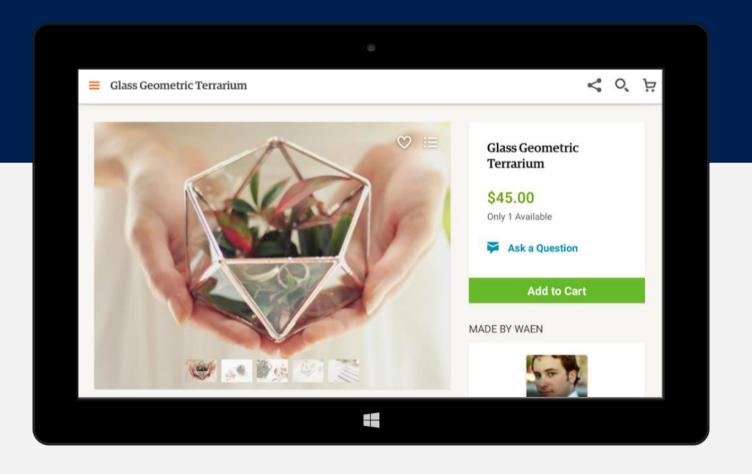
Conversations as a platform



How your brands communicate with customers today

Website

App



Transforming engagement



Productivity task completion
Enhance productivity through task
automation and through automated

workflows



Reach customers anywhere, on any platform or device



Engage with customers and users in a natural way, conversationally and in context

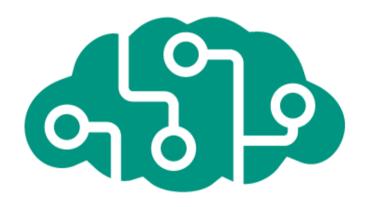


Expose your products and services via messaging platforms, where users are already highly engaged

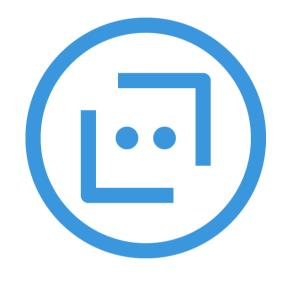


Improve customer experience and reduce the need for human assistance

Intelligence platform







Cognitive Services

Microsoft Bot Framework **Azure Bot Service**



Your Bot Framework Bot



Tools and services to build great bots that converse wherever your users are.

- Open source SDK on Github for Node.js, .NET and REST
- From simple built-in prompts and command dialogs to simple to use yet sophisticated 'FormFlow' dialogs
- Support for rich attachments (image, card, video, doc, etc.); support for calling (Skype)
- Online/offline chat Emulator
- Add bot smarts with Cognitive Services for language understanding and more



Connect your bots to text/sms, Skype, Slack, Facebook Messenger, Office 365 mail and other channels.

- Register, connect, publish and manage your bot through your bot's dashboard
- Automatic card normalization across channels
- Skype channel auto-configured
- Embeddable Web chat control
- Host your bot in your app via the Direct Line API
- Fast, scalable message routing
- Bot Directory for discovery and trial





23 purpose-built ML and Al services to add predictable, configurable intelligence into any software

- Parse natural language (LUIS)
- Real-time transcription and translation services for voice
- Vision and face detection algorithms
- Sentence diagramming
- Web language (hashtag) parsing
- Many more

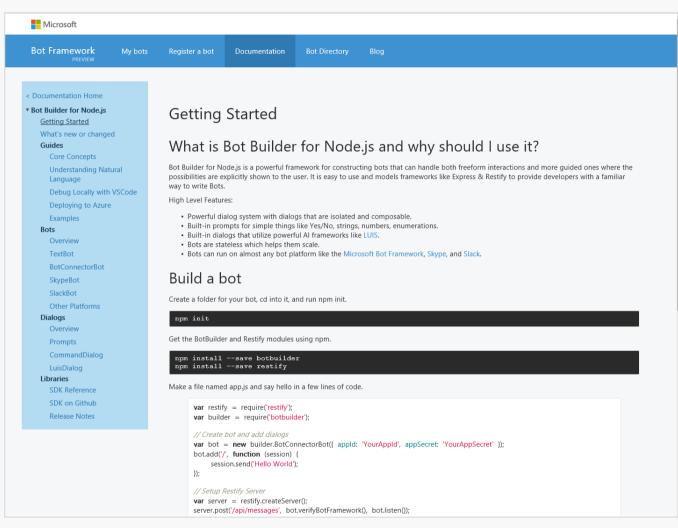
Bot Builder SDK

Node.js, .NET and REST

- Dialogs to model conversation
 - Dialogs are reusable
 - Types of Dialogs include:
 - Built-in prompts
 - Yes/No, String, Number, Choices
 - FormFlow and form slot filling (branching, disambiguation, multi-turn)
 - Conversations are scalable to multiple machines

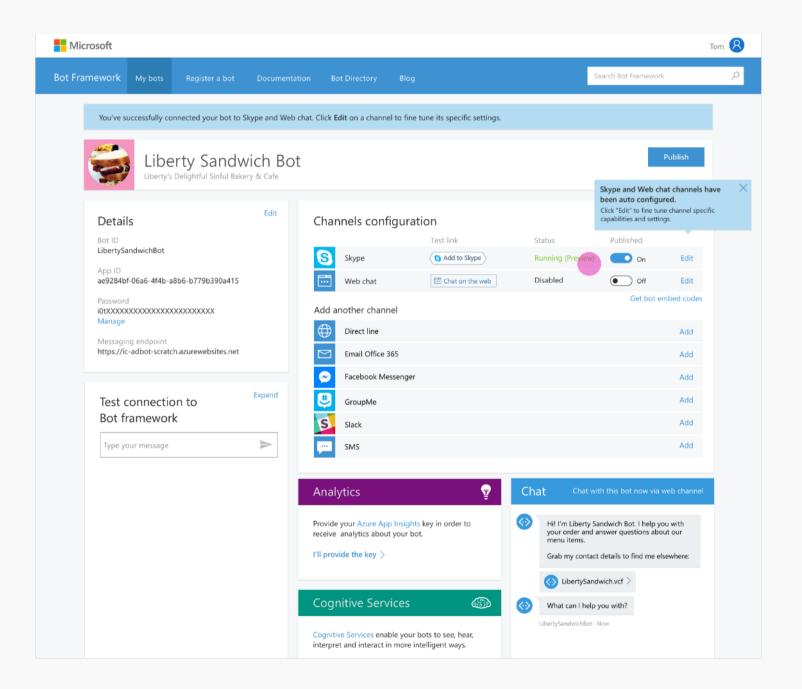
Rich interactions

- Support for rich attachments (image, card, video, doc, etc.); support for calling (Skype)
- Service extensions for language understanding (LUIS) and translation
- Online/offline Chat Emulator
- Samples



Developer Portal

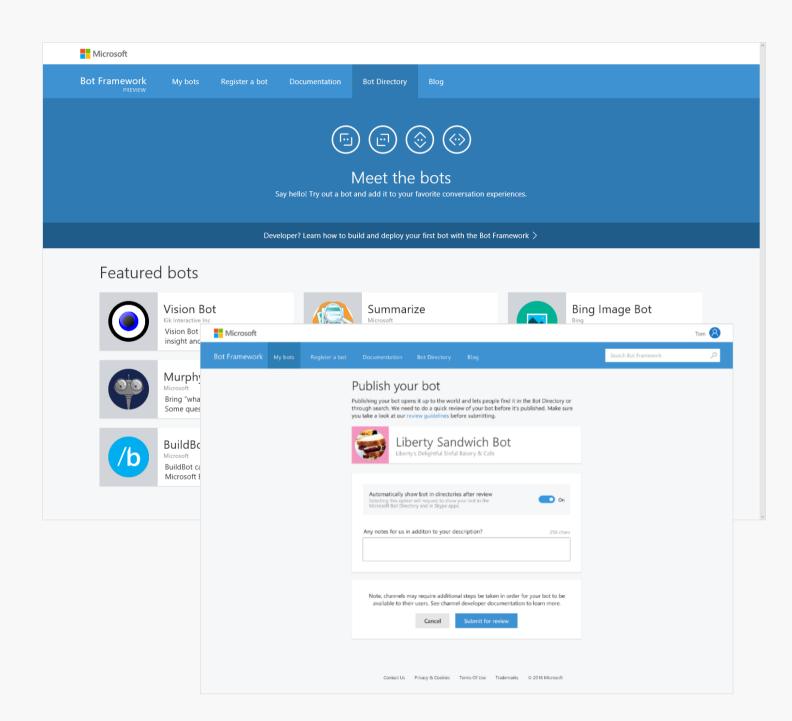
- Register your bot
- Connect to channels
- Test
- Publish
- Manage
- Measure



Bot Directory

Public Directory of Bot Framework Bots

- Users can discover, try, and add bots to the conversation experiences on which the bot is configured (no app required)
- Bots are public at developer discretion; bots must be submitted for review in order to appear in the directory
- Searchable



Benefits

For developers

- Easiest way to reach the broadest set of users where they already are conversing
- Excellent integration with companion services to add intelligence to your bot, such as LUIS for language understanding as well as many other Cognitive Services

For end users

- Users can choose from a variety of conversation channels
- Users have trust and control of their data

For businesses

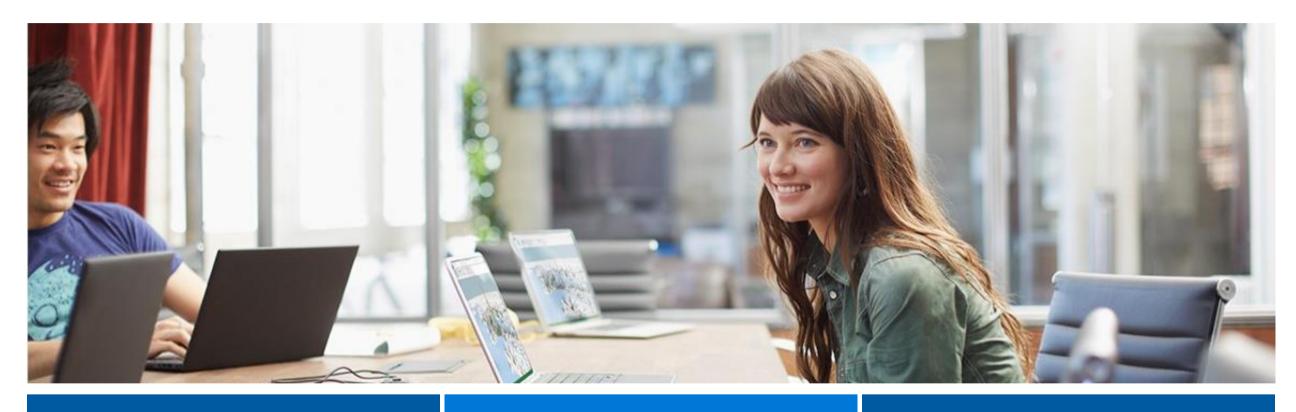
- Broad access to your customers, new ways to delight them, serve them, do business with them –
 in your own web site or app or in any number of popular messaging experiences
- Reduced cost of development

Demo

Building a simple bot using the Microsoft Bot Framework







Accelerate development cycles

Enrich your bots

Boost operational efficiencies



Accelerate development cycles







Built in code editor



Quick start templates



Integrated chat window



Enrich your bots



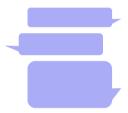
Channel support



Cognitive Services



Direct Line support



Embedded web chat



Boost operational efficiency



Powered by Azure Functions



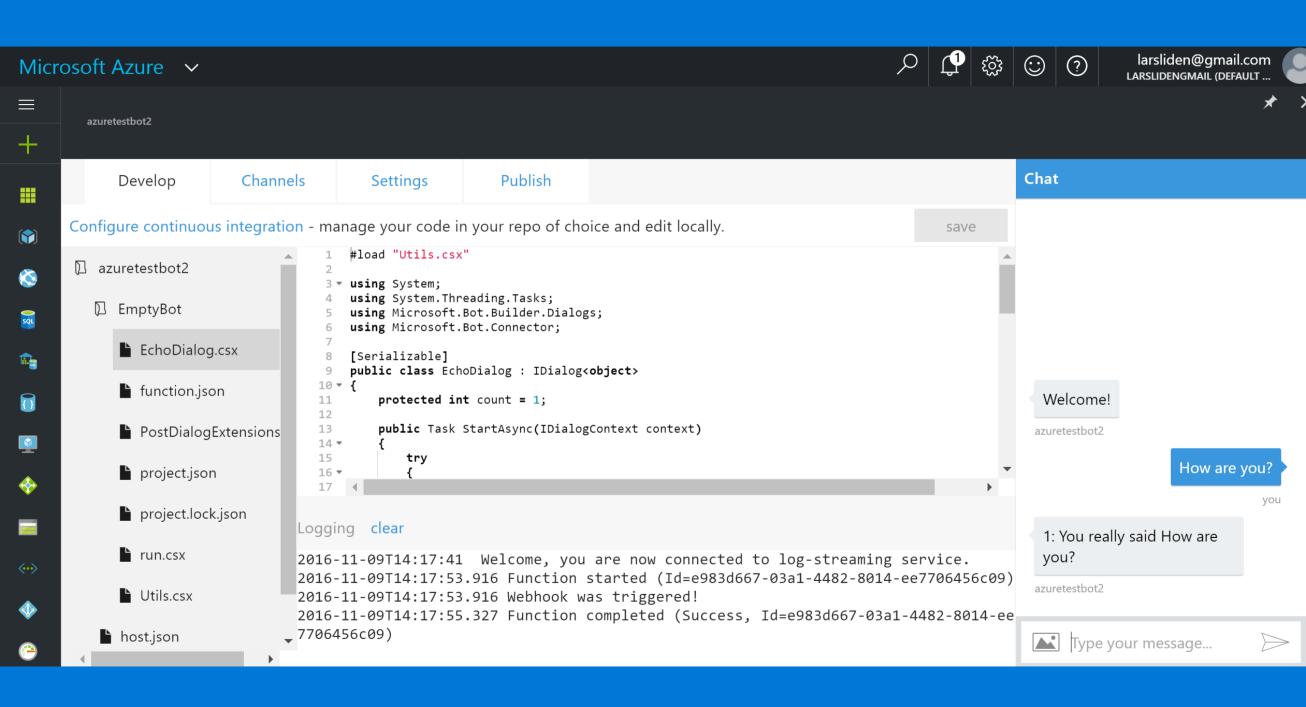
Continuous deployment



Scale on demand



Reduced dev ops



Demo

Building a simple Q&A bot using the Azure Bot Service



Next steps

Sign up for a free Azure Trial https://azure.microsoft.com/en-us/free/

Create your first bot https://azure.microsoft.com/services/bot-service/

Microsoft Bot Framework https://dev.botframework.com/

