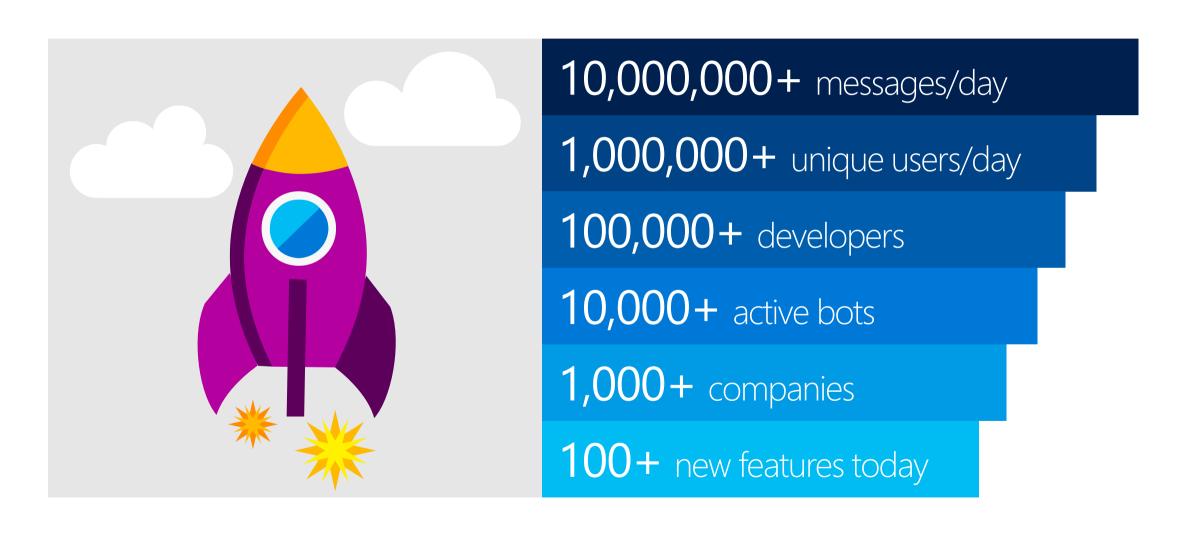
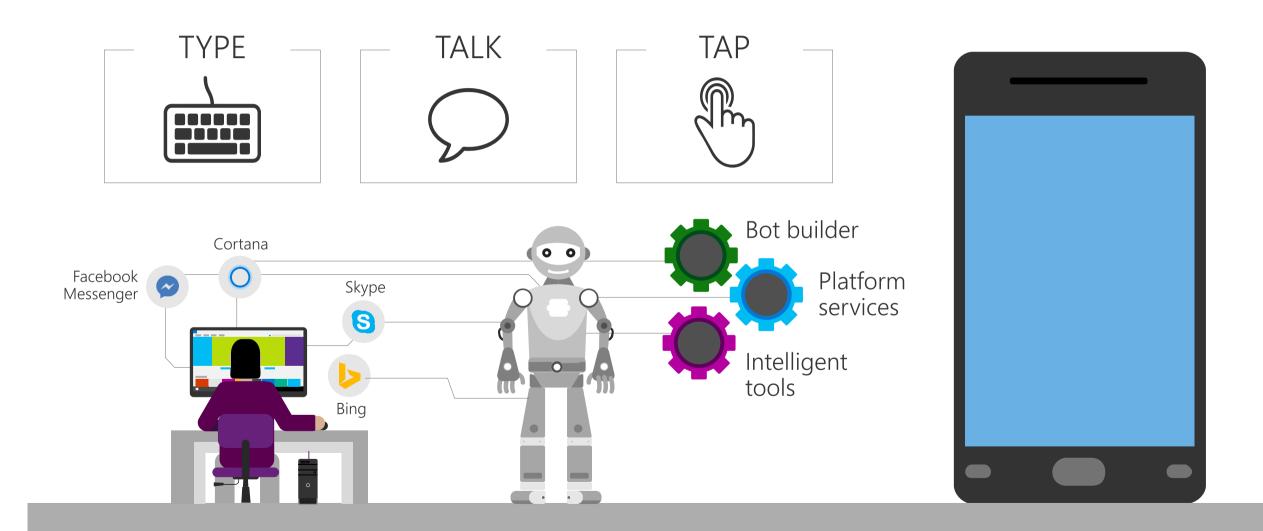


Explosive growth



Why a bot?



Kinds of bots

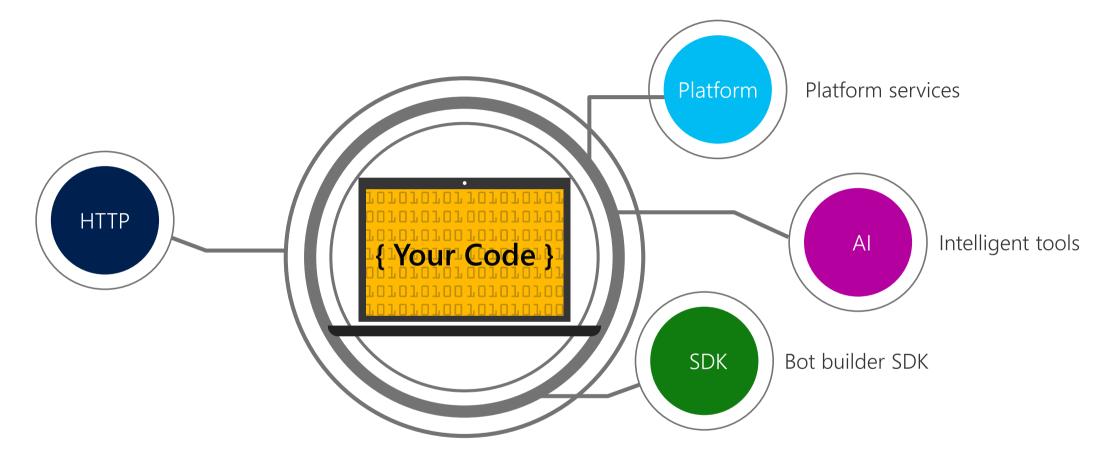
1,000+ companies engaging us

Scenario	Retail	Finance	Insurance	Telecoms	Government	Automotive	Manufacturing	Healthcare	Media	Events
Customer service	~	~	✓	~	✓	✓	✓	~		~
Customer retail	~	~	~	~				~		
Audio/speech analysis	~	~	~	~	✓				~	
Translation		~	✓							
Surveillance		✓			✓					
Knowledge extraction		~	~	~			✓			
Video/photo analysis		~			✓				~	
Product identification	~						✓	✓		
Digital assistant						✓				
Footfall analysis	~									✓
HD maps and object detection						✓				

Demo

Bots running in Bing Search results
Video Link

What is a bot?



REST endpoint

<u>Direct Line Protocol</u>



Conversational and business logic

Canvas aware







Context sensitive

What is the bot framework?

What?

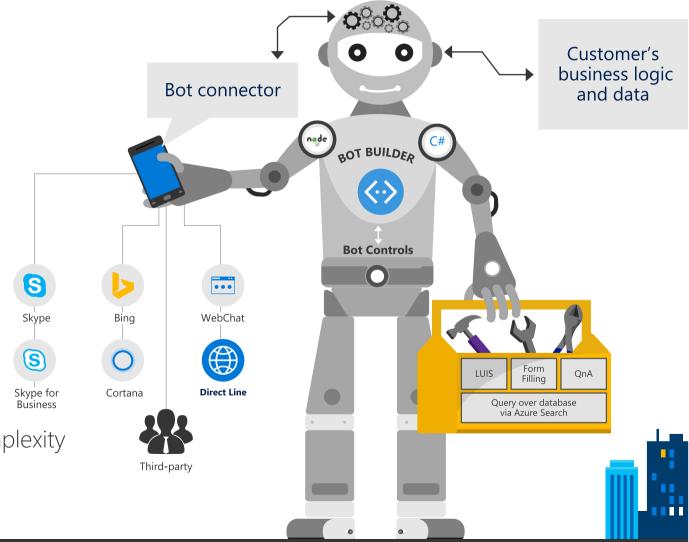
- Tools for building REST websites
- Services to enrich
- Mechanisms for receive events
- Data to debug and tools to analyze

Why?

- Implements standard protocols
- Modeling conversations is hard; tools help!
- UI across multiple canvases is hard; cards rock!
- Language understanding is hard
- Common and well understood patterns

Goals

- Start simple; add complexity; no dead-ends
- Bot adapts to the user, based on context
- Composable and intelligent controls to manage complexity



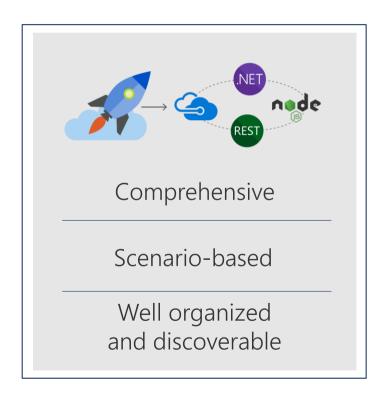
Highlights

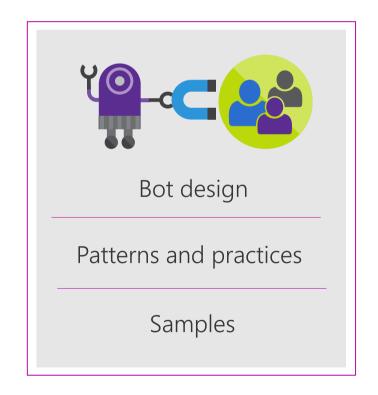
IMPROVEMENTS EVERYWHERE!

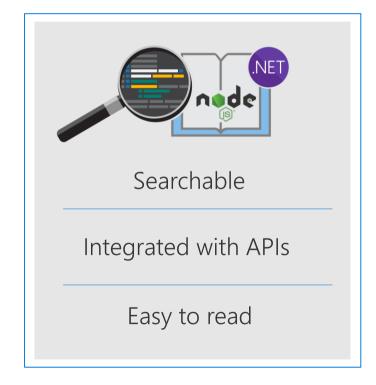
Bot builder Platform Intelligence Analytics SDK updates New channels • Speech support • Cortana Bot controls • Improved dialog tools • Bing • Skype for Business • Debugging improvements Speech support Channel inspector Adaptive cards Cognitive services Improved tooling Speech support Payments

New docs!

#1 REQUESTED FEATURE







Demo

New documentation

New channels

IMPROVEMENTS EVERYWHERE!

















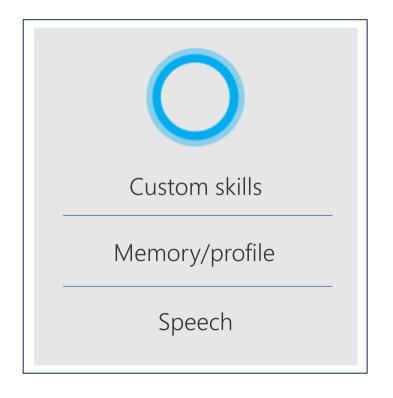


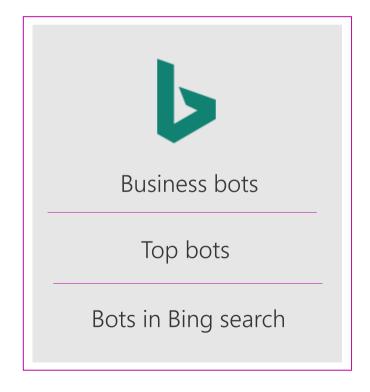


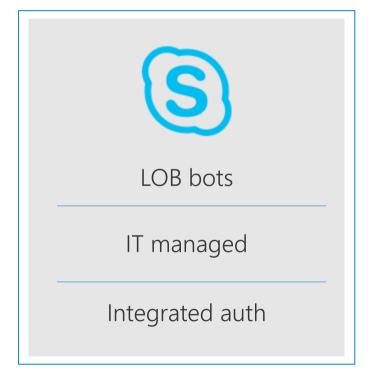


New channels

ONE BOT MULTIPLE CANVASES







Bot discovery

BING SEARCH FOR BOTS

Bing Search Terms

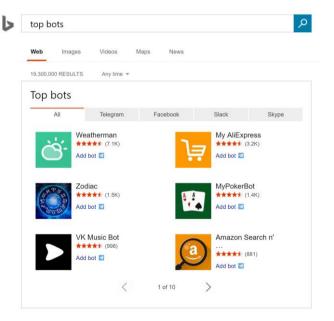
Top bots

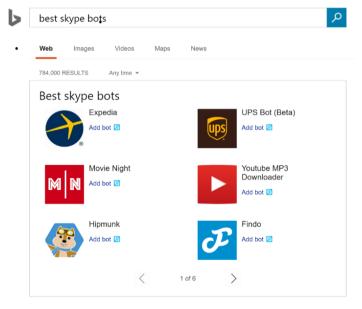
Top Skype bots

Famous Skype bots

Best Facebook bots

Latest Slack bots





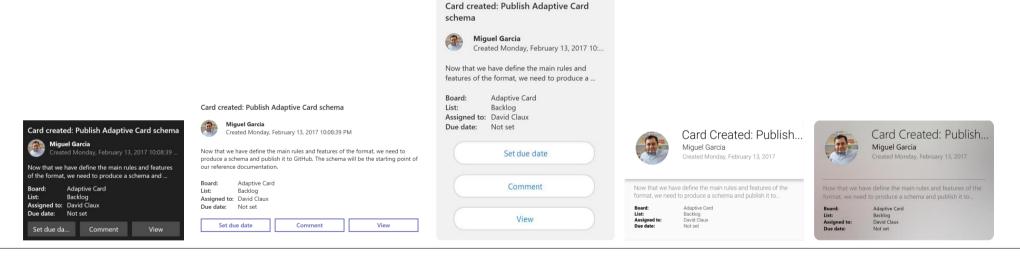
Demo

Adaptive cards
One card, multiple canvases

Adaptive cards



OPEN FRAMEWORK MULTIPLE CANVASES



Notification Microsoft Teams

Skype

Android

iOS

Payments

Works across most major platforms

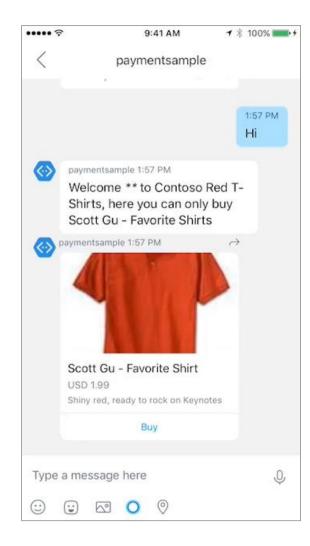
Fast and simple payment experience

Bring commerce capabilities to your bot

Stripe is currently supported
Visit Microsoft seller center
Obtain merchant ID
Start building

Learn more on Microsoft Seller Center!

Read the <u>integration guide</u> for the bot framework



Speech

DEEP INTEGRATION ACROSS THE BOT FRAMEWORK

SPEECH IN PROTOCOLS

DirectLine support

WebChat control

Cortana

SPEECH IN SDKS

SSML

Speech friendly prompts

Conversation management

SPEECH IN LUIS

Modeled conversations

Common model (Cortana, Bing speech, custom speech recognition)

LUIS

LANGUAGE UNDERSTANDING

Top requested features

- Production staging and versioning
- More languages (Dutch, Korean, dialects)
- Increased intent and entity limits
- 25 customizable prebuilt domains

More new features

- Lists
- Improved recognizers(*)
- Semantic dictionaries
- Spell checking

LUIS

LANGUAGE UNDERSTANDING

Pre-built domains

- Predefined packages
- Bootstrap model creation
- Customizable!

Examples of pre-built domains

Sports

Home automation

Contacts

Calendar

Restaurants

Entertainment

Home automation

Music

Translation

Movie tickets

Bot analytics

• Microsoft Teams • Bing • Direct Line • Email ... ∨ 4/7/2017 - 5/8/2017 GRAND TOTALS 0.1m 3.5m RETENTION - % USERS WHO MESSAGED AGAIN (LAST 10 DAYS) 5241 15% 5/7/2017 USERS 67k MESSAGES 2.3m

Murphy

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Demo

LUIS lists and auto recommendations

Azure bot service v.Next

SNEAK PEEK

"One stop shop for building bots"

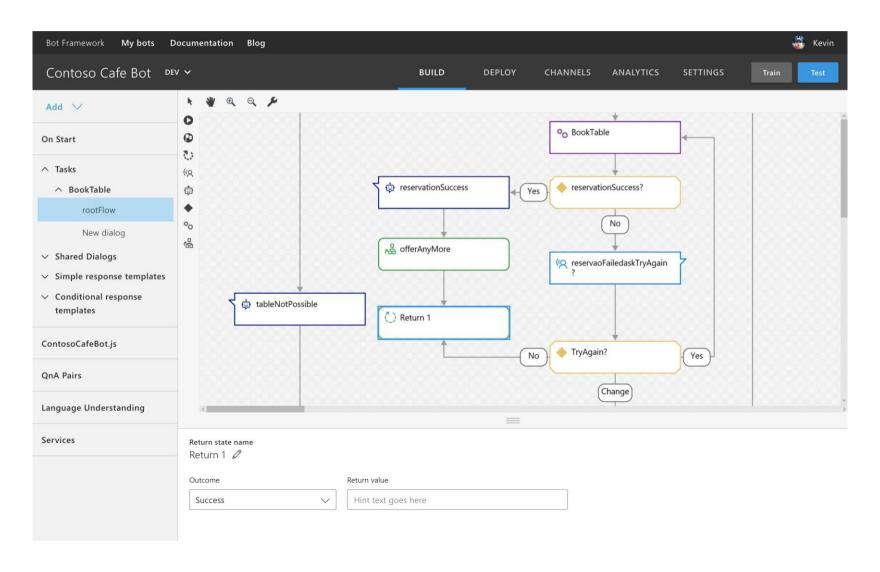
- Fully Azure integrated
- Conversational vs. business logic
- Richly tooled
- Design; code; deploy; manage; analyze

Highlights

- Data stays in a user's subscription
- Improved perf via colocation
- Bot + functions + LUIS runtime
- SDK unification
- Componentization and reuse

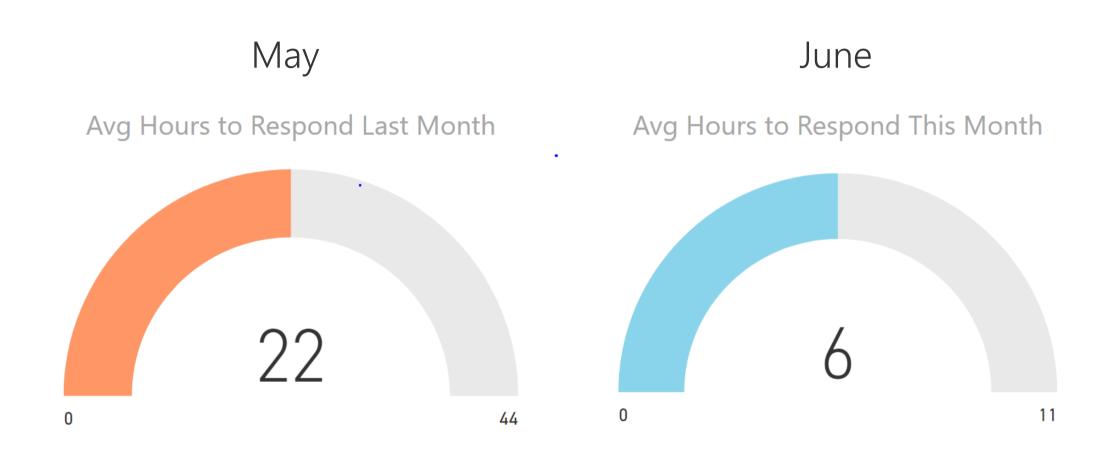
Azure bot service v.Next

Conversation designer



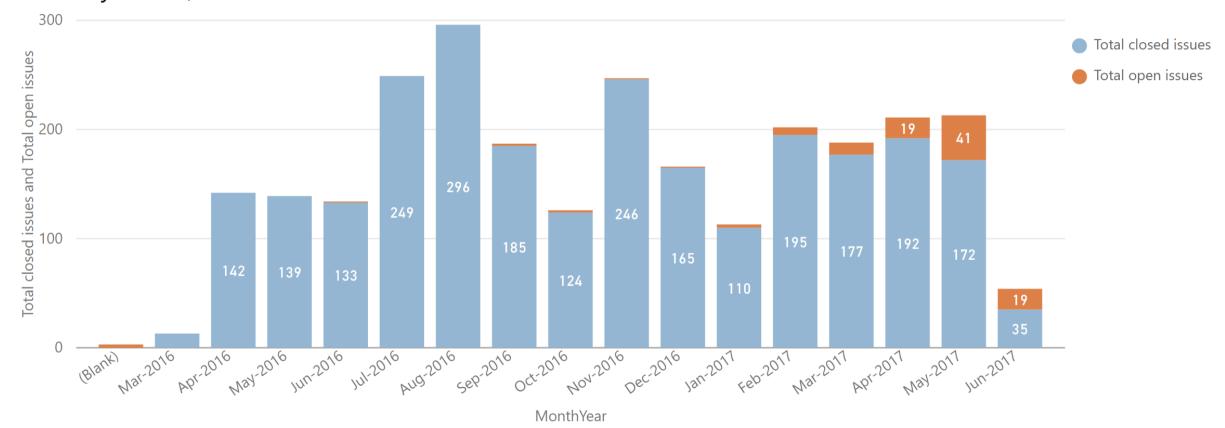
Community engagement

Support metrics, stack overflow



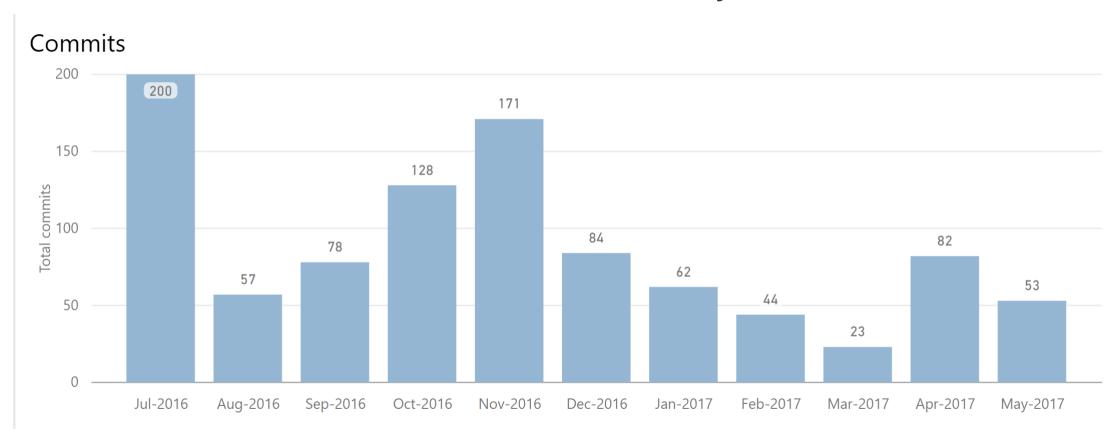
Support metrics, GitHub

Issues by Status, Date



GitHub contributions

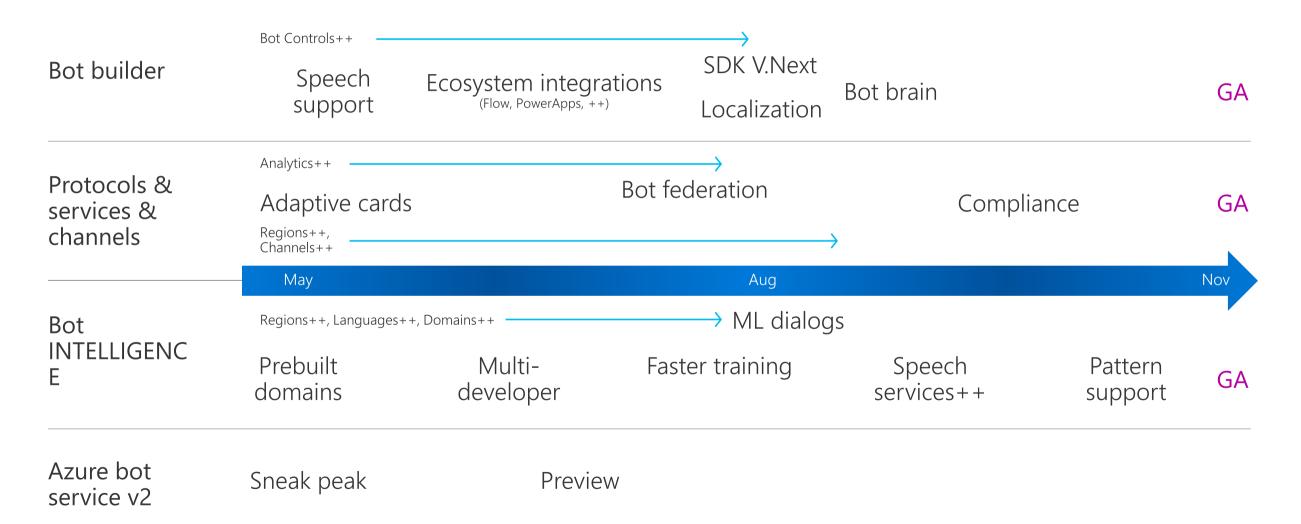
Vibrant community!



Call to action

- Build bots—https://dev.botframework.com/
- Docs—https://docs.microsoft.com/en-us/bot-framework/
- GitHub—<u>https://github.com/Microsoft/BotBuilder</u>
- Continue your education at Microsoft Virtual Academy online

Bot framework roadmap 2017



Questions?

Contact

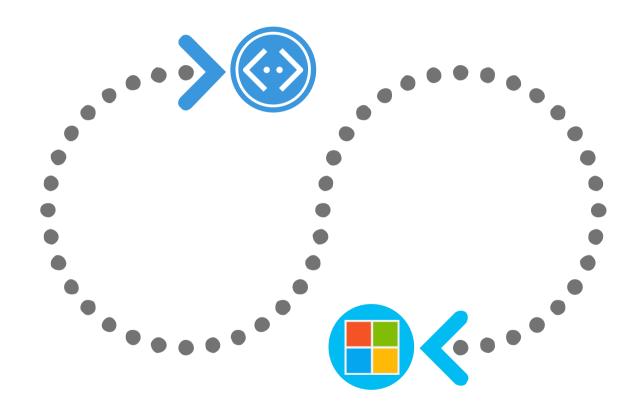
What is the bot framework?

Build and connect intelligent bots

The bot framework provides tools and resources for designing, building, deploying, and managing bots

Network of Microsoft customers

Bots connect to Microsoft properties, such as Cortana, LinkedIn, Skype, and Office 365



Bot example

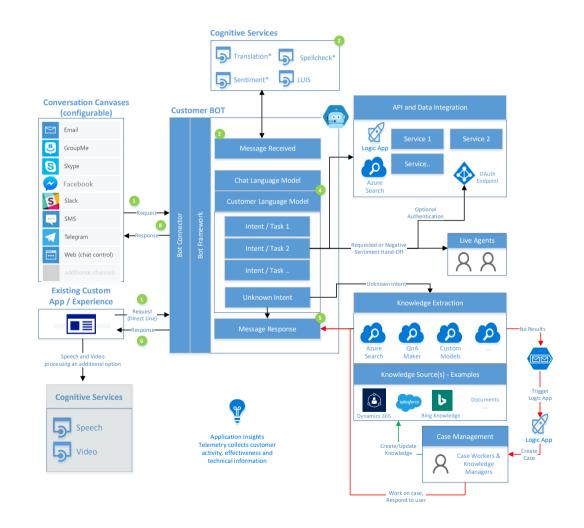
Azure Services integration via SMSG

Task completion and general knowledge are fundamental to every Bot we deliver

Language understanding, translation, spellcheck, and sentiment cognitive services are key

Dynamics 365 Knowledgebase provides a comprehensive and agile way to provide general knowledge to the Bot and tooling to the customer to manage knowledge and feedback and to manage support cases

Application insights provides highly impactful insight into technical and end user value



Bot framework surface area

Bot builder

Tools for conversational modeling, bot memory, and integration of business logic

Core platform

Provide developer broad access to Microsoft customers via Microsoft properties

Al and resources

Democratization of AI
 resources such as language understanding, QnA Maker, and other cognitive services

Payment card schema

Combination of bot framework and <u>W3C</u>

<u>Payment Request standard</u>

Familiar to bot devs, familiar to commerce devs

```
"from": { "id": "12345" },
                                               "conversation": { "id": "67890" },
                                                "attachments": [{
                                                    "contentType": "application/vnd.microsoft.card.payment",
                                                    "content": {
                                                        "merchantId": "23812529525",
                                                        "paymentMethodData": {
                                                            "supportedMethods": ["visa", "bitcoin"],
                                                        "paymentDetails": {
                                                            "total": {
                                                                "label": "Lawn Dart -- this is definitely not a
                                           dangerous toy",
                                                                "amount": { "currency": "USD", "value": "88.51" }
                                                            "shippingOptions": [{
                                                                "id": 'STANDARD',
                                                                "label": "Standard Shipping",
                                                                "amount": { "currency": "USD", "value": "12.52" },
                                                                "selected": "true"
                                                                "id": "EXPEDITED".
                                                                "label": "Two-Day Shipping",
                                                                "amount": { "currency": "USD", "value": "32.99" },
Bot Framework protocol
                                                        "paymentOptions": {
                                                            "requestPayerEmail": "true",
                                                            "requestShipping": "true"
                                                        "paymentEventUrl":
               W3C Schema
                                            "https://happyfuntoys.azurewebsites.net/api/payments",
                                                        "paymentEventState": { "data": "ABC1234" }
                                                }]
```

"type": "message".

