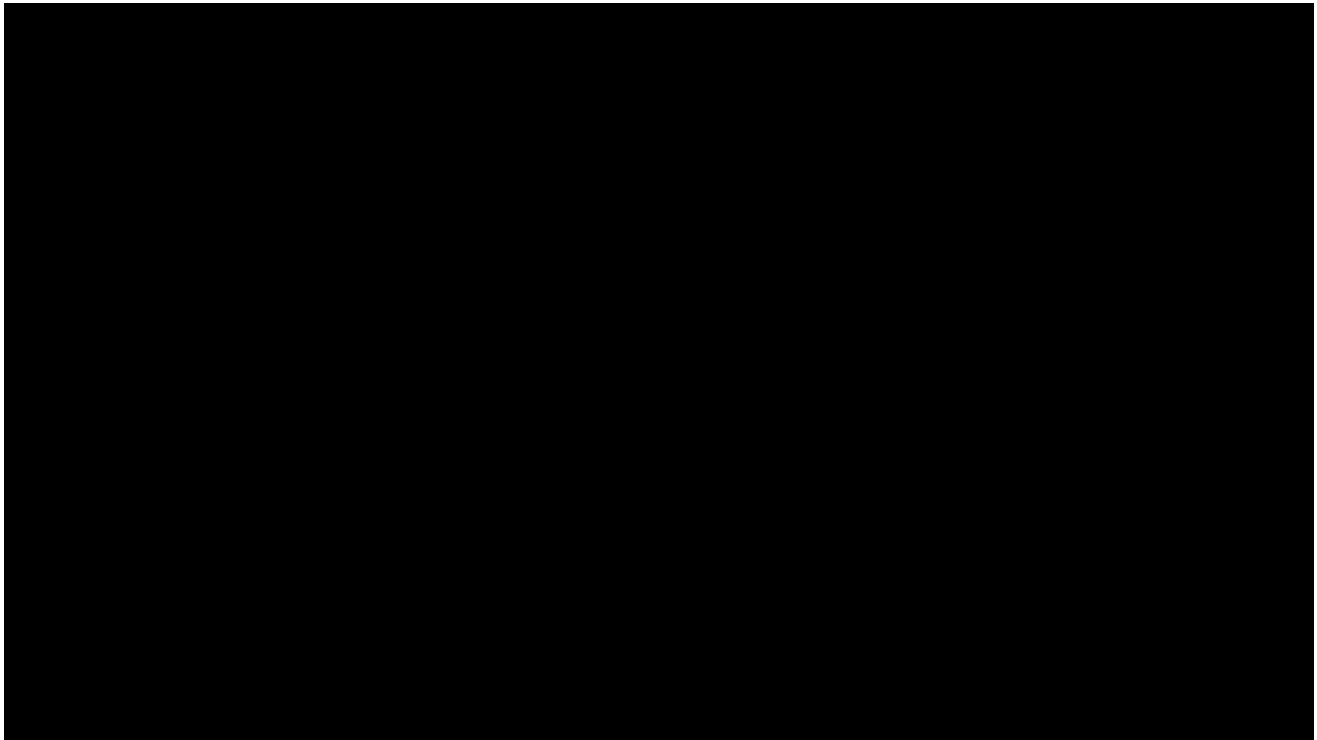


I'm Emotional - Using Microsoft Cognitive Services to Understand the World Around You

Adam Tuliper
Principal Software Engineer
Microsoft

Demos


- All demos available at
 - <https://github.com/DanielEgan/KPV-Talk>
 - <https://github.com/Microsoft/Cognitive-Samples-VideoFrameAnalysis>
 - <https://github.com/Microsoft?utf8=%E2%9C%93&query=cognitive>
 - <https://github.com/Microsoft/Cognitive-Samples-IntelligentKiosk>
 - Also see version in Windows Store, has more features



Why Microsoft Cognitive Services?


Easy

Roll your own with REST APIs
Simple to add: just a few lines of code required




Flexible

Integrate into the language and platform of your choice
Breadth of offerings helps you find the right API for your app



Tested

Built by experts in their field from Microsoft Research, Bing, and Azure Machine Learning
Quality documentation, sample code, and community support




Microsoft Cognitive Services

Give your apps a human side



Vision

From faces to feelings, understand images and video




Speech

Hear and speak, filtering noise, identifying speakers




Language

Process text, understand intent




Knowledge

Tap into rich knowledge amassed from the web, academia, or your own data



Search

Access billions of web pages, images, videos, and news with the power of Bing APIs



Labs







An early look at emerging Cognitive Services technologies



Microsoft Cognitive Services

Give your apps a human side

The most set of cognitive services available, allowing customers to use their data with algorithms that are customized for their needs.

 Vision	 Speech	 Language	 Knowledge	 Search	 Labs
Customizable web service that learns to recognize specific content in imagery	Fine-tune speech recognition for anyone, anywhere	Teach your apps to understand commands from your users	Create custom experiences with adaptive, contextual decision-making	Create a highly-customized web search experience	
Custom Vision Service	Custom Speech Service	Language Understanding	Custom Decision Service	Bing Custom Search	

DEMO

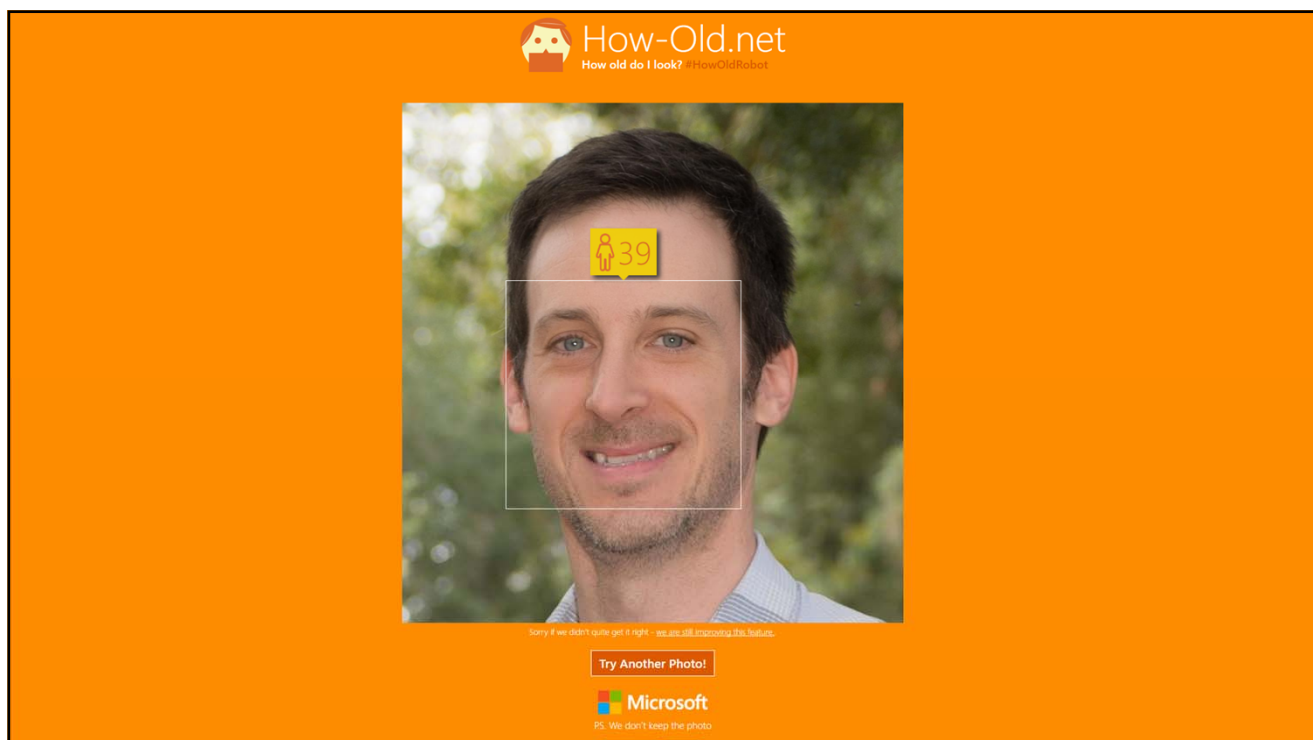
Intelligent Kiosk

Facial Processing



<https://www.mymoustache.net/>

#vslive



Demo

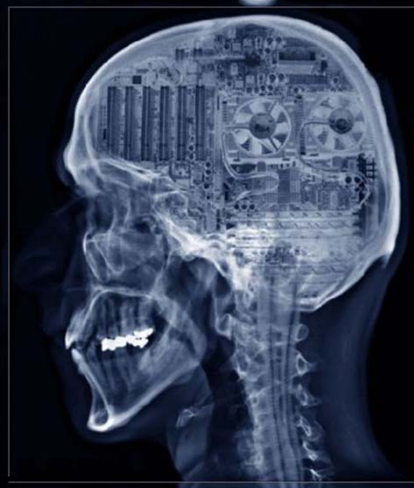
Overlays – Face processing

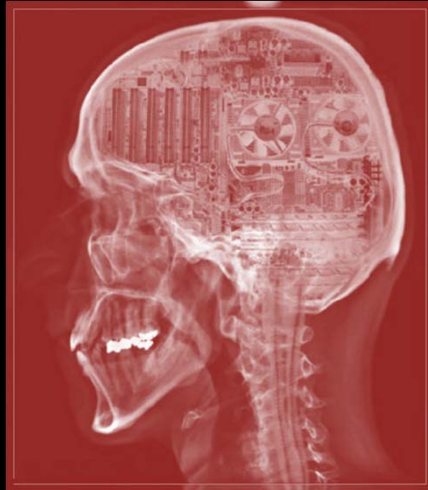
Demo

Video Analysis with Computer Vision

R

AI is Here.



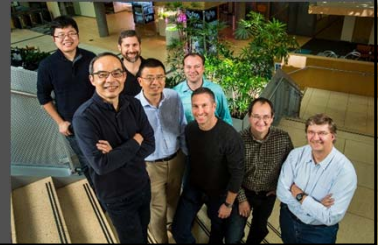


Microsoft Research

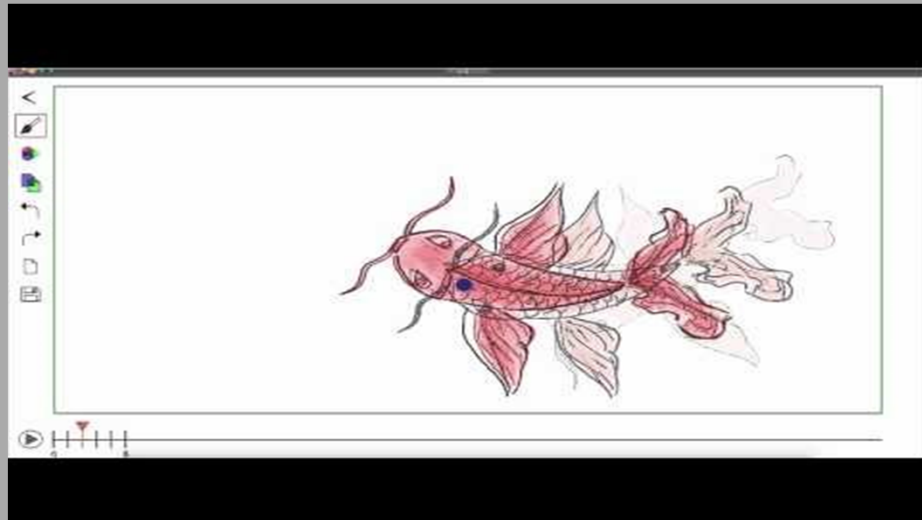
Microsoft has led the way in AI research & Audio

2016 Historic Achievement: Microsoft researchers reach human parity in conversational speech recognition

The milestone means that, for the first time, a computer can recognize the words in a conversation as well as a person would.



AI is changing how we work



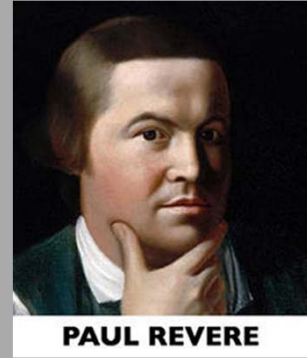
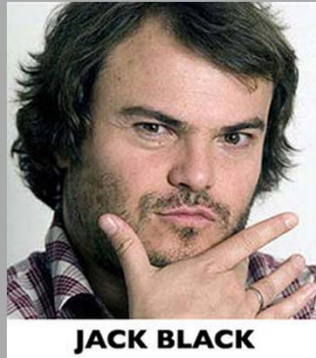
Computer Vision



AI Problems



Imposters



AI Problems



Mmm...Blueberries



Bread?



Pastries anyone?



Ice Cream?



Demo

Custom Vision Service –



Thank You!!



adamt@microsoft.com