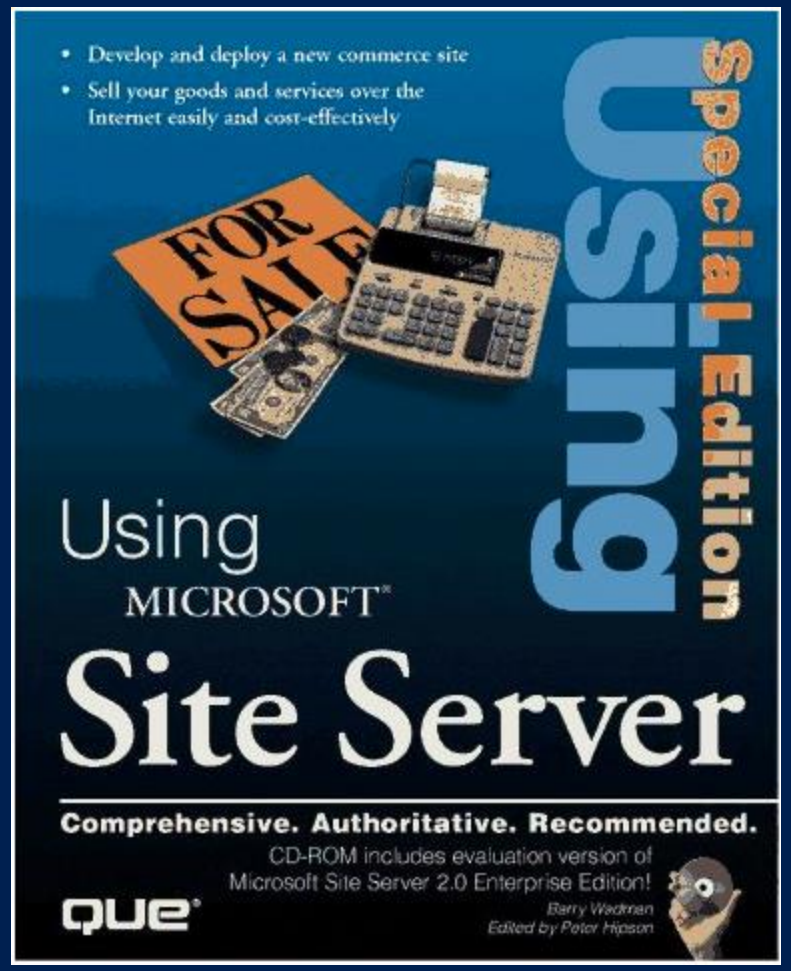

Using
Special Edition
Develop and deploy a new commerce site
Sell your goods and services over the Internet easily and cost-effectively
FOR SALE
Using
MICROSOFT®
Site Server
Comprehensive. Authoritative. Recommended.
CD-ROM includes evaluation version of Microsoft Site Server 2.0 Enterprise Edition!
Barry Wadman
Edited by Peter Hipson
que

Microsoft

Microsoft Cognitive Services

Language & Speech

LANGUAGE

Process text and learn how to recognize what users want

Bing Spell Check | Language Understanding | Linguistic Analysis | Text Analytics | Web Language Model | Translator Text and Speech

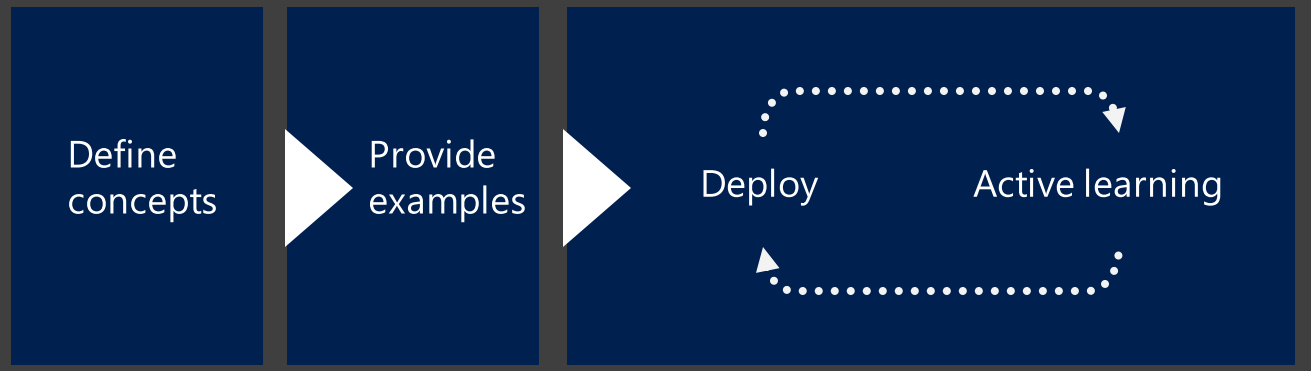
Language Understanding Intelligent Service

Reduce labeling effort with interactive featuring

Use visualizations to gauge performance and improvements

Leverage speech recognition with seamless integration

Deploy using just a few examples with active learning



Language understanding models

"News about flight delays"


```
{
  “entities”: [
    {
      “entity”: “flight_delays”,
      “type”: “Topic”
    }
  ],
  “intents”: [
    {
      “intent”: “FindNews”,
      “score”: 0.99853384
    },
    {
      “intent”: “None”,
      “score”: 0.07289317
    },
    {
      “intent”: “ReadNews”,
      “score”: 0.0167122427
    },
    {
      “intent”: “ShareNews”,
      “score”: 1.0919299E-06
    }
  ]
}
```

Pizza Bot

Version: 0.1

Settings

Dashboard

Intents

Entities

Prebuilt domains PREVIEW

Features

Train & Test

Publish App

← Back to App list

Test your application

Use this tool to test the current and published versions of your application, to check if you are progressing on the right track ... Learn more

Train Application Last train: Jan 18, 2017 2:41:01 PM | Last publish: Jan 18, 2017 2:41:25 PM

Interactive Testing Batch Testing

☐ Enable published model

Labels view (Ctrl+E) Entities | Reset console

Type a test utterance & press Enter →

i ' d like a [$Size] pie with [$Toppings]

i need a [$Size] pizza with [$Toppings] and tomatoes

i need a [$Size] pizza

Current version results

Top scoring intent

Order-Pizza (0.88)

Other intents

None (0.06) Cancel (0)

Linguistic analysis

Analysis tolls for natural language processing

Access to part-of-speech tagging and parsing, identifying concepts, and actions

Linguistic analysis

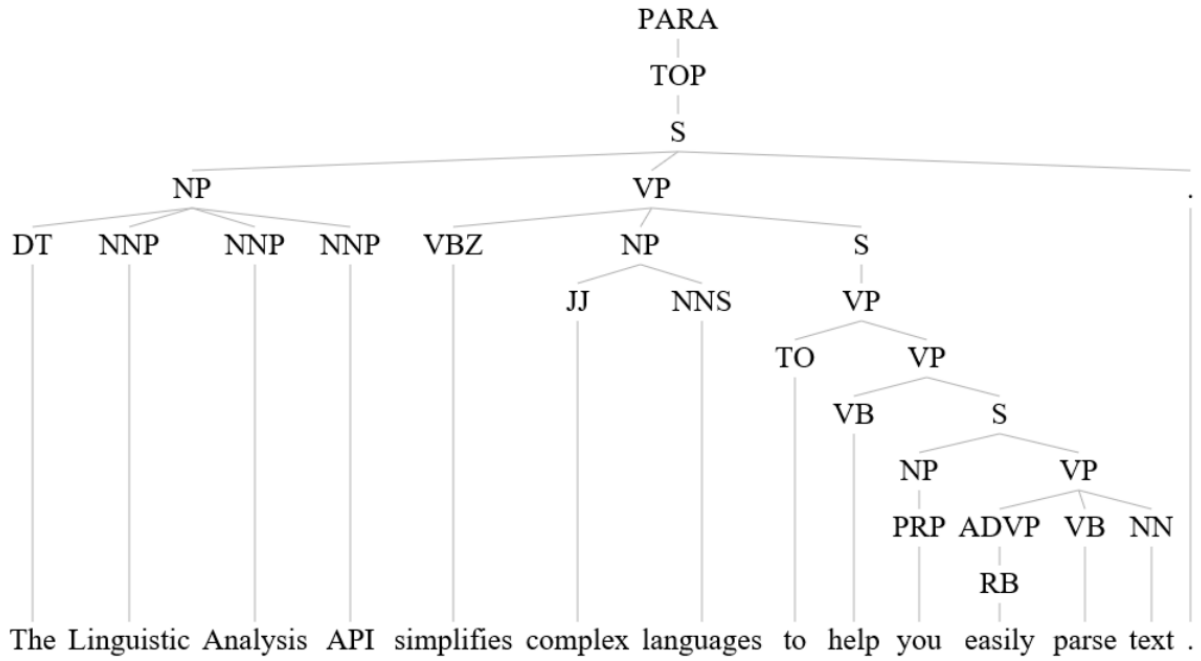
Enter a sentence

The Linguistic Analysis API simplifies complex languages to help you easily parse text.

POS tags

[["DT","NNP","NNP","NNP","VBZ","JJ","NNS","TO","VB","PRP","RB","VBP","NN","."]]

Constituency tree



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

Microsoft Translator

Translator Text API

Automatically detect language and easily power translation to and from 60 supported text languages

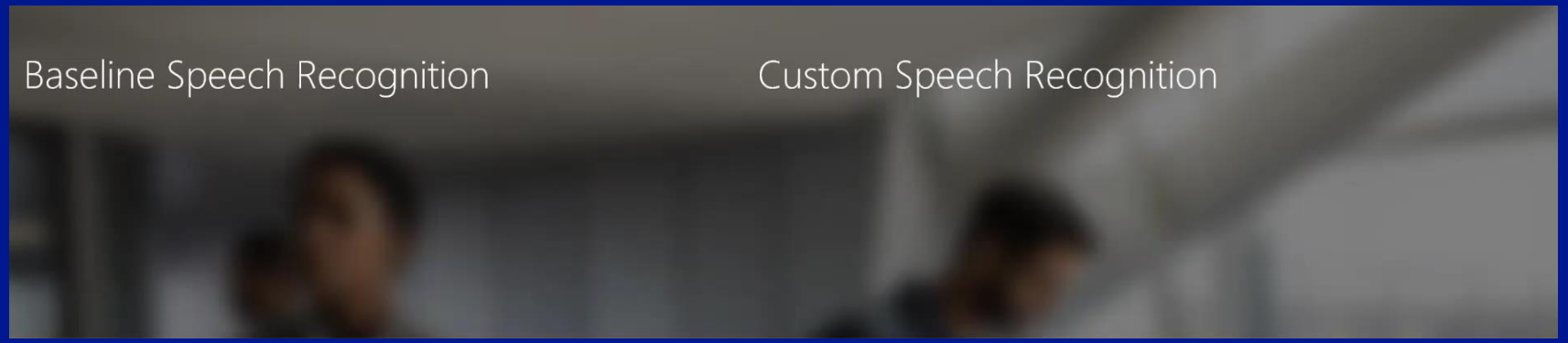
Translator Speech API

Easily translate real-time speech conversations in 9 support languages

Speech

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

Unified Speech service |
Speech to Text | Text to Speech | Speech Translation
Speaker Recognition



Speech

Speaker Recognition

Use speech to identify and verify individual speakers

Translator Speech

Easily conduct real-time speech translation with a simple REST API call

Custom Speech

Overcome speech recognition barriers like speaking style, background noise, and vocabulary

Unified Speech service

Unified speech service for **speech-to-text** (general and custom speech models), **text-to-speech** (general and custom voice models) and **speech translation** (general and custom translator)

Bing Speech

Convert speech to text and back again to understand user intent

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

Speaker Recognition

Speaker verification
Check if two voices are the same

Speaker identification
Identify who is speaking

Speaker Recognition

Enrollment

Create a unique voiceprint for a profile

Recognition

After enrolling one or more voices, identify who is speaking from an audio clip

Verification

Confirm if a voice belongs to a previously enrolled profile

Bing Speech

Voice recognition (speech to text)
Converts spoken audio to text

Voice output (text to speech)
Synthesize audio from text

Speech intent recognition
Convert spoken audio to intent

Custom Speech

Customize both language and acoustic models

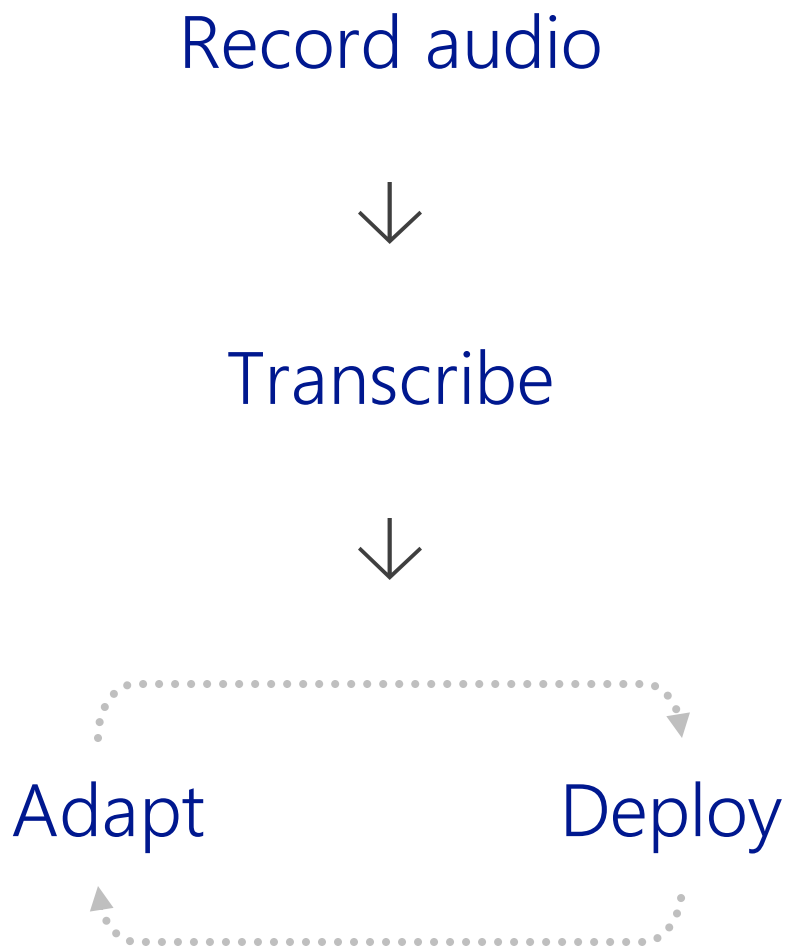
Tailor speech recognition to your app and environment

Custom Speech

Create custom language models for the vocabulary of the application

Adapt acoustic models to better match the expected environment of the application's users

Deploy to a custom endpoint and access from any device



STARSHIP COMMANDER

"The only reason we can build a product like this is because we are building on the deep learning and speech recognition expertise at Microsoft to deliver an entertainment experience that will be revolutionary."

Alexander Mejia, Owner and Creative Director, Human Interact

Custom Speech Service, LUIS | Read case study here | See video here

Translator Speech

Facilitate end-to-end, real-time speech translations in over 60 languages

Transcribe and translate

Optimize translations for real-life conversations

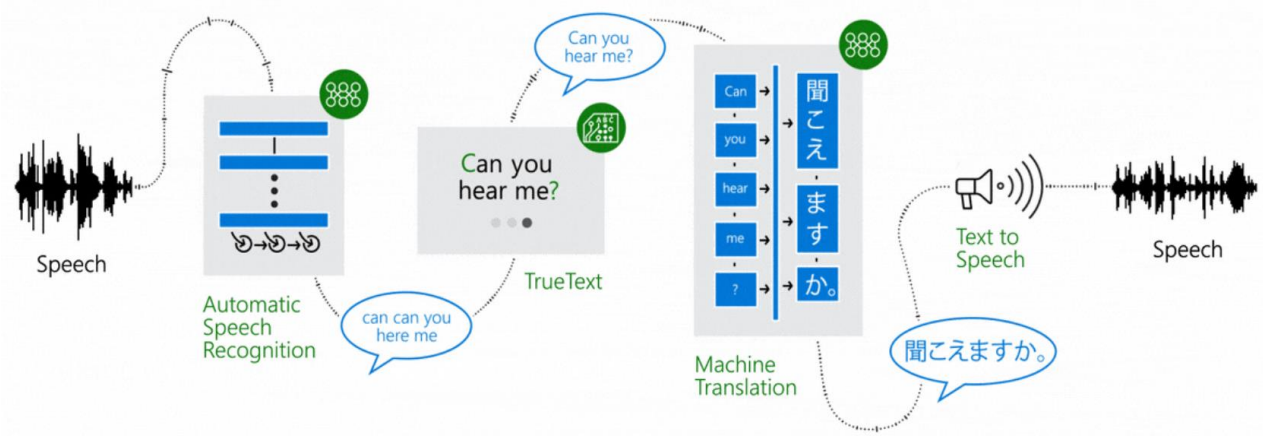
Customize

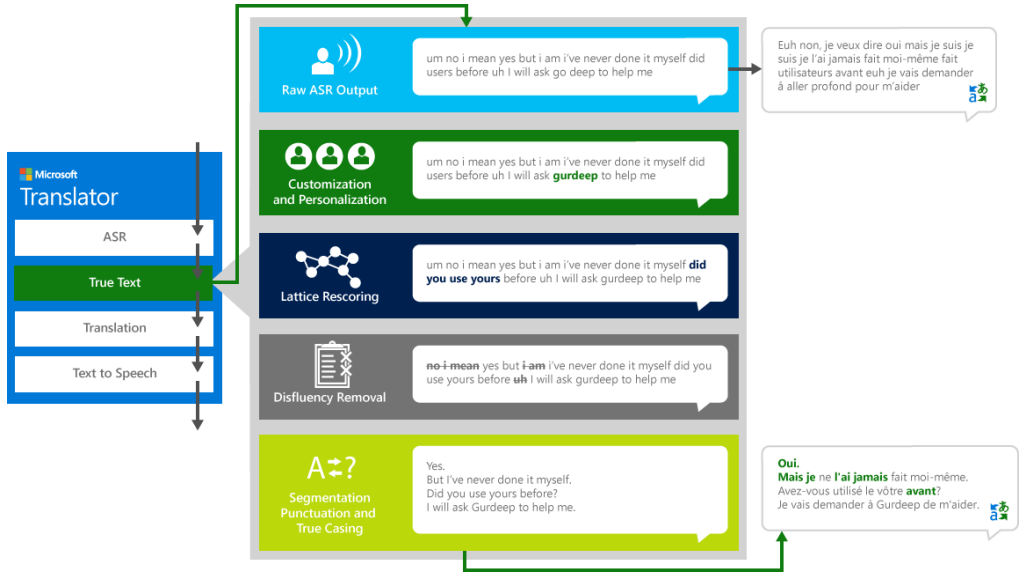
Personalize speech recognition, translations, and speech-to-text to your specific domain or scenario

Translator Speech

To translate the “source” speech from one language to a different "target" language, Translator Speech goes through a four-step process

1. Speech recognition, to convert audio in into text
2. TrueText normalizes text to make it more appropriate for translation
3. Translation through the text translation engine with models developed for real-life spoken conversations
4. Text-to-speech, when necessary, to produce the translated audio





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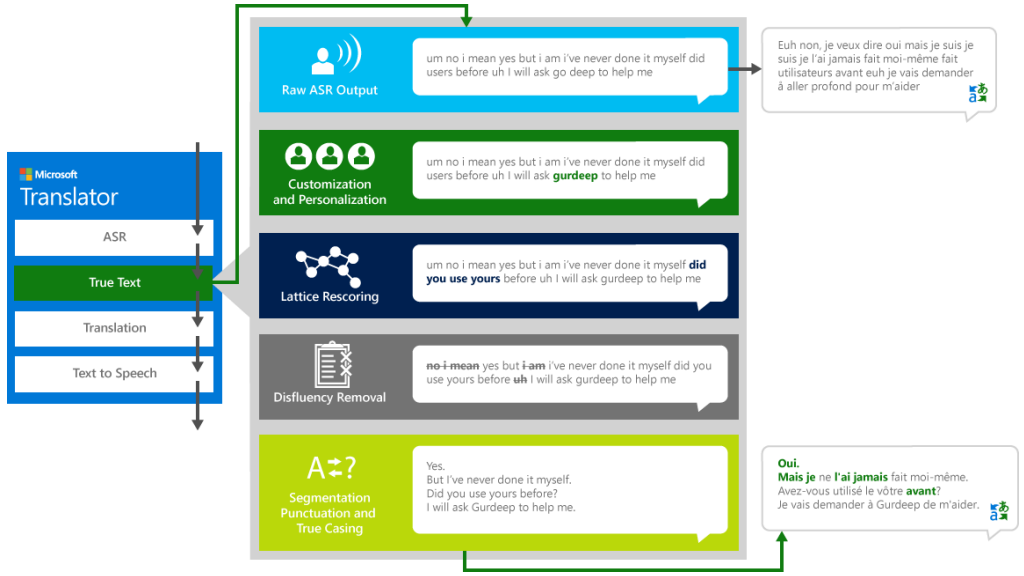

Speech & Text – Hands on Lab