



Al is about amplifying human ingenuity with intelligent technology



Reasoning

Learn and form conclusions with imperfect data



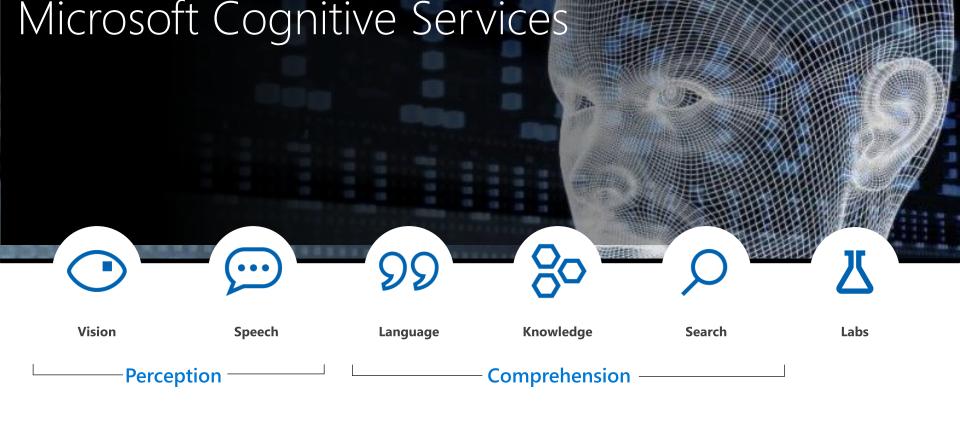
Understanding

Interpret meaning of data including text, voice, images



Interacting

Interact with people in natural ways



Microsoft Cognitive Services













Vision

Computer Vision

Face

Emotion

Video Indexer Speaker Recognition

Content Moderator

Custom Vision

Speech

Bing Speech

Custom Speech

Translator Speech

Unified Speech

Speech to Text w. Custom Speech

Text to Speech w. Custom Voice

Speech Translation w. Custom Translator

Language

Text Analytics

Bing Spell Check

Translator Text

Language Understanding (LUIS)

Knowledge

QnA Maker

Custom Decision

Search

Bing Entity Search

Bing Autosuggest

Bing Search

Image Search

News Search

Video Search

Bing Statistics add-in

Bing Visual Search

Bing Custom Search

Labs **Project Gesture**

Project Local Insights Project Academic

Knowledge

Project Entity Linking

Project Knowledge

Exploration

Project Event Tracking

Web Search

Project Answer Search

Project URL Preview

Project Anomaly Finder

Project Conversation Learner

Project Personality Chat



Microsoft Cognitive Services Labs



Project Conversation Learner

Teach new behaviors to task-oriented conversational interfaces through example interactions



Project Academic Knowledge

Tap into the wealth of academic content in the Microsoft Academic Graph



Project Personality Chat

Enhance your bot's conversational capabilities, by handling small talk, in line with a distinct chosen personality



Project Entity Linking

Power your app's data links with named entity recognition and disambiguation



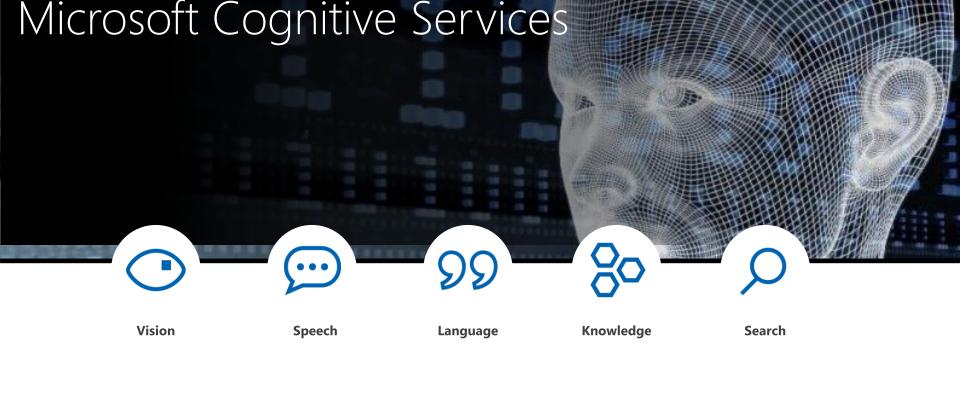
Project Knowledge Exploration

Enable interactive search experiences over structured data via natural language inputs



Project Anomaly Finder

The Anomaly Finder API helps you to monitor data over time and detect anomalies with machine learning that adapts to your unique data by automatically applying a statistical model



Face Recognition

Face detection

Detect faces and their attributes within an image

Face verification

Check if two faces belong to the same person

Similar face searching

Find similar faces within a set of images

Face grouping

Organize many faces into groups

Face identification

Search which person a face belongs to



Computer Vision

Analyze an image

Understand content within an image

OCR

Detect and recognize words within an image

Generate thumbnail

Scale and crop images, while retaining key content

Recognize celebrities

Thanks to domain-specific models, ability to recognize 200K celebrities from business, politics, sports, and entertainment around the world



Custom Vision

A customizable web service that learns to recognize specific content in imagery

Upload images

Upload your own labeled images, or use Custom Vision Service to quickly tag any unlabeled images

Train

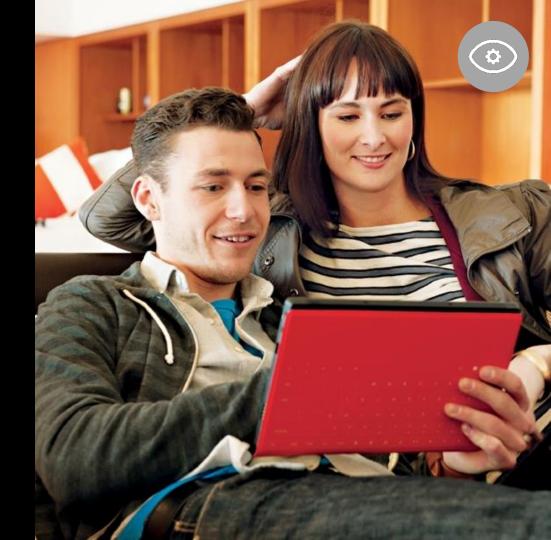
Use your labeled images to teach Custom Vision Service the concepts you want it to learn

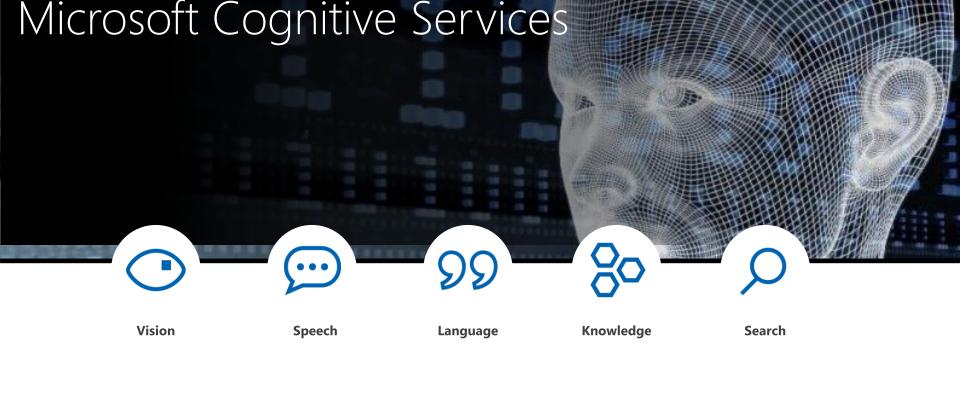
Evaluate

Use simple REST API calls to quickly tag images with your new custom computer vision model

Active learning

Images evaluated through your custom vision model become part of a feedback loop you can use to keep improving your classifier





Unified Speech

Combine speech recognition, text-to-speech, customized voice models, and translation service

Speech to text

Convert continuous human speech to text that can be used as inputs

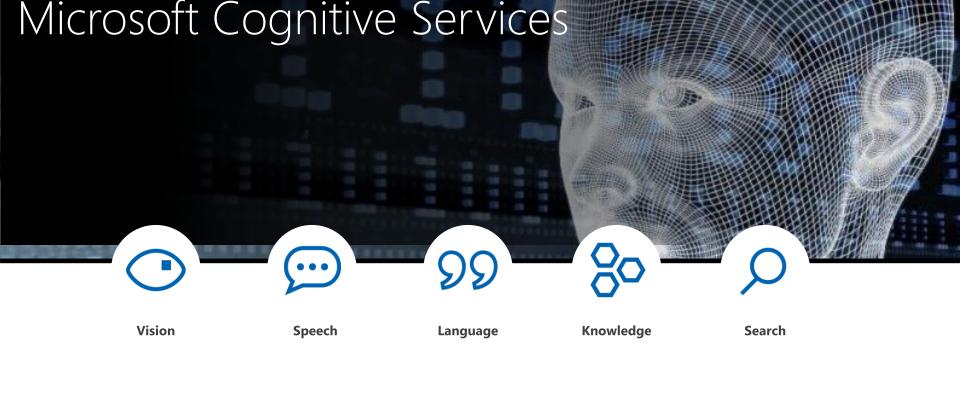
Text to speech

Convert text to audio files of natural-sounding speech

Speech translation

Use text or speech to provide translations of speech to other languages





Language Understanding Intelligent Service (LUIS)

Understand what your users are saying and create agents that perform custom actions

Use pre-built models or create your own



Text Analytics

Sentiment analysis

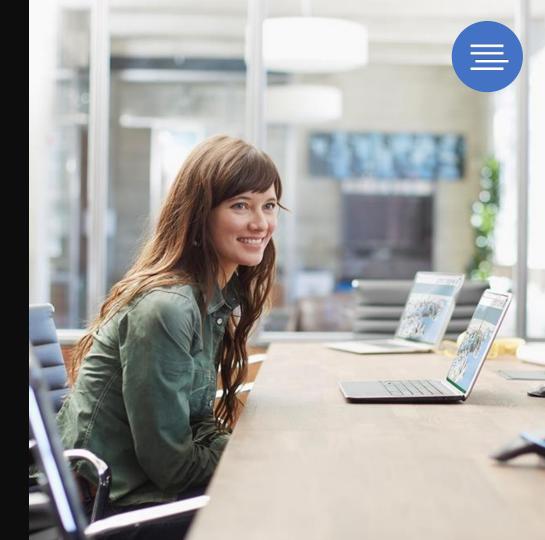
Understand if a record has positive or negative sentiment

Key phrase extraction

Extract key phrases from a piece of text, and retrieve topics

Language detection

Identify the language, 120 supported languages



Text Translator

Conduct real-time translation with a REST API call

Automatic detection

Accurately detect specific languages on any text string

Transliterate

Translate and display text in different language alphabets

Speech translation

Build custom NTM models that better handle writing styles and expressions



Content Moderator

Image moderation

Machine-learning based classifiers, custom blacklists, and Optical Character Recognition (OCR)

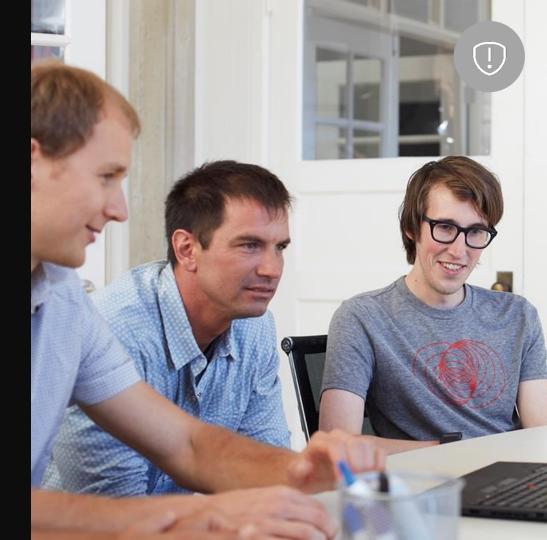
Text moderation

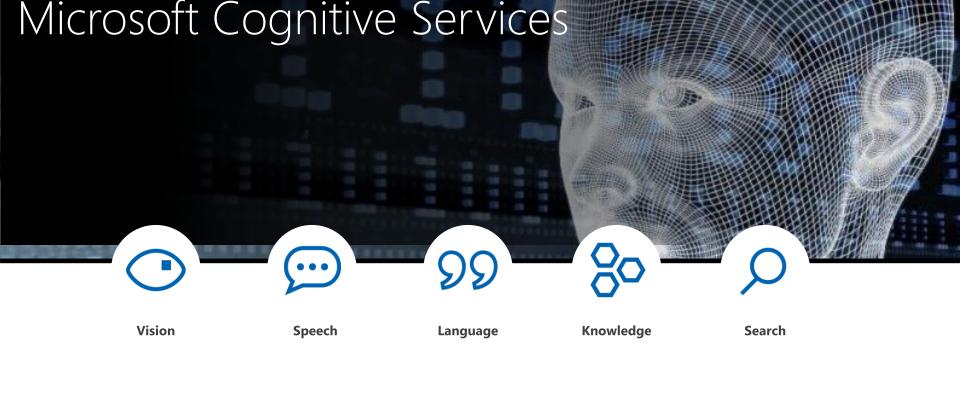
Helps you detect potential profanity in more than 100 languages and match text against your custom lists automatically.

Identification of possible Personally Identifiable Information (PII)

Video moderation

Scoring of possible adult or racy content in videos.





Bing Custom Search

An easy-to-use, ad-free, commercial-grade search tool lets you deliver results you want

Customize your search

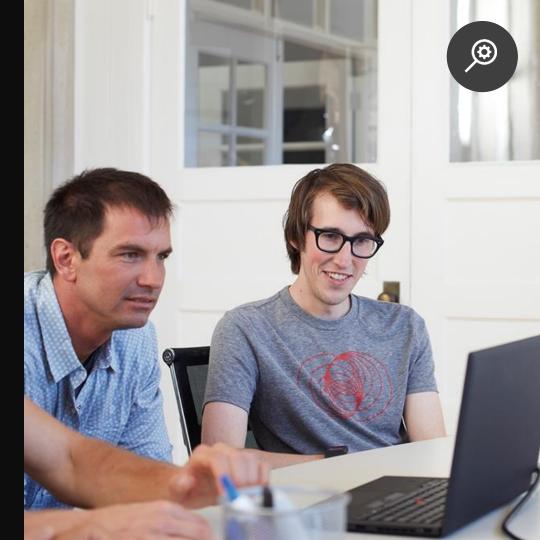
Quickly and reliably define the slices of the web that you want to draw from. Change the parameters of the sites you want and don't want at any time

Easy-to-use

Custom Search features a straightforward UI that enables you to create your web search without a line of code

Commercial-grade

Usage is ad-free—no matter how much or how little of the service you use _____



Bing Visual Search

Deliver new experiences that enable users to search with images and gain insights in compelling new ways

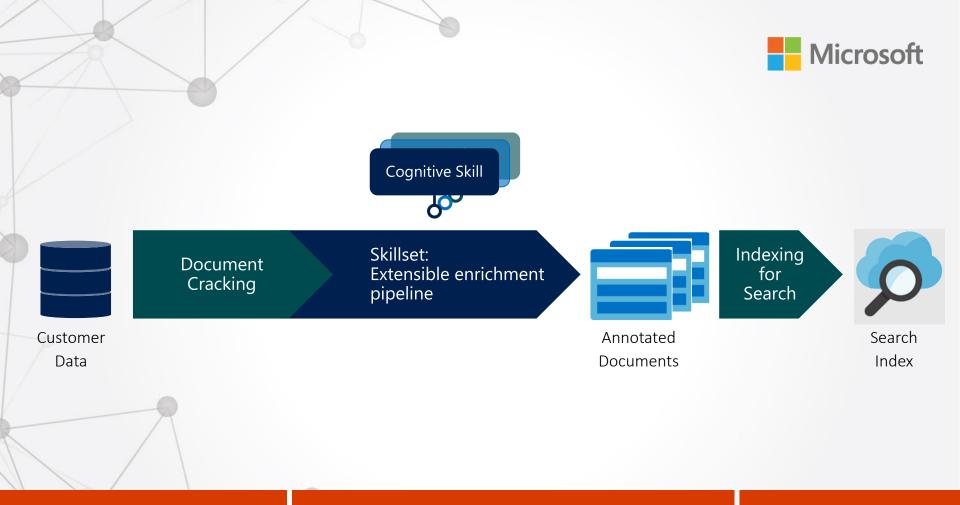
- Discover intelligent context identification
- Enhance produce recommendations for your business
- Make your applications and devised intelligent
- Augment image understanding through OCR
- Power statistics for your queries





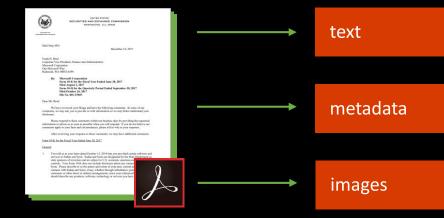


ENRICH EXPLORE INGEST Cognitive skills 101010 010101 101010 Search Data in any format, any Azure store Annotations



INGEST ENRICH EXPLORE

- Different types of data sources
 - Blob Storage
 - Azure SQL
 - Cosmos DB
 - Azure Tables
 - MySQL
 - Azure Files (private preview)
- File formats supported in blob storage
 pdf
 rtf
 doc
 - pdf
 rtf
 doc
 xml
 json
 ppt
 html
 xls







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