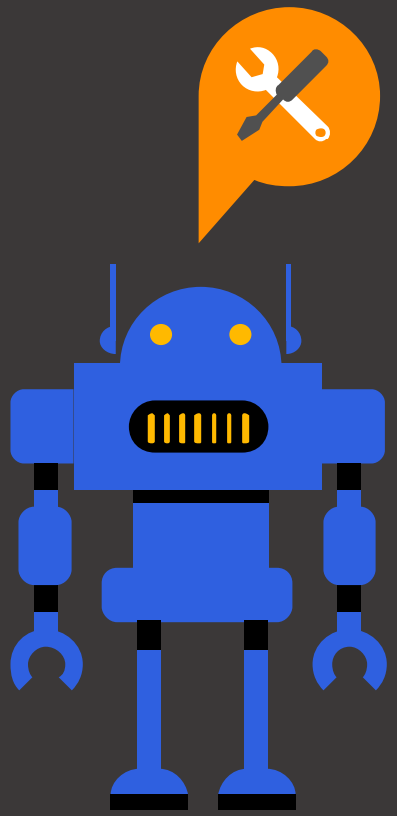
Microsoft

Hands on: Microsoft Bot Framework and Cognitive Services



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Microsoft Bot Framework

Bot Framework Components

Bot Builder SDKs

Build great dialogs within your Node.js- or C#-based bot

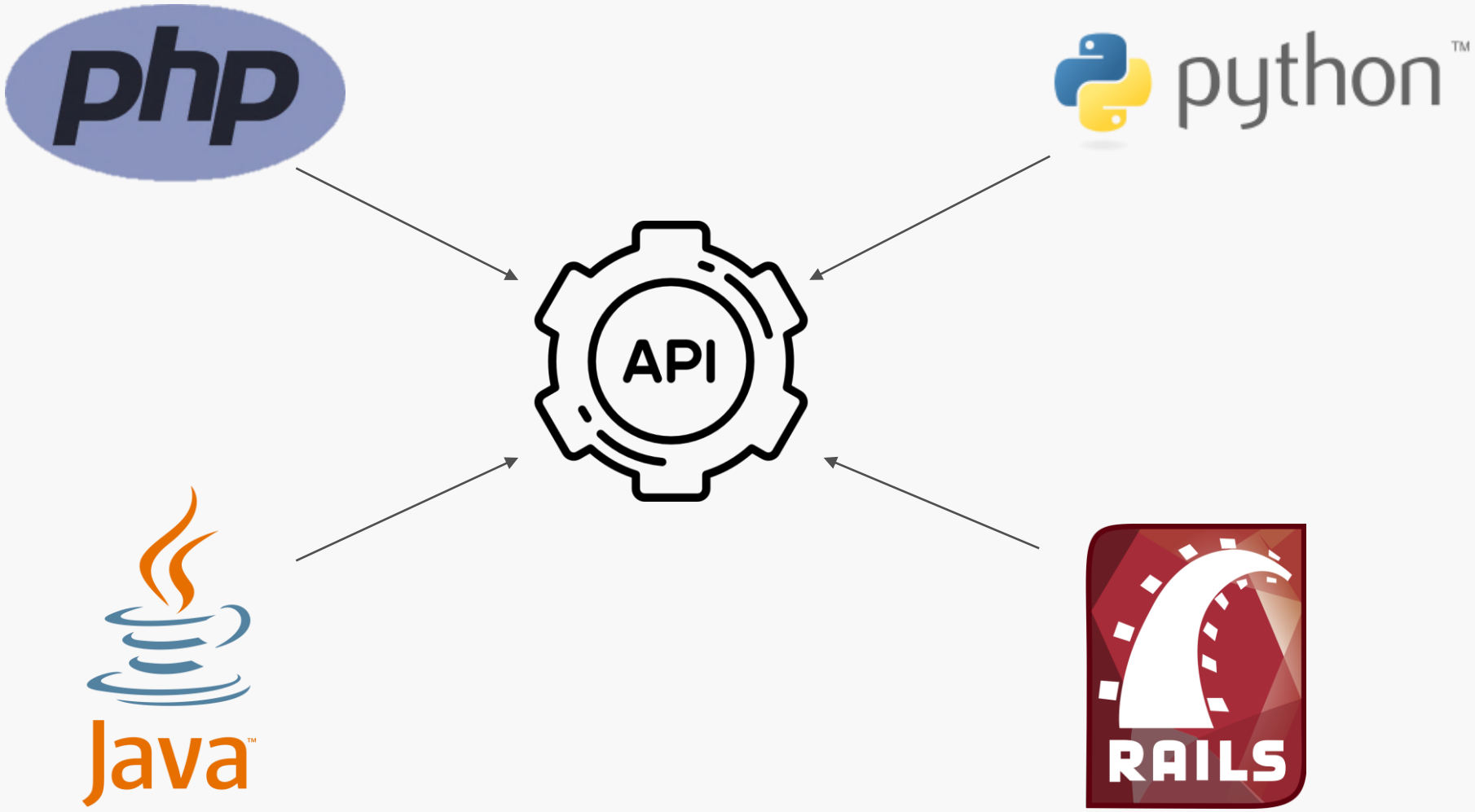
Bot Connector

Connect your bot to sms, Office 365 mail, Skype, Slack, etc.

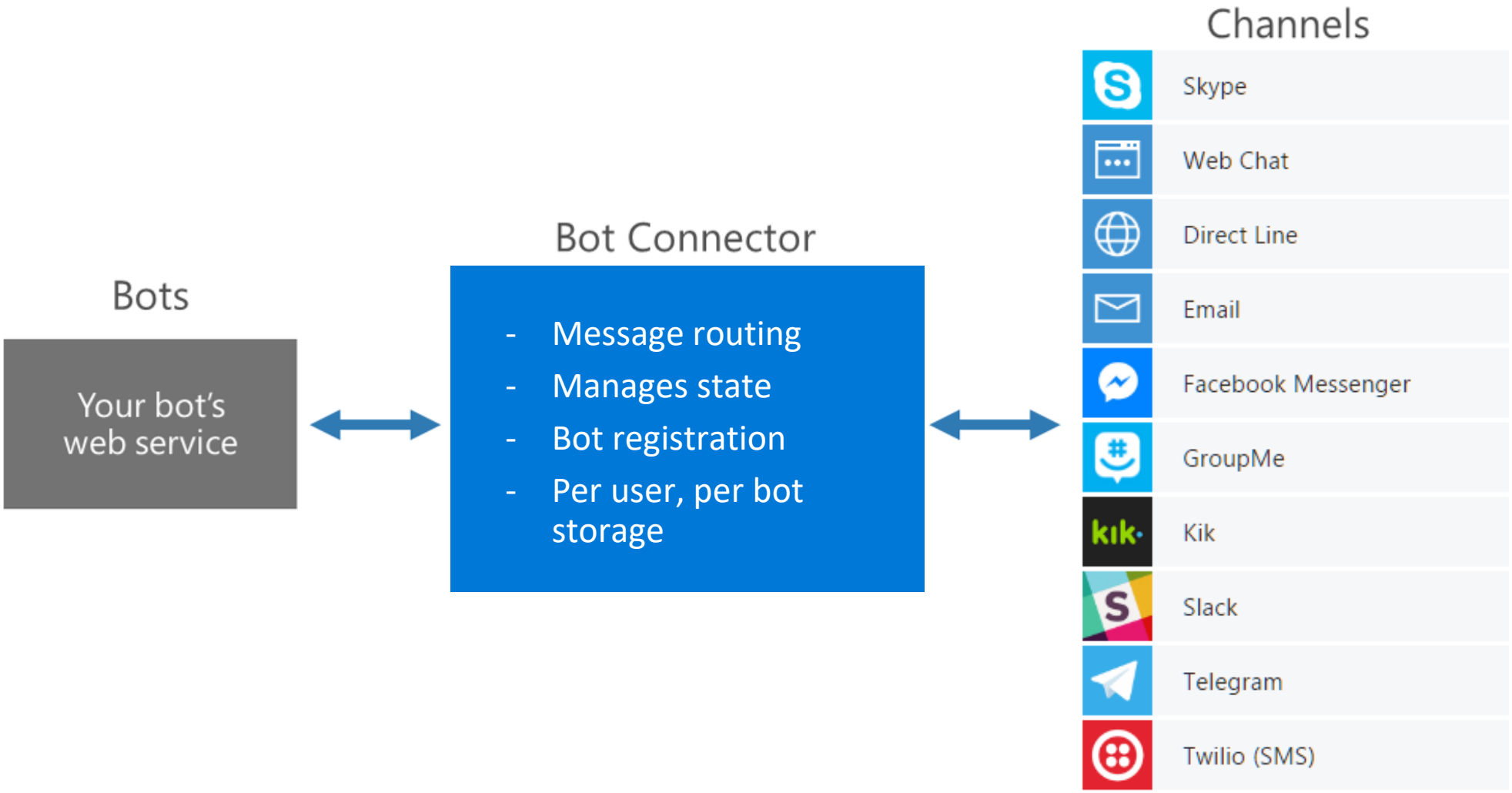
Bot Directory

Publish bots and try others on the bot directory

No C# or Node? No problem!



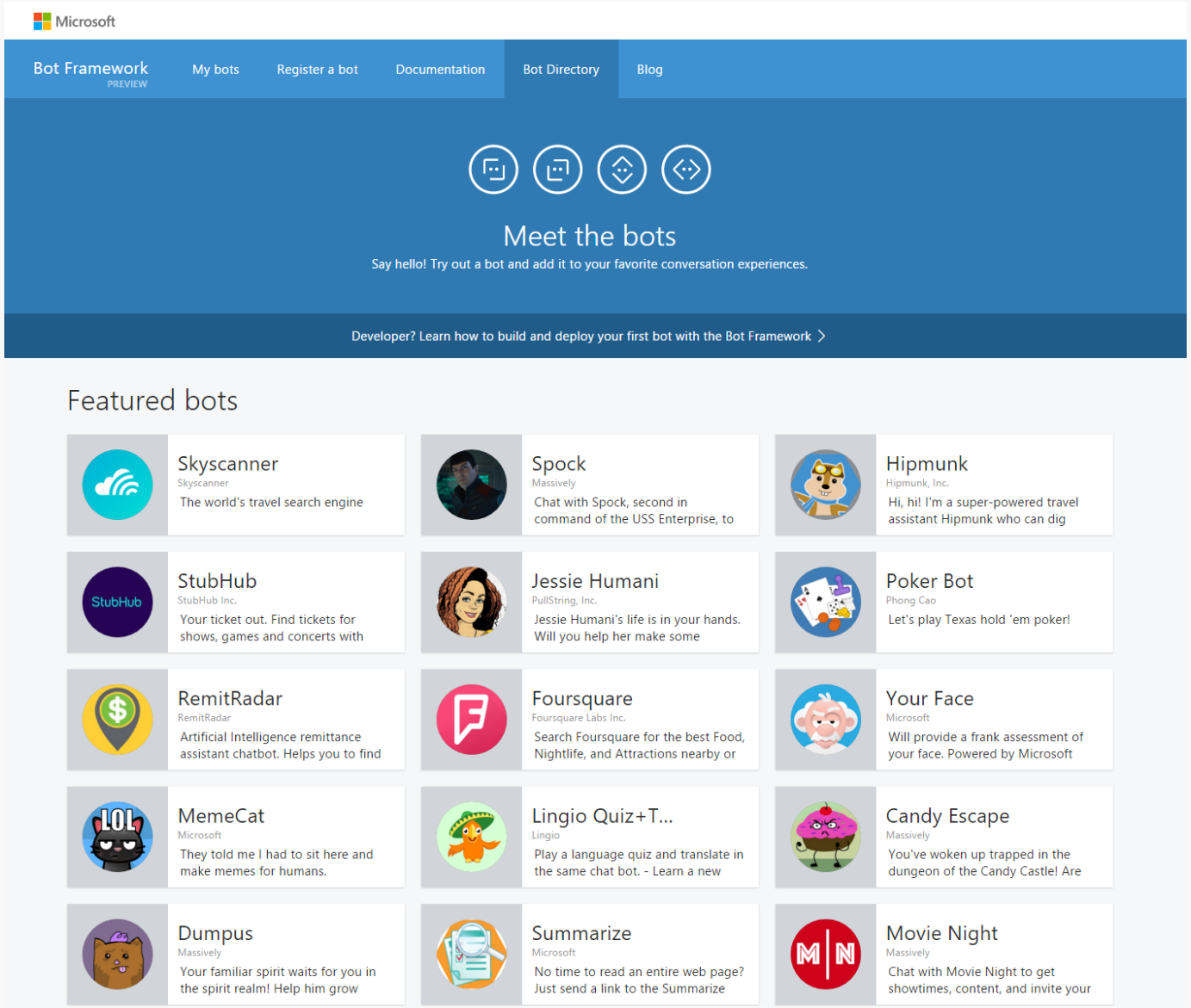
Bot Connector



Bot Directory

Public Directory of Bot Framework Bots

- Submit yours
- Search engine
- Discover and try

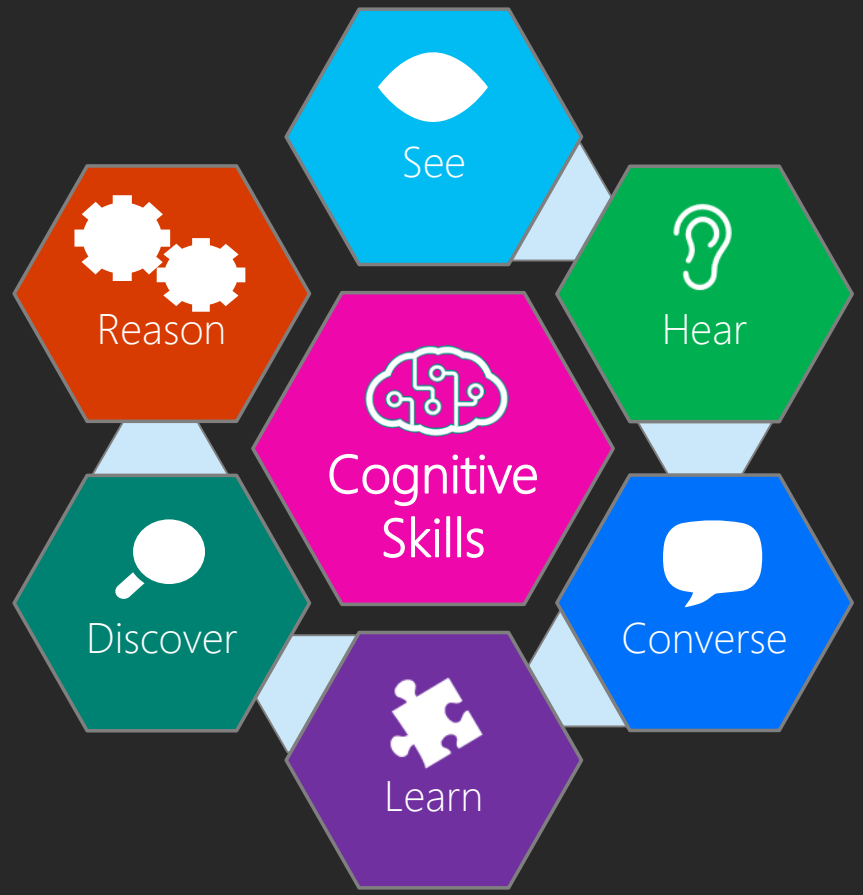


Microsoft Cognitive Services

Add Cognitive Skills
to your Bots

GOAL

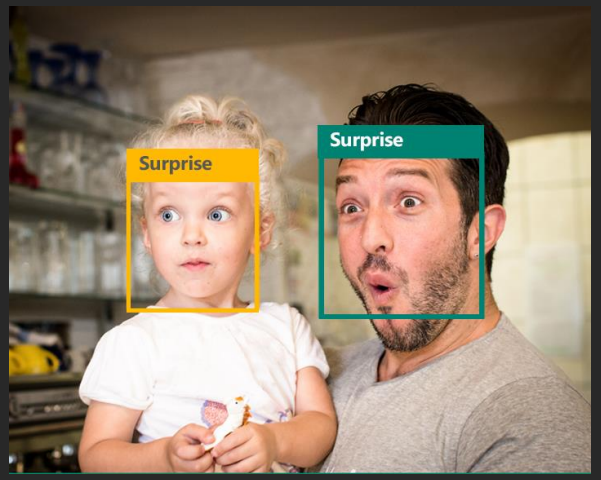
Build **smarter** experiences that
delight and **engage** your users

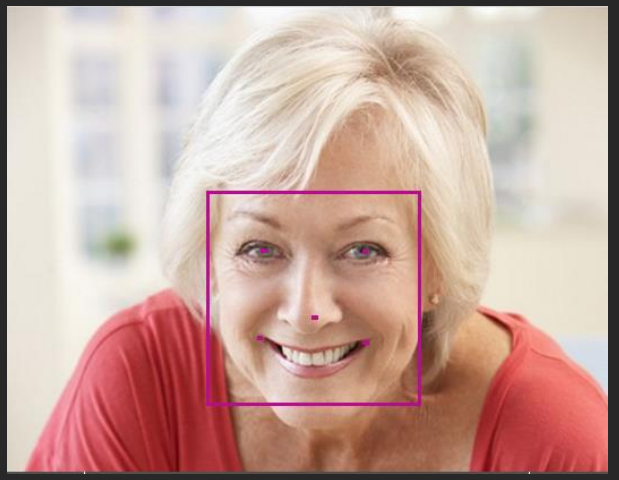


Computer Vision Skills

Distill actionable information from images

From objects, to faces, and feelings, analyze images and take action



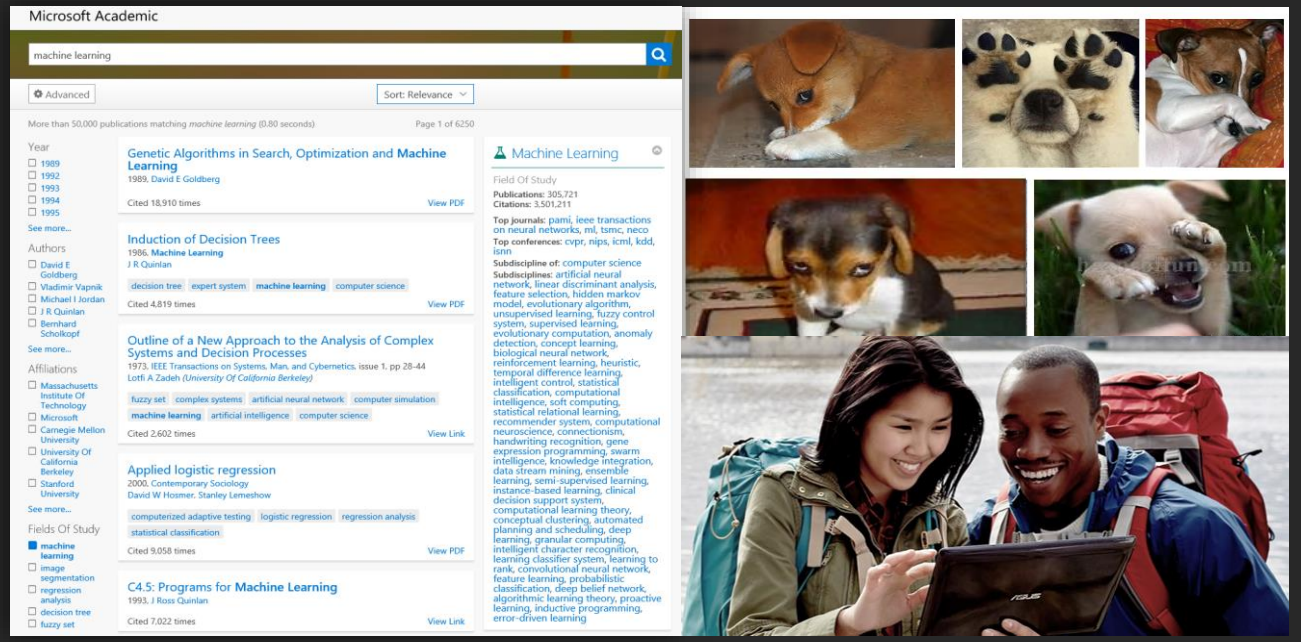


Category	People; 1 face found
Adult / Racy?	False / True
Black & White?	No
Dominant colors	
Accent color	

Knowledge & Search Skills

Search and extract knowledge from the web or your data

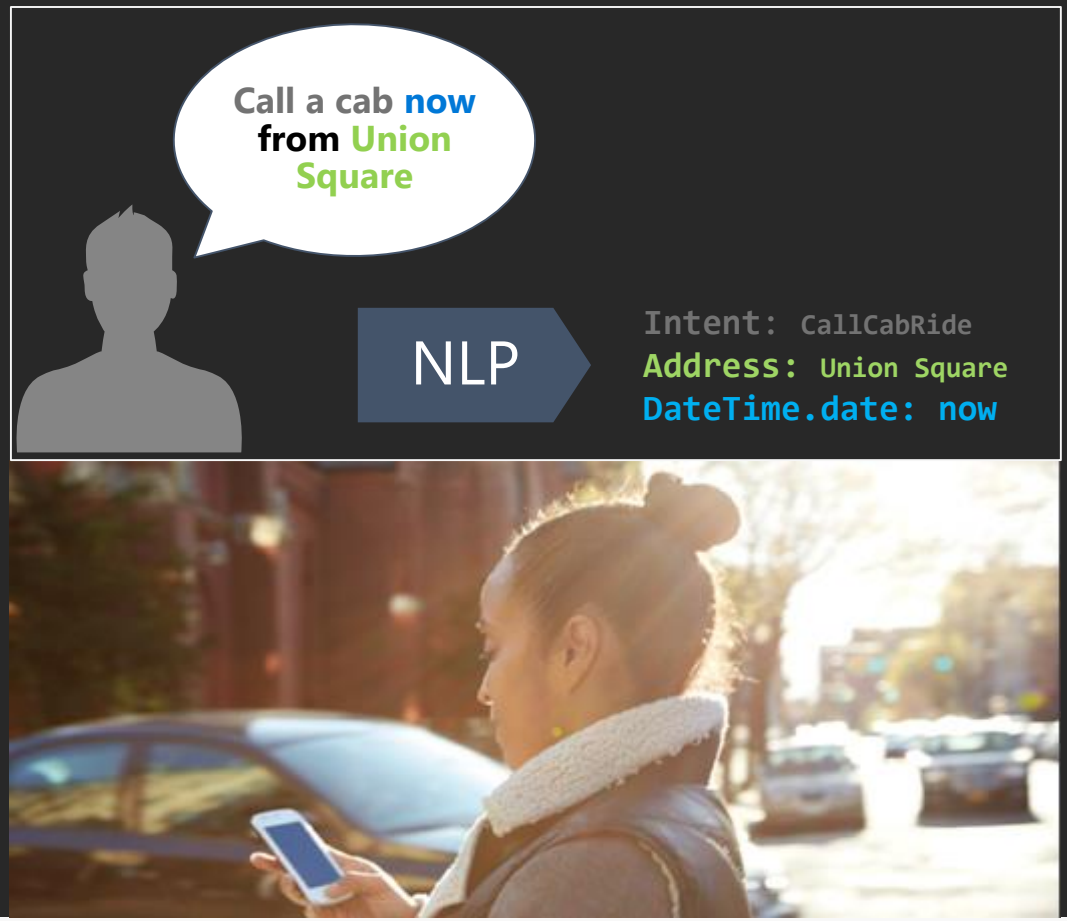
Enable intelligent search experiences over your own data or the collective knowledge of the web



Dialog and Language Skills

Build dialogs and engage with users in a natural way

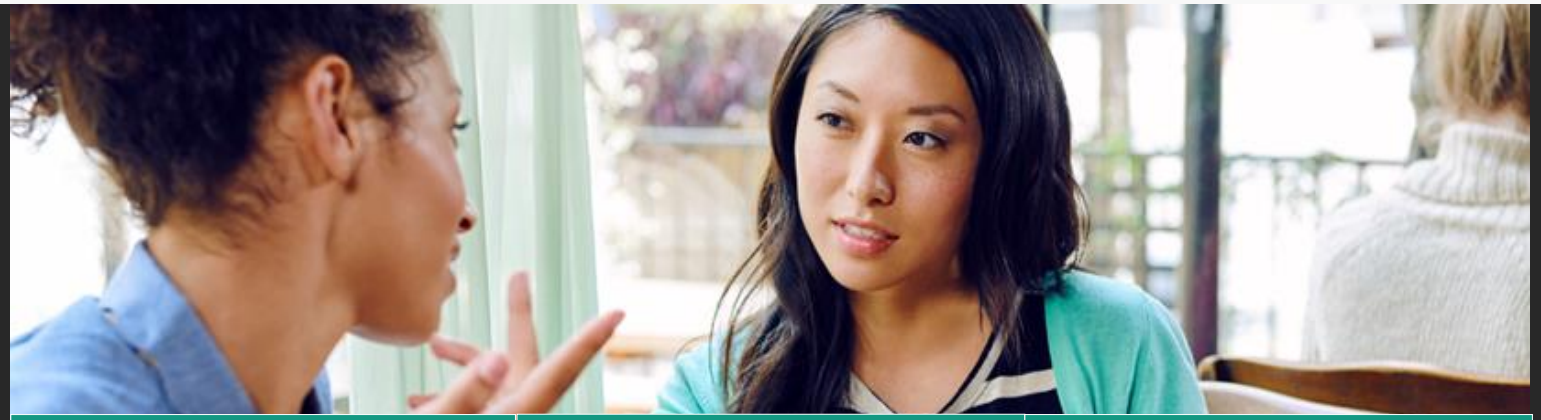
Understand and process natural language, determine users' intent, and respond with actions



Speech Skills

Hear, understand, and speak back to users

Recognize what the user said, who said it, and respond with text to spoken audio



Speech Recognition	Speaker Recognition	Text to Speech Conversion
450 6th St. San Francisco	? Anna Is this Anna's voice?	

MISSION MARS : FOURTH HORIZON
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Your team has just crash landed on Mars.

Fortunately you are all alive.

The problem is, you guys need a way to survive while the rescue team comes to save you. After a few days, you and your friends are struggling to stay civilised. You also find some unidentifiable objects around Mars that may be a threat.

Your team decides to build a bot.

The bot will help get news from civilisation for you. It will also help analyse images of unidentifiable objects that you send to it.

You have ~~one~~ three jobs

1. To set up the bot and give it a brain
2. Get news from Earth
3. Use computer vision to analyse objects on Mars

Here's what's going to happen.

We will go through Mission 1 together to get you started.

For Mission 2, you will be following the hands on labs in your teams.

And for Mission 3 – you're on your own! (with a few hints of course)

The rules:

- All members of your team must complete each mission to move on to the next
- All people on the team put your hand up when you've finished the mission
- We will do code checks at the end of every mission

MISSION MARS : FOURTH HORIZON
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Github.com/alyssaong1/bot-framework-HOL