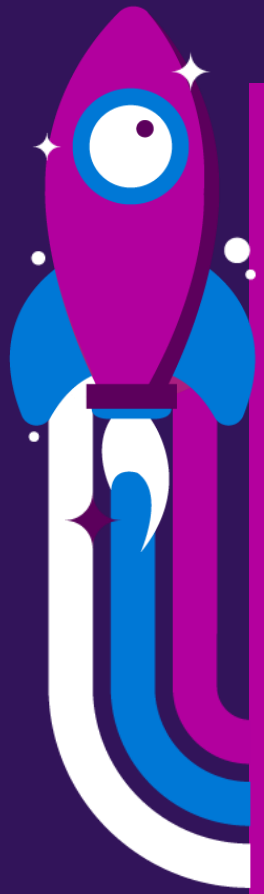


Microsoft

LANGUAGE & SPEECH SERVICES

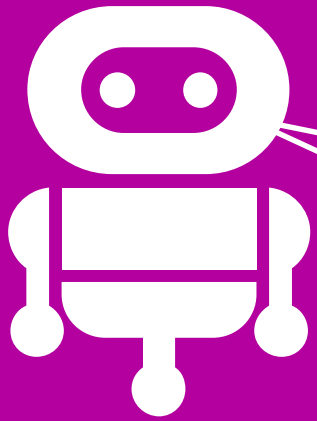
Frances Tibble & Jamie Dalton

WHY CONVERSATIONS?

HUMANS ARE THE BEST USER INTERFACE

- Natural
- Immediate
- No effort

WHEN HUMANS ARE NOT AVAILABLE



Hiya … I'm an app, you can talk to me too

MAKE YOUR APPS CHATTY

Vision

Language

Speech

Search

Knowledge

Computer vision
Face
Emotion
Content Moderator
Video
Video Indexer

Text analytics
Spell check
Web language model
Linguistic analysis
Translator Text

Translator Speech
Speaker recognition
Bing Speech

Web search
Image search
Video search
News search
Autosuggest
Entity search

Academic knowledge
Entity linking service
Knowledge exploration
Recommendations
QnA maker

Custom
Vision Service

Custom
Language Understanding

Custom
Speech Service

Custom
Search

Custom
Decision Service

+6 Cognitive Services Labs APIs

30+ APIS

LANGUAGE

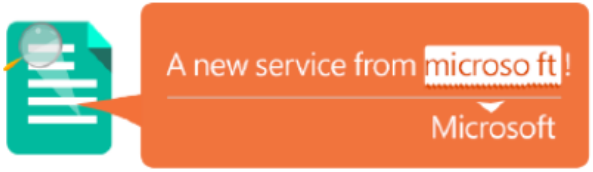
Text Analytics
Spell Check
Web Language Model
Linguistic Analysis
Translator Text
Custom Language Understanding

APIs TO PROCESS NATURAL LANGUAGE AND ANALYSE TEXT

LANGUAGE

TEXT ANALYTICS

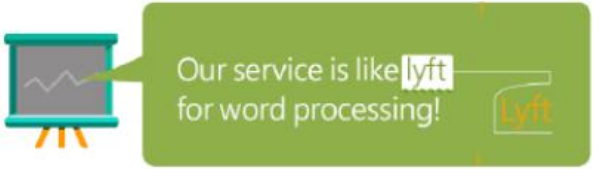
- Sentiment analysis
- Key phrase extraction
- Language detection


A new service from microso ft !
Microsoft

Director stephen
Steven
Spielberg should use
in the next AI movie!

I'm gona use this today!
gonna

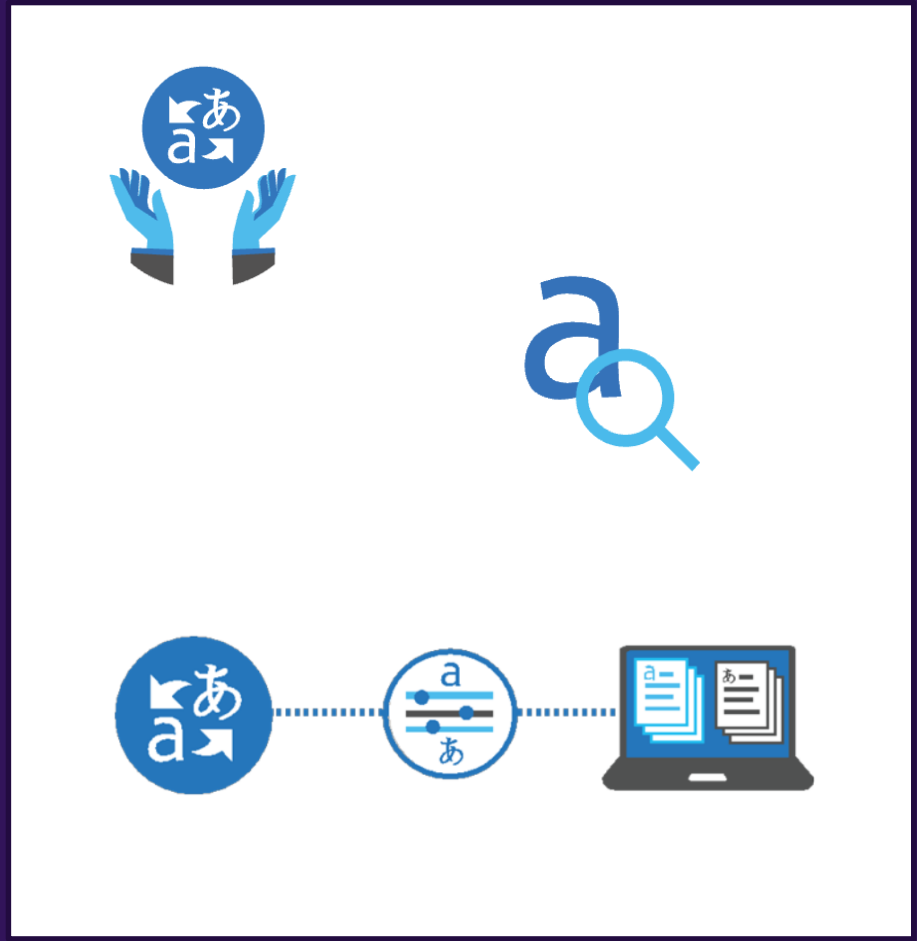
Our engineers developed
this four you !
for

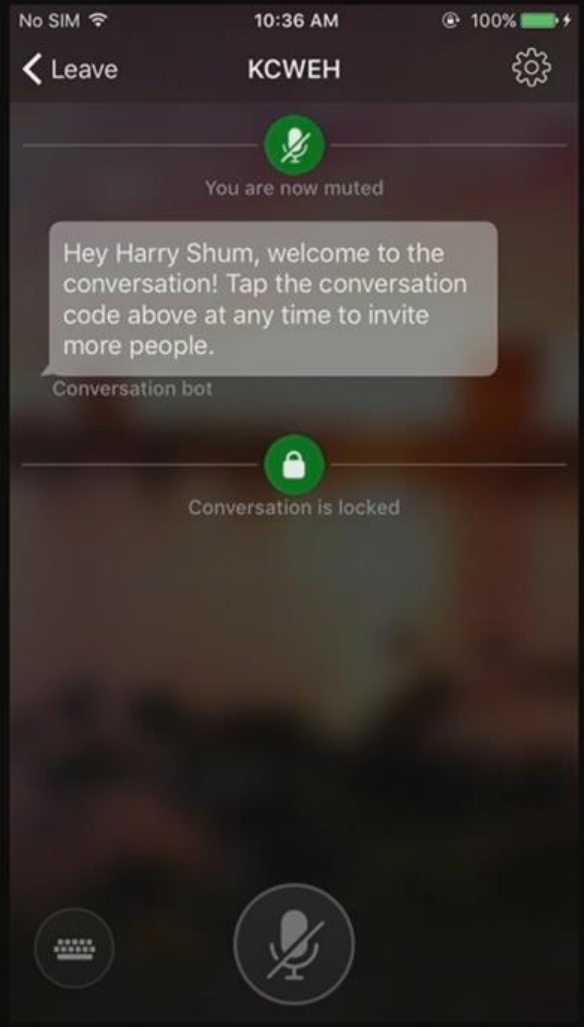

Our service is like lyft
for word processing!
Lyft

SPELL CHECK

TRANSLATOR TEXT

- Extend the reach of your apps
- Automatically detect languages
- Build custom translation systems



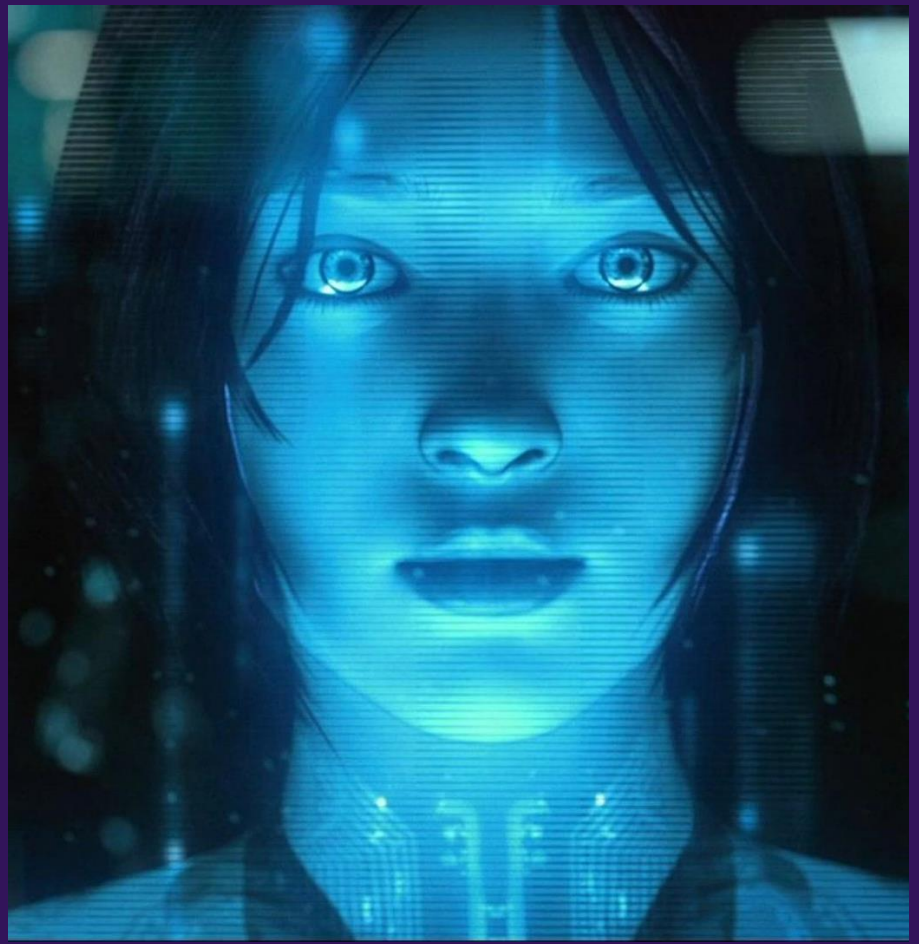

No SIM
10:36 AM
100%
Leave
KCWEH
You are now muted
Hey Harry Shum, welcome to the conversation! Tap the conversation code above at any time to invite more people.
Conversation bot
Conversation is locked

SPEECH

MICROSOFT SPEECH HAS HIGHER ACCURACY THAN HUMANS

THE SWITCHBOARD TEST

- Industry standard speech recognition test
- Word error rate of 5.1%
- Less than human transcriptionists
- Lowest ever recorded
- aka.ms/SpeechSwitchboardTest



BING SPEECH

- Speech Recognition
- Text to Speech
- Real-time, partial results

TRANSLATOR SPEECH

- Transcribe and translate
- 60 languages
- Built on Microsoft Translator Hub

SPEAKER RECOGNITION

- Speaker identification
- Users enrol to the service
- Audio verification

DEMO

SPEECH DEMO

CUSTOM SPEECH

- Built on Bing Speech
- Custom Language Models
- Custom Acoustic Environments

DEMO

CUSTOM SPEECH DEMO

DEMO

STARSHIP COMMANDER

AIDay.Info/StarshipCommander

Microsoft

IN SUMMARY

- Users are talking to apps
- Speech & language goes beyond bots
- Custom speech for specific applications

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Frances.Tibble@Microsoft.com

9:00	**The Microsoft AI Platform**	Martin
9:45	**Computer Vision Services**	Frances
10:30	Break	
10:45	**Bots & Conversational Apps**	Jamie
11:45	**Knowledge Services**	Martin
12:30	Lunch	
13:15	**Language & Speech Services**	Frances & Jamie
14:00	**Machine Learning**	Andrew
14:45	**Summary & Envisioning Intro**	Martin
15:00	Break	
15:15	**Envisioning**	Groups
17:00	Close	