



#FusionAlDay









LANGUAGE SERVICES

Frances Tibble, @frances tibble





A Language

Speech

Q

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

Custon

Language Understanding **Custom**

Speech Service

Custor

Search

Custom

Decision Service

+6 Cognitive Services Labs APIs

30+ APIS



VIRGIN FUN BUS

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

Text Analytics Spell Check Inguage Model Guistic Analysis Translator Text APIS TO PROCESS NATURAL LANGUAGE AND ANALYSE TEXT

LANGUAGE

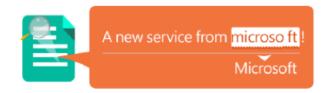
TEXT ANALYTICS



- Sentiment analysis
- Key phrase extraction
- Language detection



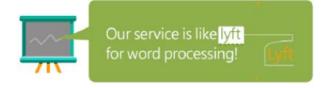












SPELL CHECK

WEB LANGUAGE MODEL



- Joint probabilities
- Conditional probabilities
- Next word completions











TRANSLATOR TEXT



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





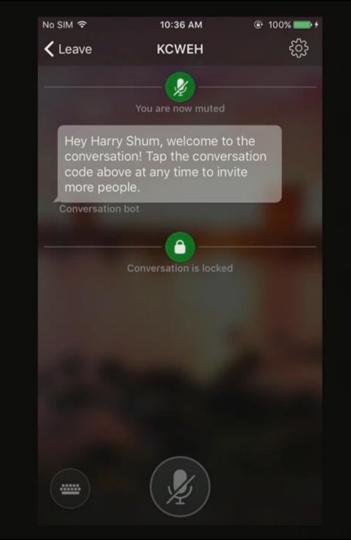


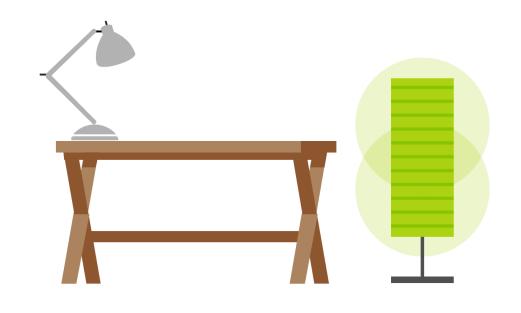












LANGUAGE UNDERSTANDING

BULDINGWITH **LUIS**

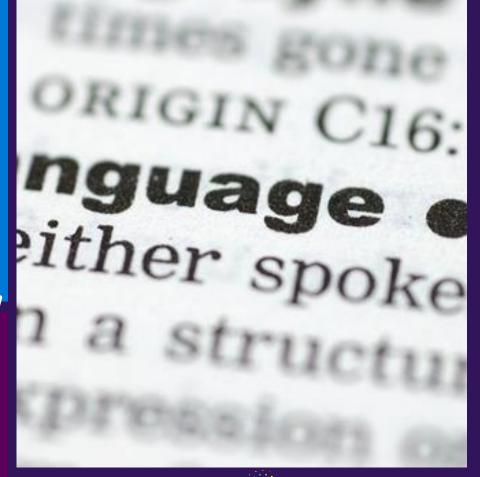




KEY CONCEPTS



- Utterance
- ▶ Intent
- Entity









1) User makes an 'utterance'



2) LUIS figures out Intent and Entities

"I'm looking for a rock band in Birmingham on Saturday night"

Location Genre ArtistType

DateTime (date) DateTime (time)



3) App receives intent and entities from LUIS and performs appropriate action

LAB





CONTACT ME

FRANCES TIBBLE

y @frances_tibble

Frances.Tibble@Microsoft.com

