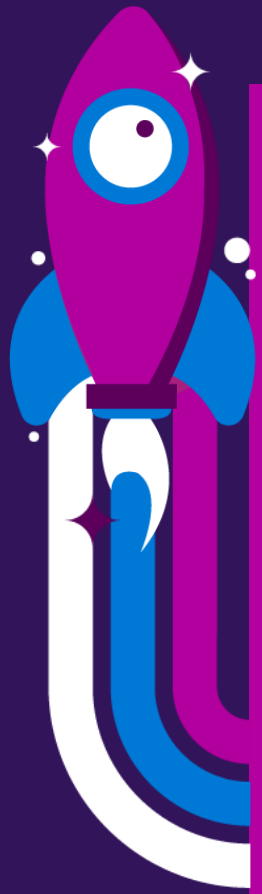
#FusionAIDay

fusion

Microsoft



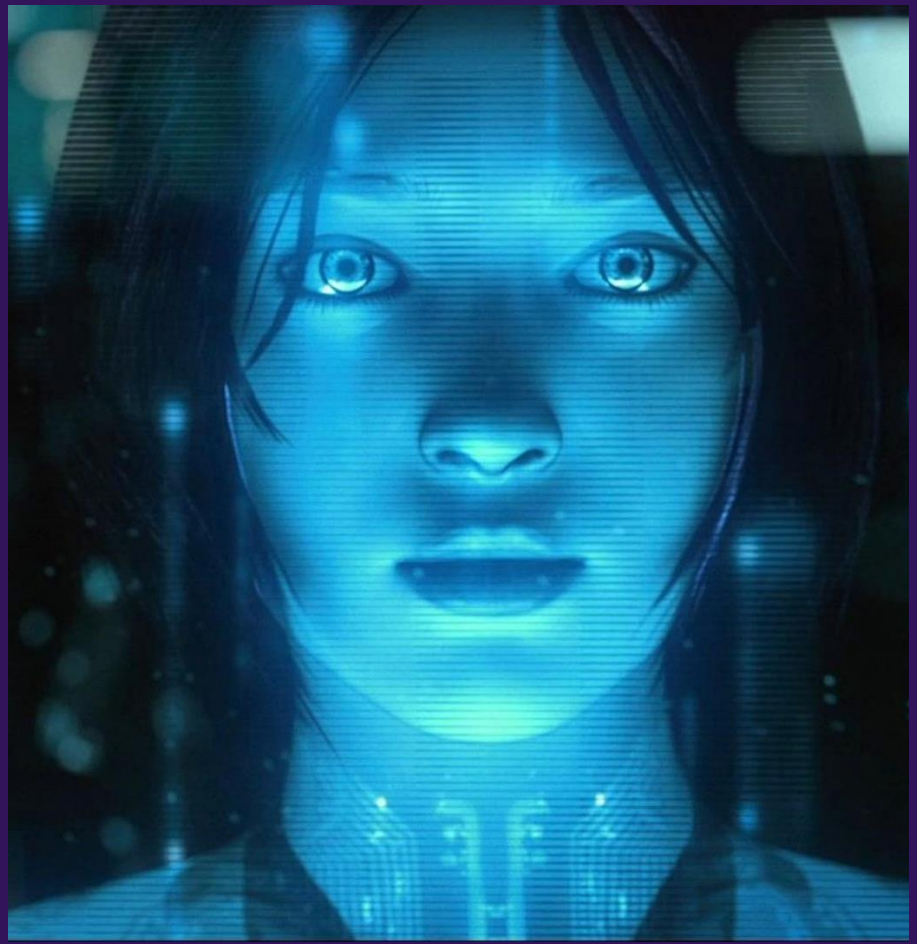
SPEECH SERVICES

Jamie Dalton, @daltskin

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



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

COGNITIVE SERVICES

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

MCDONALDS DRIVE THROUGH

DEMO

STARSHIP COMMANDER

https://customers.microsoft.com/en-us/story/human-interact-cognitive-services

IN SUMMARY

- We have the best speech recognition
- Several Cognitive services available
- Custom speech for specific applications

CONTACT ME

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10:15	**The Microsoft AI Platform**	Martin Kearn
10:45	**Computer Vision Services**	Frances Tibble
11:30	Break	
11:45	**Knowledge Services**	Martin Kearn
12:30	**Speech Services**	Jamie Dalton
13:00	Lunch	
14:00	**Language Services**	Frances Tibble
14:45	**Bots and Conversational Apps**	Jamie Dalton
15:30	Break	
15:45	**Machine Learning**	Mason Cusack
16:45	**Wrap-up**	Martin Kearn