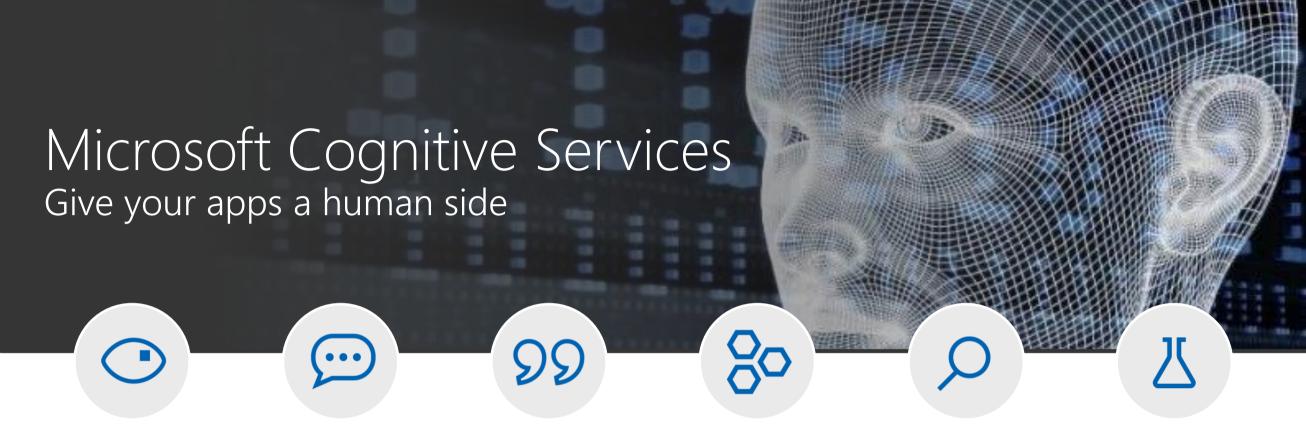


# Cognitive Services

Ryan Miller





### **Vision**

From faces to feelings, allow your apps to understand images and video

### Speech

Hear and speak to your users by filtering noise, identifying speakers, and understanding intent

### Language

Process text and learn how to recognize what users want

### Knowledge

Tap into rich knowledge amassed from the web, academia, or your own data

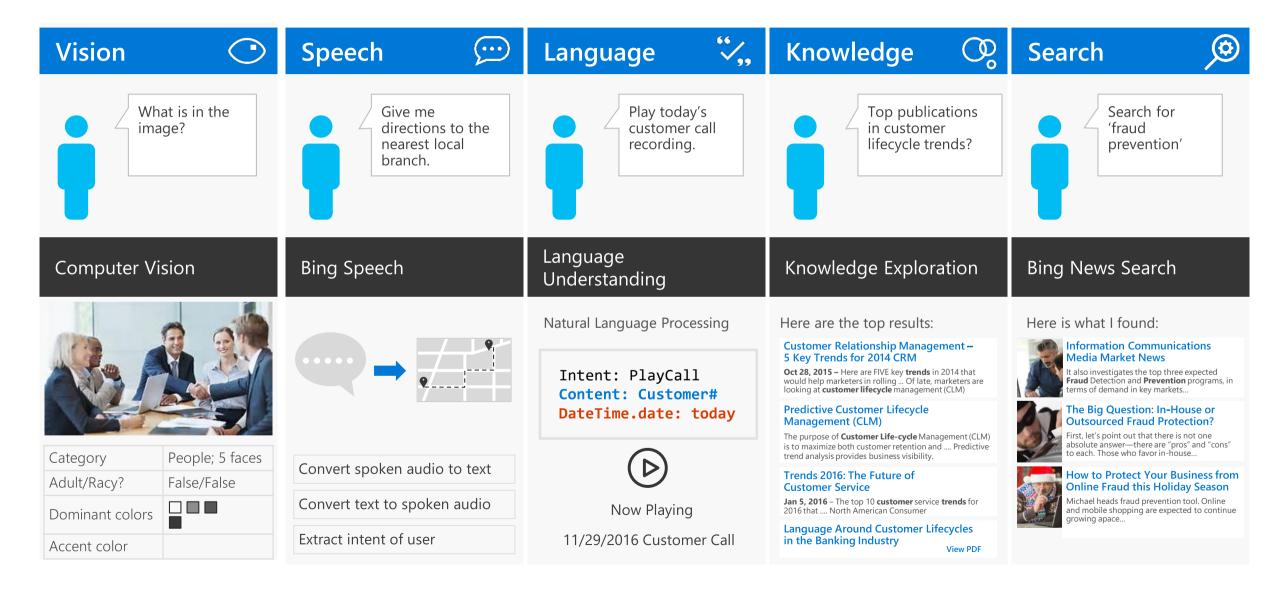
### Search

Access billions of web pages, images, videos, and news with the power of Bing APIs

#### Labs

An early look at emerging Cognitive Services technologies: discover, try and give feedback on new technologies before general availability

# A variety of real-world applications





Easy

Roll your own with REST APIs Simple to add: just a few lines of code required



### Flexible

Integrate into the language and platform of your choice Breadth of offerings helps you find the right API for your app Bring your own data for your custom experience











**Tested** 

Built by experts in their field from Microsoft Research, Bing, and Azure Machine Learning

Quality documentation, sample code, and community support









# Demo

https://github.com/Microsoft/Cognitive-Samples-IntelligentKiosk





#### **Computer Vision API**

Distill actionable information from images



#### **Face API**

Detect, identify, analyze, organize, and tag faces in photos



#### **Emotion API**

Personalize experiences with emotion recognition



#### **Content Moderator**

Machine-assisted moderation of text and images, augmented with human review tools



#### **Custom Vision Service**

Customizable web service that learns to recognize specific content in imagery



#### **Video Indexer**

Process and extract smart insights from videos





#### **Bing Speech API**

Convert speech to text and back again, and understand its intent



#### **Speaker Recognition API**

Give your app the ability to know who's talking



#### **Custom Speech Service**

Fine-tune speech recognition for anyone, anywhere

# Language



#### **Bing Spell Check API**

Detect and correct spelling mistakes within your app



## **Language Understanding Intelligent Service**

Teach your apps to understand commands from your users



#### **Web Language Model API**

Leverage the power of language models trained on web-scale data



#### **Text Analytics API**

Detect sentiment, key phrases, topics, and language from your text



#### **Linguistic Analysis API**

Easily parse complex text with language analysis



#### **Translator**

Easily perform speech and text translation



# Knowledge



#### **Academic Knowledge API**

Explore relationships among academic papers, journals, and authors



#### **Recommendations API**

Provide personalized product recommendations for your customers



#### **Knowledge Exploration Service**

Add interactive search over structured data to your project



#### **Custom Decision Service**

Create custom experiences with adaptive, contextual decision-making



#### **Entity Linking Service**

Contextually extend knowledge of people, locations, and events



#### **QnA Maker**

Distill information into conversational, easy-to-navigate answers



## Search



#### **Bing Web Search API**

Connect powerful search to your apps



#### **Bing Image Search API**

Bring advanced image and metadata search to your app



#### **Bing Video Search API**

Trending videos, detailed metadata, and rich results



#### **Bing News Search API**

Link your users to robust and timely news searches



#### **Bing Autosuggest API**

Give your app intelligent autosuggest options for searches



#### **Bing Entity Search**

Enrich user experiences with contextual entity search results



#### **Bing Custom Search**

Create a highly-customized web search experience



# Microsoft Cognitive Services Labs

labs.cognitive.microsoft.com An early look at emerging Cognitive Services technologies: discover, try, and give feedback on new technologies before general availability



**Project Gesture** 

Gesture based controls



**Project Personality Chat** 

Bot small talk w/ personality



**Project Ink Analysis** 

Understand digital ink



**Project Anomaly Finder** 

Monitory data over time.



#### **Project URL Preview**

**URL Preview and Moderation** 



#### **Project Local Insights**

Score location attractiveness

# Pricing

With Microsoft Cognitive Services you are only charged for what you use. Services typically have multiple tiers (e.g. free, standard) and users are charged for calls to the API.

For example here are the tiers and transaction charges for the Face API:

TIER	FEATURES	PRICE
Face API – free	Up to 20 transactions per minute	30,000 free transactions per month
Face API – standard	Up to 10 transactions per second	
	0–1,000,000 transactions	\$1.50 per 1,000 transactions
	1,000,001–5,000,000 transactions	\$1.10 per 1,000 transactions
	5,000,001–20,000,000 transactions	\$0.65 per 1,000 transactions

