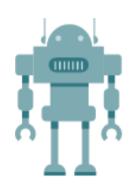
Building Intelligent Applications Using Bot Framework

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What is a Bot?





What a Bot is Not

It's not AI



It's not natural language processing only







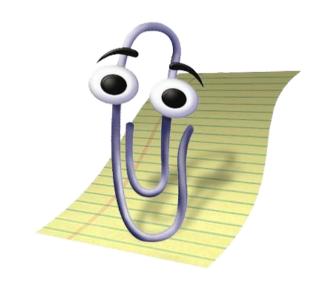
It's not text interfaces only





What is a Bot?

Simply put, a bot is an **application** that performs an automated task. That's it.





What Types of Bots are There?

Complexity

- Notifiers
- Reactors
- Responders
- Conversationalist



The Bot Life Cycle 1. Tangible problem 2. Ask: How is Improve bot better on current bot way 3. Get 4. Collect around bot heavy use metrics of NLP



Bots





Bot Builder SDK

Dev



Bot Framework Developer Portal



Bot Directory

Connect Publish

Bot Framework

Bot Framework

Bot Framework is a Microsoft – operated service and SDK

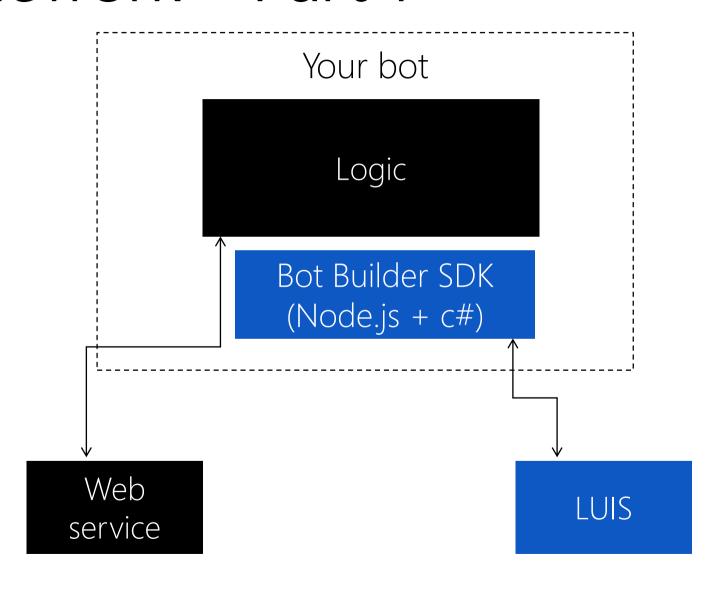
Bot Framework is one of many tools Microsoft offers for building a complete bot

Others include: LUIS, Speech APIs, Azure, more



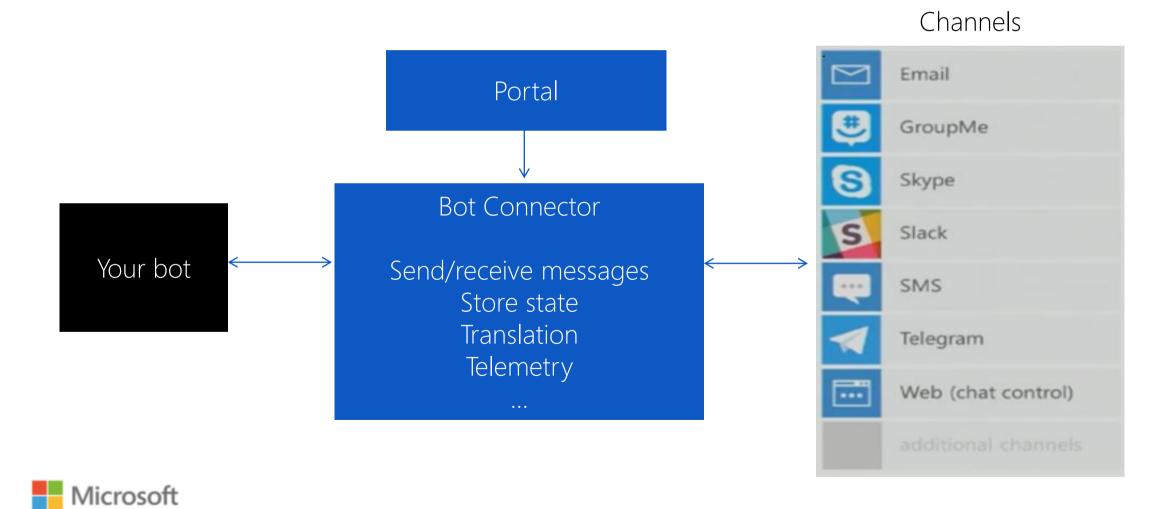


Bot Framework – Part 1





Bot Framework – Part 2 Bot Connector



Bot Connector Message

Your bot

Bot Connector

```
"type": "message",
"id": 68YrxqtB53Y",
"conversationId": "DphpaFQrDuZDKyCez4AFGcT4vy5aQDjellLGIjB8v18MFtb",
"language": "en",
"text": "You can say \ "/ order\" to order!",
"attachments": [],
"from" : {
   "name": "+12065551212",
   "channelld": "sms",
   "address": " +12065551212",
   "id": "Ro52hKN287",
   "isBot": false
"channelData" : { SMS data here },
```



Configuring Channels

- Take advantage of special features or concepts for a channel
- Send native metadata to that channel
- Pass extra properties via the ChannelData property





Custom Email Messages

When you reply to a message via the email channel, you can specify the following properties:

Property	Description
HtmlBody	The HTML to use for the body of the message
Subject	The subject to use for the message
Importance	The importance flag to use for the message (Low/Normal/High)

Example Message



Custom Telegram Messages

Sharing a voice memo, or a sticker

Property	Description
method	The Telegram Bot API method to call. See below for supported methods.
parameters	Associative array containing method parameters. Parameters are method-specific.

Example Message

```
2
3
4
5
6
7
                "type": "message",
                "locale": "en-Us",
               "channelID":"telegram",
"from": { "id":"12345", "name":"My Bot"},
                "recipient": { "id":"67890"}, "name":"Joe Doe"},
                "conversation": { "id": "123123123123", "topic": "awesome chat" },
                "channelData":
                     "method": "sendSticker",
                     "parameters":
12
13
                          "sticker":
14
15
                              "url": "https://upload.wikimedia.org/wikipedia/commons/3/33/LittleCarron.gif",
16
                              "mediaType": "image/gif"
18
19
```

Developer Portal: What Registration Does for You

Your bot's web service in the cloud



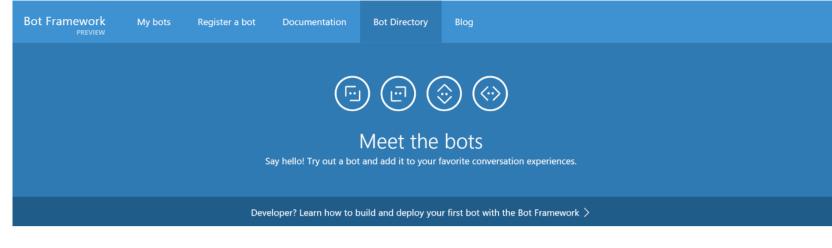
MS Bot Framework Connector







Bot Directory



Public Directory of Bot Framework Bots

https://bots.botframework.com/

- Discover, try, and add bots from here with no added configuration
- Bots are public at developer discretion; must be reviewed
- Searchable here



Featured Bots





Skyscanner

Skyscanner

The world's travel search engine



AzureBot

Microsoft

Be more productive with your own Microsoft Azure subscriptions using



Spock

Massively

Chat with Spock, second in command of the USS Enterprise, to



Hipmunk

Hipmunk, Inc.

Hi, hi! I'm a super-powered travel assistant Hipmunk who can dig



Jessie Humani

PullString, Inc.

Jessie Humani's life is in your hands. Will you help her make some



SI x GameOn ...

GameOn Technology

Love the NFL? Add the SI x GameOn NFL bot to get unparalleled



StubHub

StubHub Inc.

Finding tickets to sports, concerts and theater as easy as chatting with



Mica, the Hips...

LIKE A HIPSTER

Hi, I'm Mica, your local hipster adviser. I help you discover the best



Baymax

TrueCare24

Your personal healthcare companion. The service is available



MemeBot

Fernando Galván Medina

A simple bot that will assist you in your daily meme creation. You can



Cardea

Powered by RingMD

Meet Cardea, your personal medical aid. She will answer your health



Solitaire

Card Lion

Solitaire is the most popular card game in the world.



UNO

Card Lion

UNO world famous card game bot



Trivia Master

Microsoft

A fiendish quiz hosted by Professor T. Master.

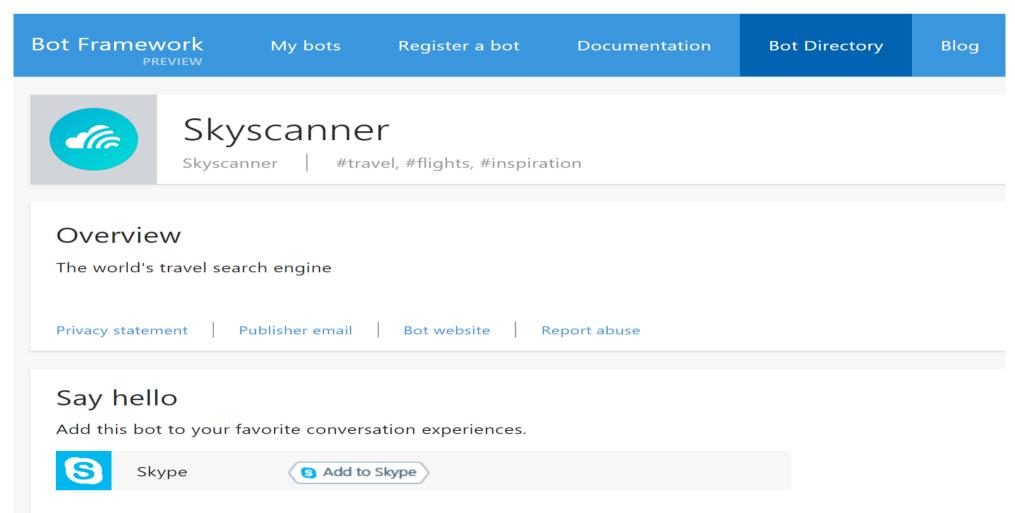


RemitRadar

RemitRadar

Artificial Intelligence remittance assistant chatbot. Helps you to find

Skyscanner





Skyscanner





Add to Contacts

The world's travel search engine

Capabilities

- Send and receive instant messages and photos

This bot will have access to your Skype Name, and any chat messages or content that you or other group participants share with it.







Home



Contacts





Skyscanner What's the start date...

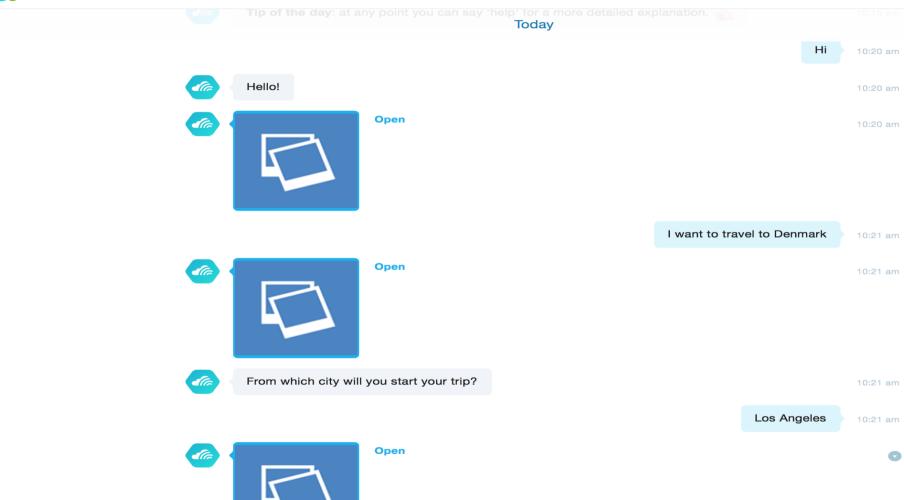


History



via Skype

Type a message here

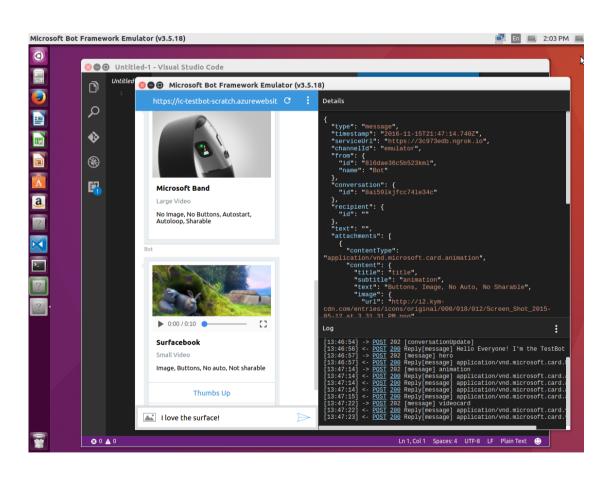








The BF Emulator to Test a Bot



- Support for Mac, Linux and Windows
- Send requests and receive responses to/from your bot endpoint on localhost

 Inspect the Json response Emulate a specific user and/or conversation



Working with Channels

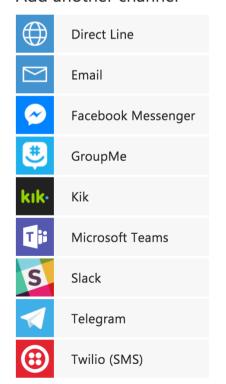


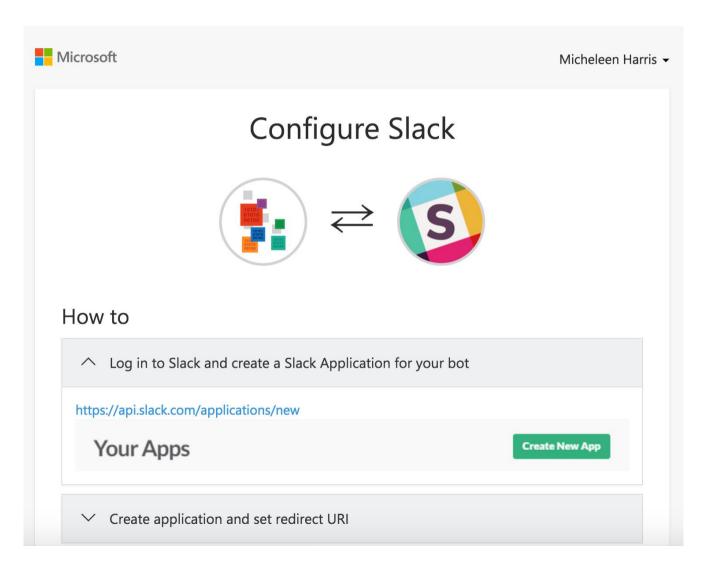
Adding a Channel

Microsoft

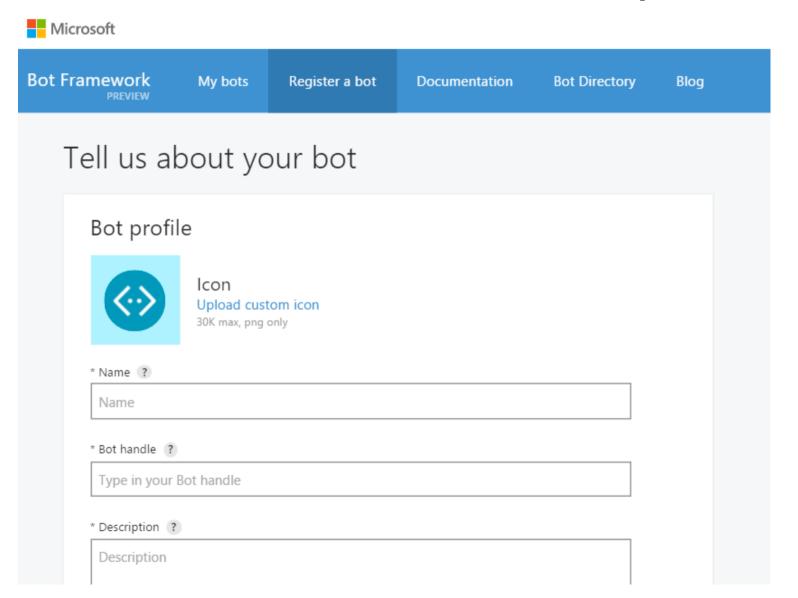
- Skype is added by default
- Instructions are laid out

Add another channel



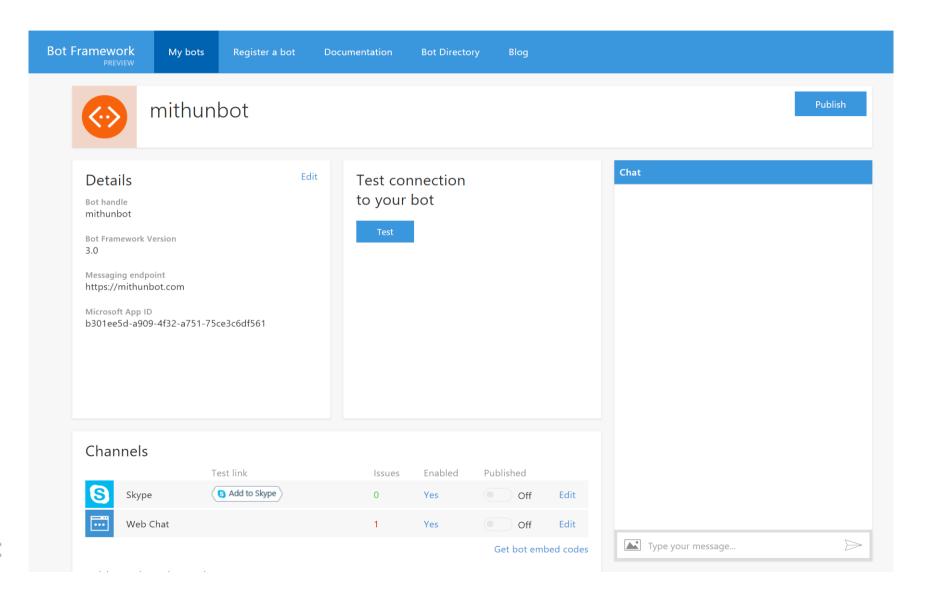


Register a Bot in The Developer's Portal





Register a Bot in The Developer's Portal





Register a Bot in The Developer's Portal

Channels



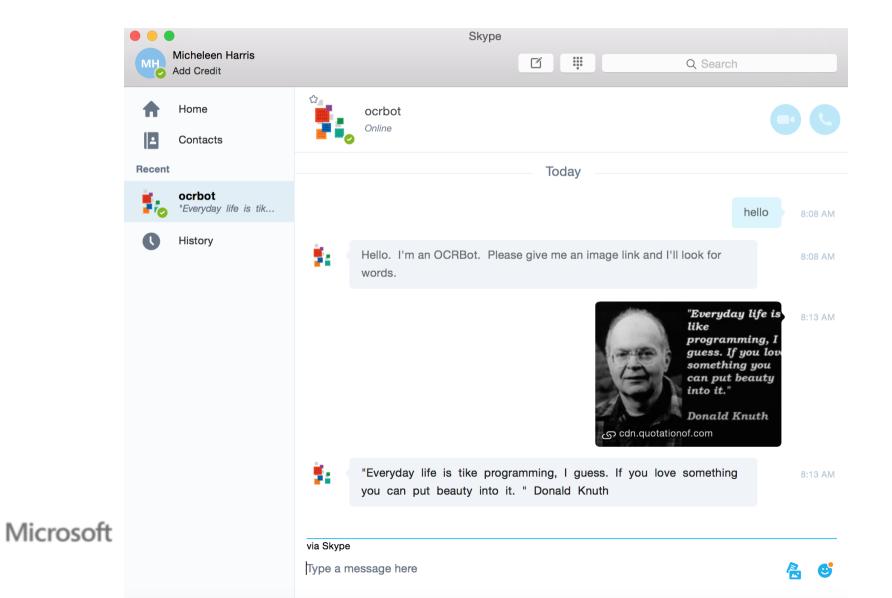
Get bot embed codes

Add another channel



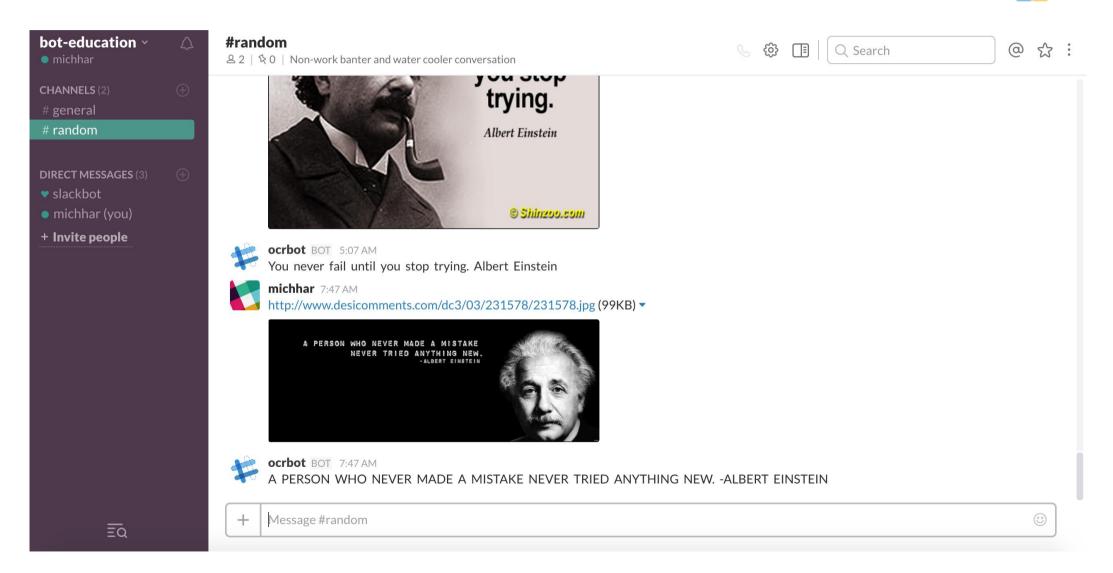


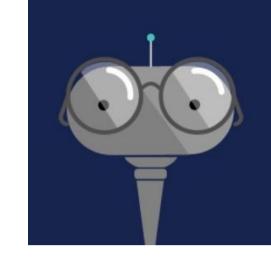
Skype Channel Example



Slack Channel Example







How to Make BOTs Smarter?

