

FUTURE DECODED

6-7 OTT '16 / MILANO

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#FutureDecoded

Bots e cognitive services

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What's a Bot

- A bot is a software typically connected to the web, able to interact with users by AI or ML techniques retrieving information from different channels.
- Developers writing bots all face the same problems: bots require basic I/O
 - they must have language and dialog skills
 - they must be performant, responsive and scalable
 - they must connect to users in any conversation experience and language the user chooses

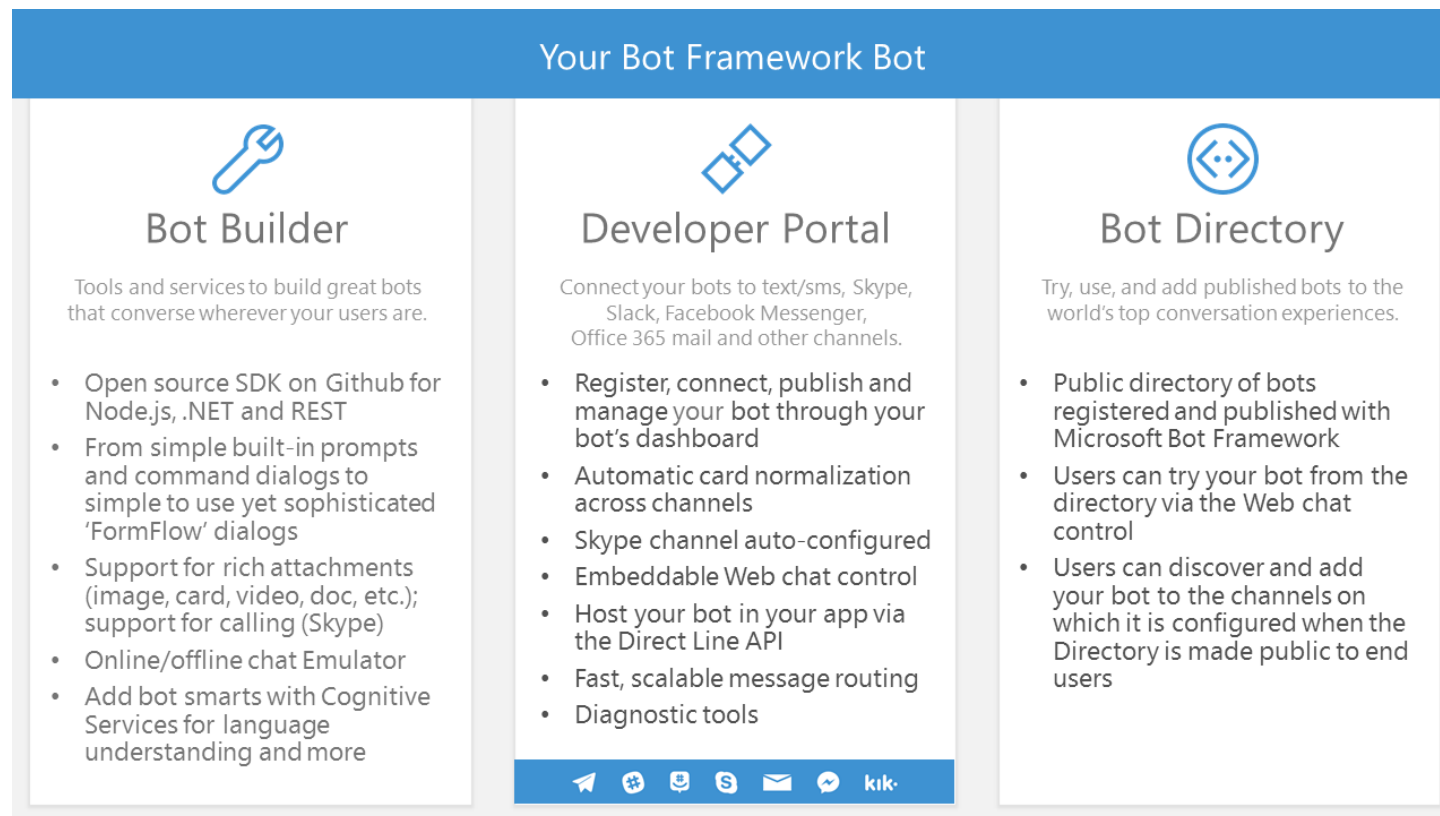
Why bots

- According to the recent report (by My Clever Agency), the chatbot
 - Are the preferred channel by consumers (84.6%) to obtain answers to simple questions.
 - Ranking second only after interactions face to face, and a lot more phone, social media, chat operators, online form or email.
 - Also today, consumers have a more positive perception Bots than they have mobile application.

Microsot Bot Framework

- Microsoft Bot Framework is a comprehensive offering to build and deploy high quality bots.
- Provides just what you need to build
- connect, manage and publish intelligent bots from different channels:
 - text/sms, Skype, Slack, Facebook Messenger, Kik, Office 365 mail and other popular services.
- <https://dev.botframework.com/>

Microsoft Bot Framework




Microsoft Bot Framework – Bot Builder SDK

- The Bot Builder SDK is an open source SDK that provides everything you need to build your Bot, available for
 - Node.js
 - .NET
 - REST API


Microsoft Bot Framework – Bot Framework Developer Portal

- Lets you connect your bot(s) seamlessly with
 - text/sms, Skype, Slack, Facebook Messenger, Office 365 mail, other...
- 1. Register your bot,
- 2. configure desired channels
- 3. publish in the Bot Directory.
- All bots registered with Bot Framework are auto-configured to work with Skype and the Web.

Microsoft Bot Framework – Bot Framework Developer Portal

 Sebastianio

[Bot Framework PREVIEW](#) [My bots](#) [Register a bot](#) [Documentation](#) [Bot Directory](#) [Blog](#)

 **Comune di Solarino** [Publish](#)
Sebastiano Galazzo | #comune, #amministrazione, #enti comunali

Details





[Edit](#)
Bot handle
comunesolarino

Bot Framework Version
3.0

Messaging endpoint
https://comunesolarino.azurewebsites.net/api/mess...


Microsoft App ID
68c3c968-cc43-476d-9ec3-76ff305488c3

Channels

	Test link	Issues	Enabled	Published	
 Facebook Messenger	Message Us	0	Yes	<input type="checkbox"/> Off	Edit
 Skype	Add to Skype	0	Yes (Preview)	<input type="checkbox"/> Off	Edit
 Telegram	@ComuneSolarinoBot	0	Yes	<input type="checkbox"/> Off	Edit
 Web Chat		0	Yes	<input type="checkbox"/> Off	Edit

[Get bot embed codes](#)

Add another channel

 Direct Line [Add](#)

Microsoft Bot Framework – Bot Directory

- The Bot Directory is a public directory of all reviewed bots registered through the Developer Portal.
- Users will be able to discover, try, and add bots to their favorite conversation experiences from the Bot Directory.

Microsoft Bot Framework – Bot Builder

High Level Features:

- Powerful dialog system with dialogs that are isolated and composable.
- Built-in dialogs for simple things like Yes/No, strings, numbers, enumerations.
- Built-in dialogs that utilize powerful AI frameworks like [LUIS](#).
- Bots are stateless which helps them scale.
- [FormFlow](#) for automatically generating a C# class that supports help, navigation, clarification and confirmation.
- SDK source code is found on <http://github.com/Microsoft/botbuilder>

Bot builder - Install



23.756

Downloads

1.875

Downloads of v 3.2.1

127

Average downloads per day

2016-09-14

Last published

[Project Site](#)

[Contact Owners](#)

[Report Abuse](#)

[Download \(how-to\)](#)

[Package Statistics](#)



Share on Social Networks

Microsoft.Bot.Builder 3.2.1

Microsoft Bot Builder is a powerful framework for constructing bots that can handle both freeform interactions and more guided ones where the possibilities are explicitly shown to the user. It is easy to use and leverages C# to provide a natural way to write bots.

High Level Features:

- * Powerful dialog system with dialogs that are isolated and composable.
- * Built-in dialogs for simple things like Yes/No, strings, numbers, enumerations.
- * Built-in dialogs that utilize powerful AI frameworks like LUIS <http://luis.ai>.
- * Bots are stateless which helps them scale.
- * Form Flow for automatically generating a Bot from a C# class for filling in the class and that supports help, navigation, clarification and confirmation.

You might also be interested in the NuGet package `Microsoft.Bot.Builder.FormFlow.Json` that extends the Bot Builder with the ability to declaratively define FormFlow dialogs with JSON Schema.

To install Microsoft.Bot.Builder, run the following command in the [Package Manager Console](#)

```
PM> Install-Package Microsoft.Bot.Builder
```

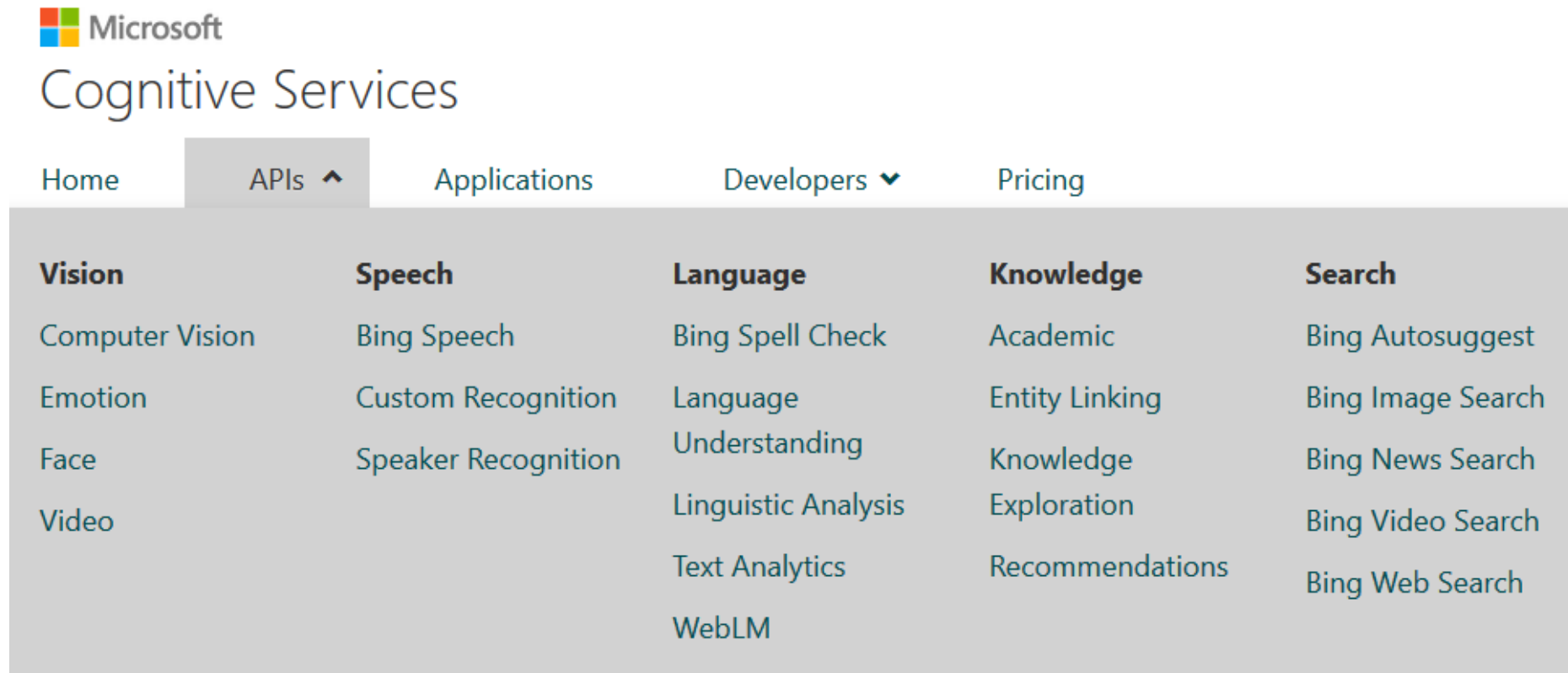
Owners



BotFramework



Microsoft Cognitive Services



The screenshot shows the Microsoft Cognitive Services website. At the top is the Microsoft logo and the text "Cognitive Services". Below this is a navigation bar with links: Home, APIs (selected), Applications, Developers, and Pricing. The main content area is a grid of service categories and their respective APIs.

Vision	Speech	Language	Knowledge	Search
Computer Vision	Bing Speech	Bing Spell Check	Academic	Bing Autosuggest
Emotion	Custom Recognition	Language Understanding	Entity Linking	Bing Image Search
Face	Speaker Recognition	Linguistic Analysis	Knowledge Exploration	Bing News Search
Video		Text Analytics	Recommendations	Bing Video Search
		WebLM		Bing Web Search

Microsoft Cognitive Services – LUIS

- Understand language contextually, so your app communicates with people in the way they speak.
- Library inside Bot Builder
- Client library also available on Github for not projects Bots
 - <https://github.com/Microsoft/Cognitive-LUIS-Windows>
- <https://www.luis.ai/>

DEMO

LUIS

A working Bot

Face recognition

Image description

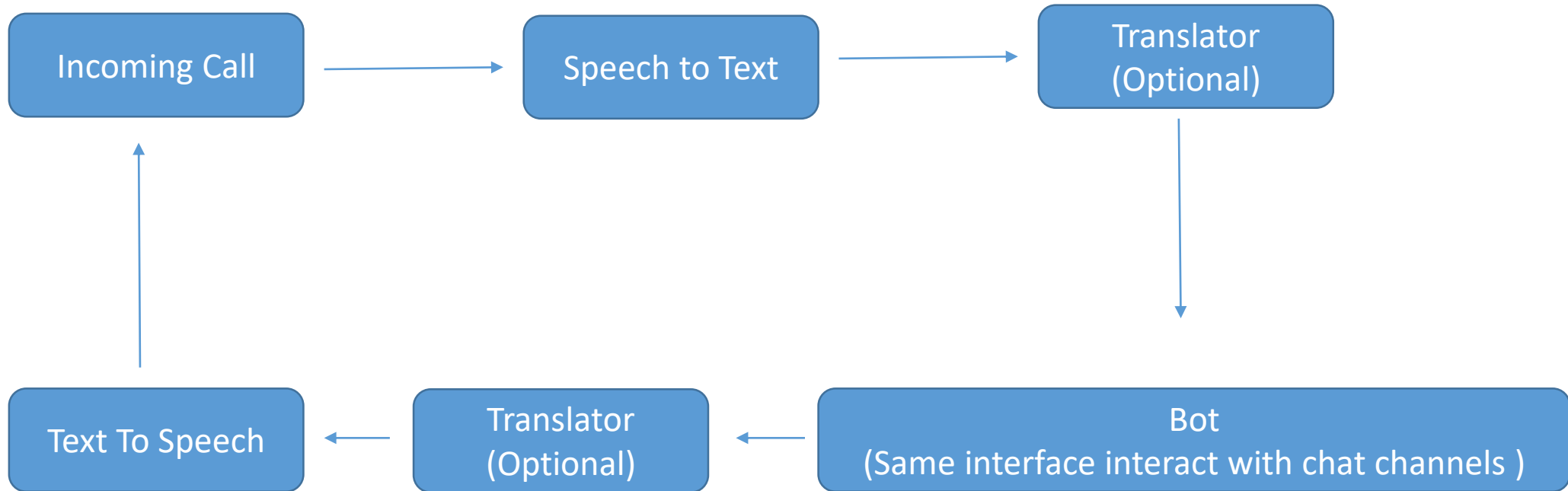
Bot – Bing Search API

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Skype Call Management



Skype call

[Video demo](#)



Domande?

Materiale su

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