

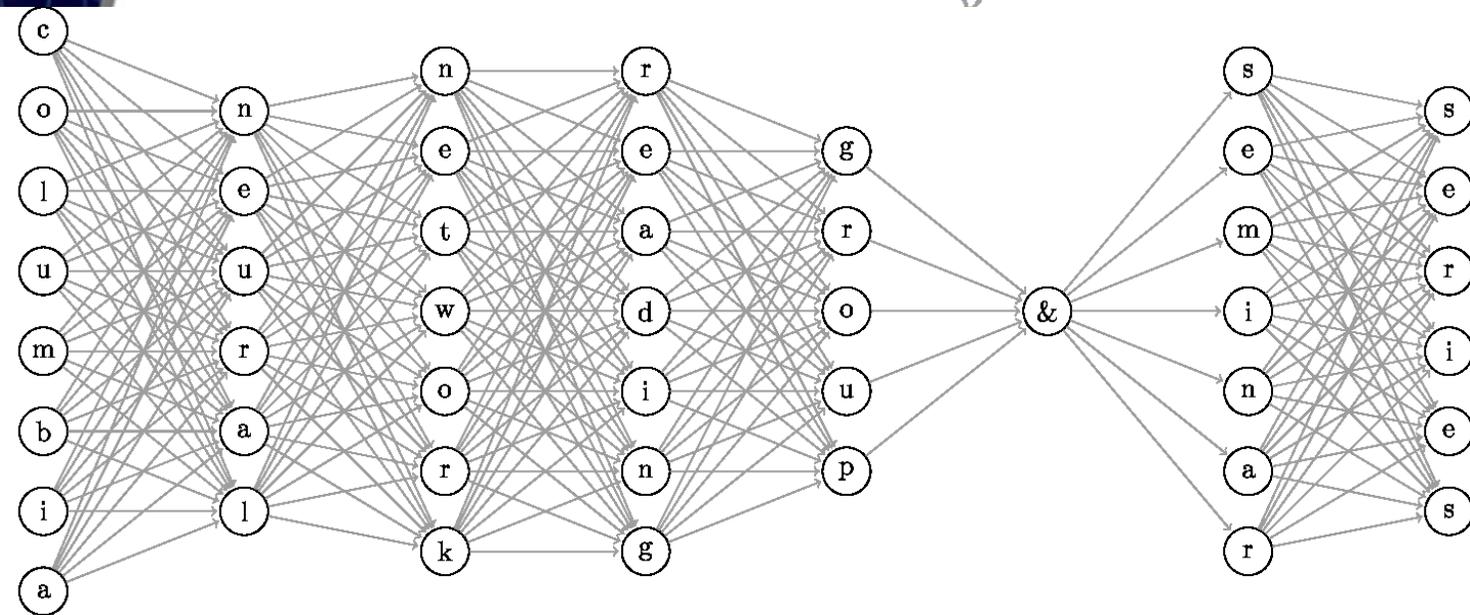
Beyond Artificial Intelligence ...

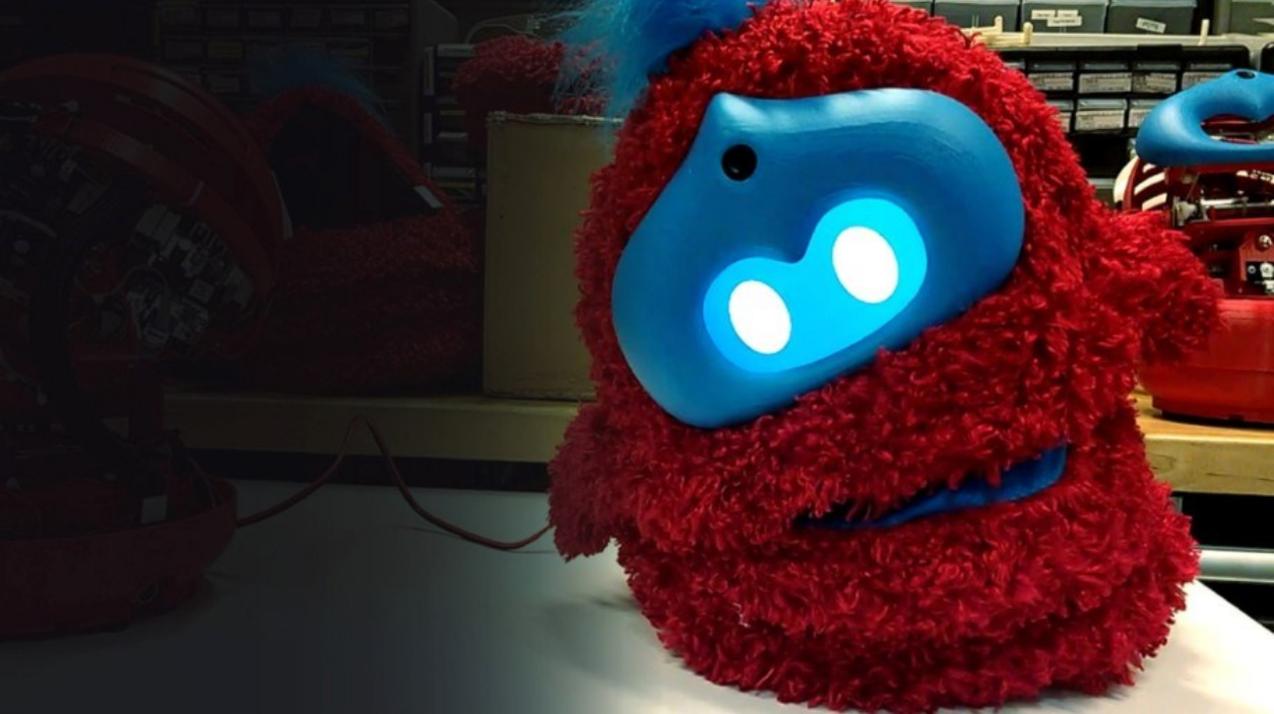


May Amr
Director, Data acquisition and annotation

:) **Affectiva**

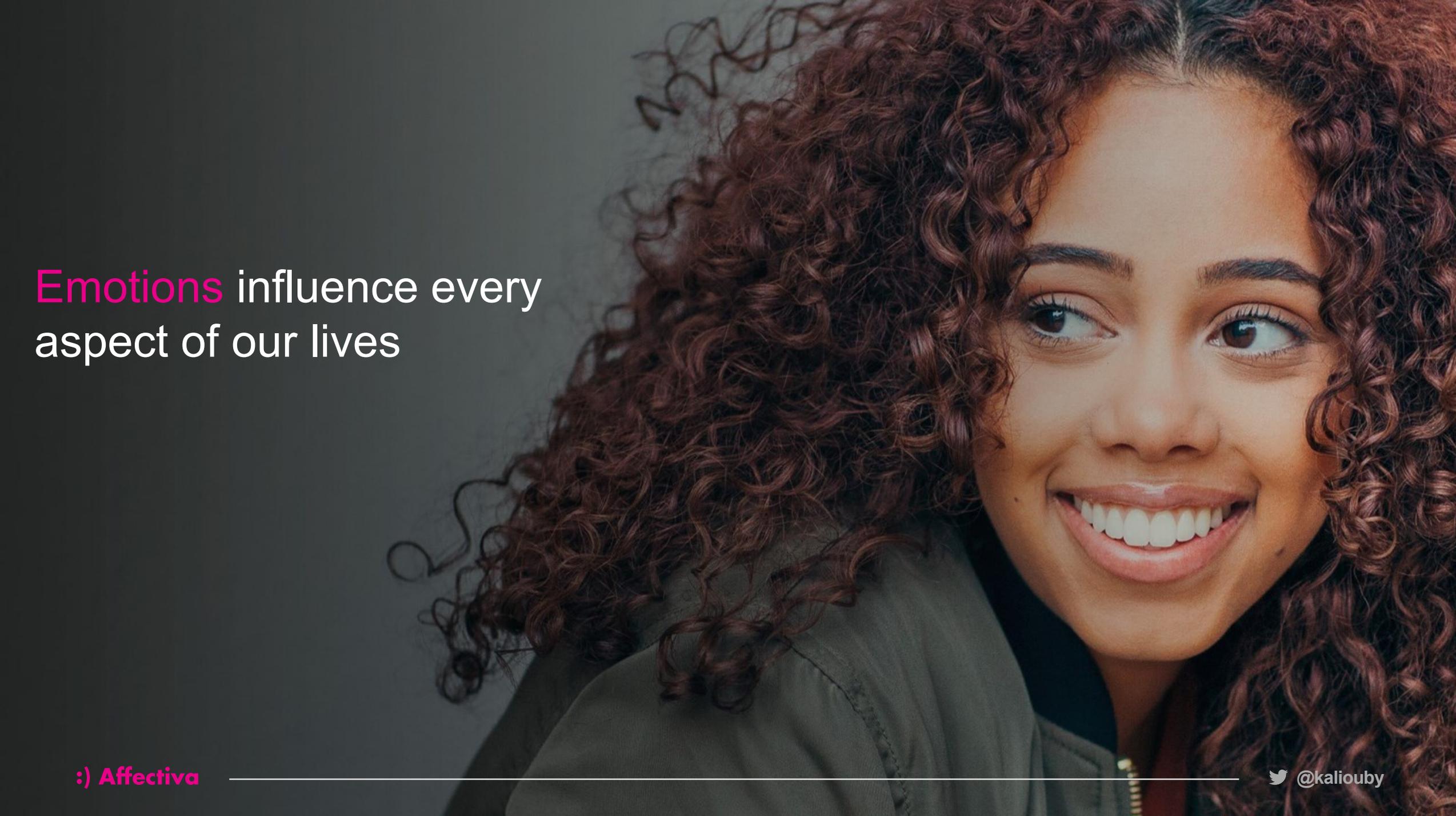
Human Brain Inspiring AI Scientists



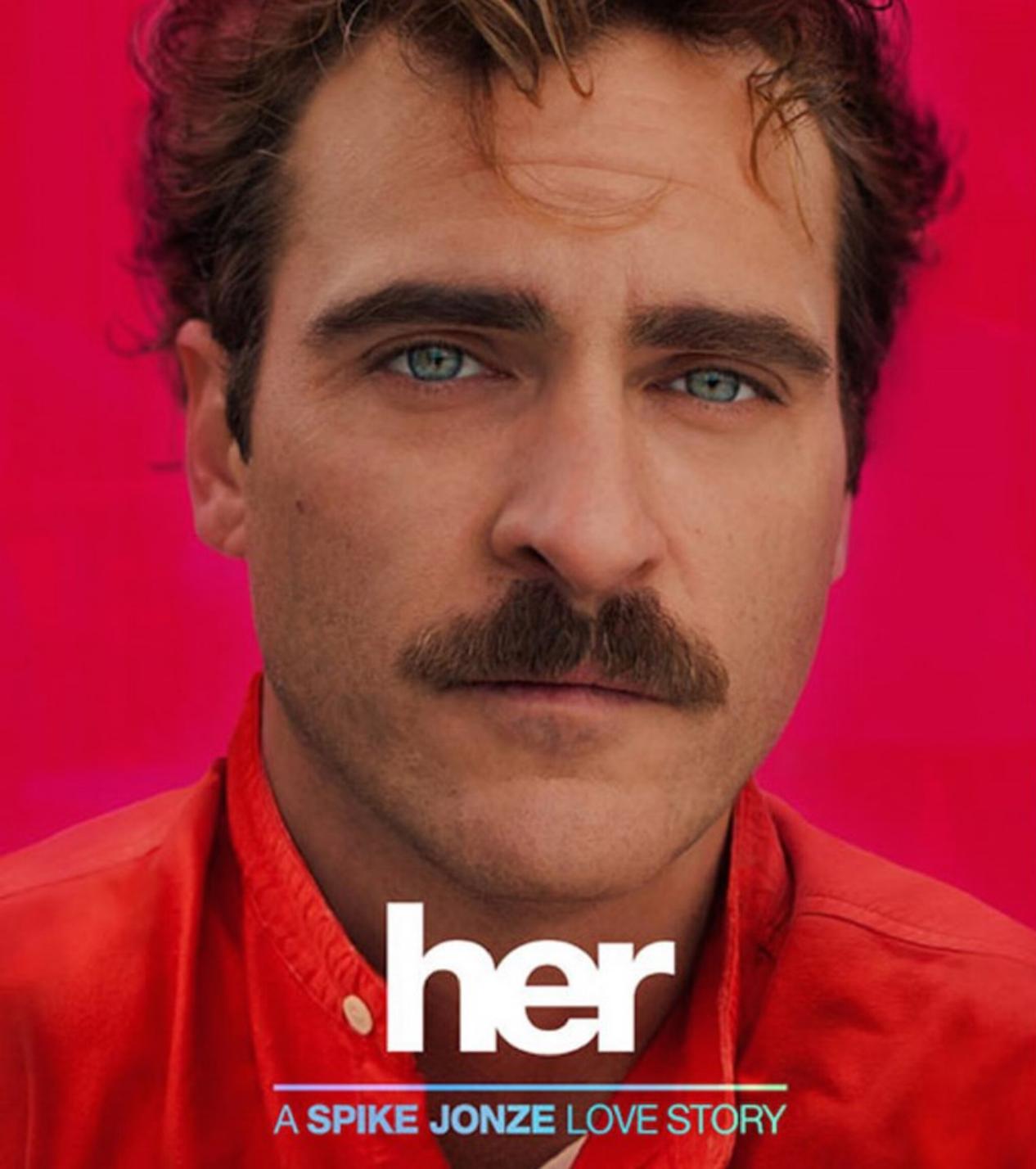


:) Affectiva

@affectiva

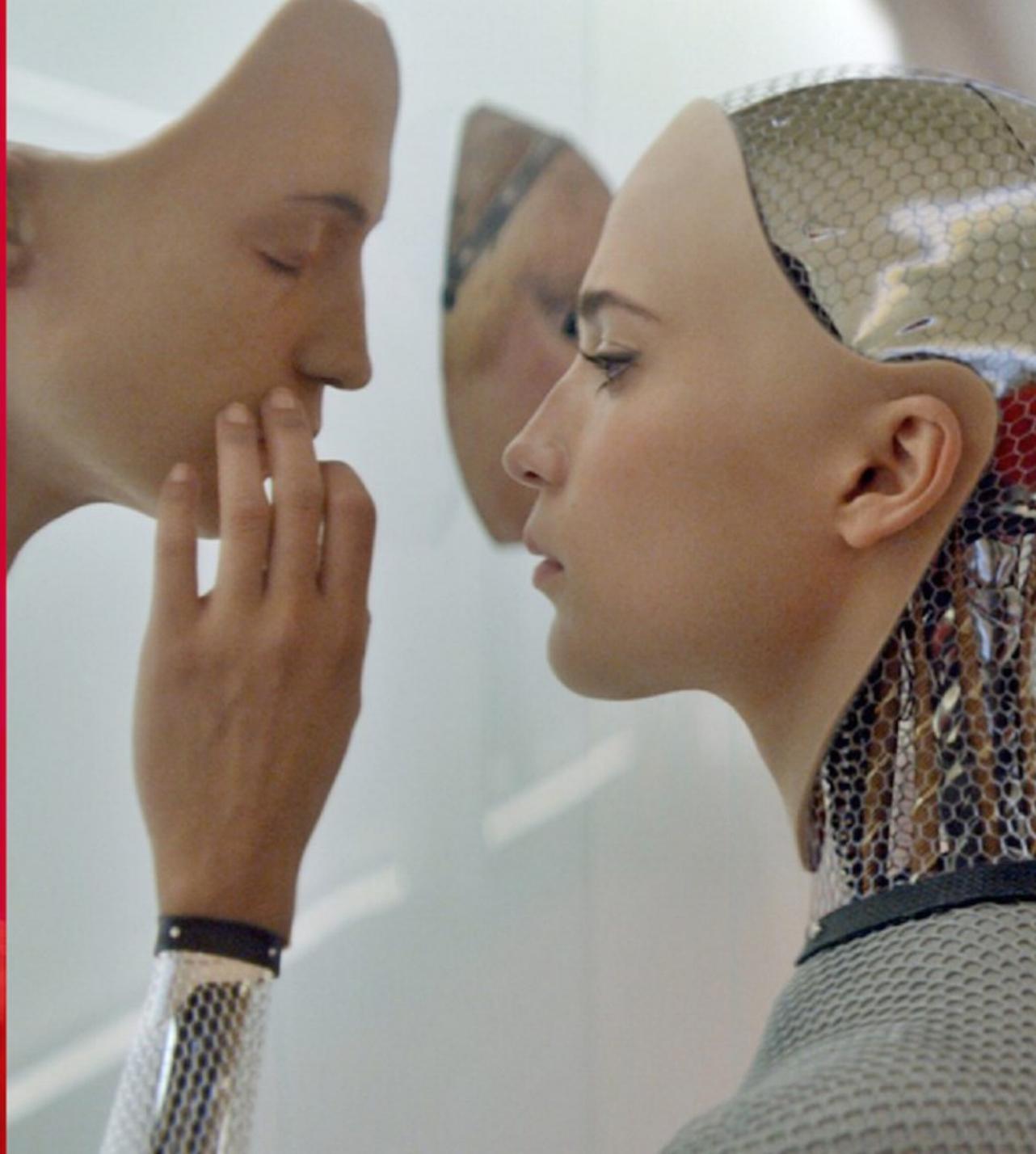


Emotions influence every
aspect of our lives



her

A SPIKE JONZE LOVE STORY



What if doctors could objectively measure how you are **feeling the way they measure our other vital signs?**



A close-up photograph of a woman with long brown hair driving a car. She has a frustrated or angry expression on her face, with furrowed brows and a slightly open mouth showing teeth. The background is a blurred green landscape seen through the car window.

What if our cars knew
we were getting
angry and **could make**
our brakes more
responsive?

How do humans read emotions?

Emotion sensing is **highly complex**. Humans interpret emotions by combining multiple channels:



55%

Facial expressions and gestures



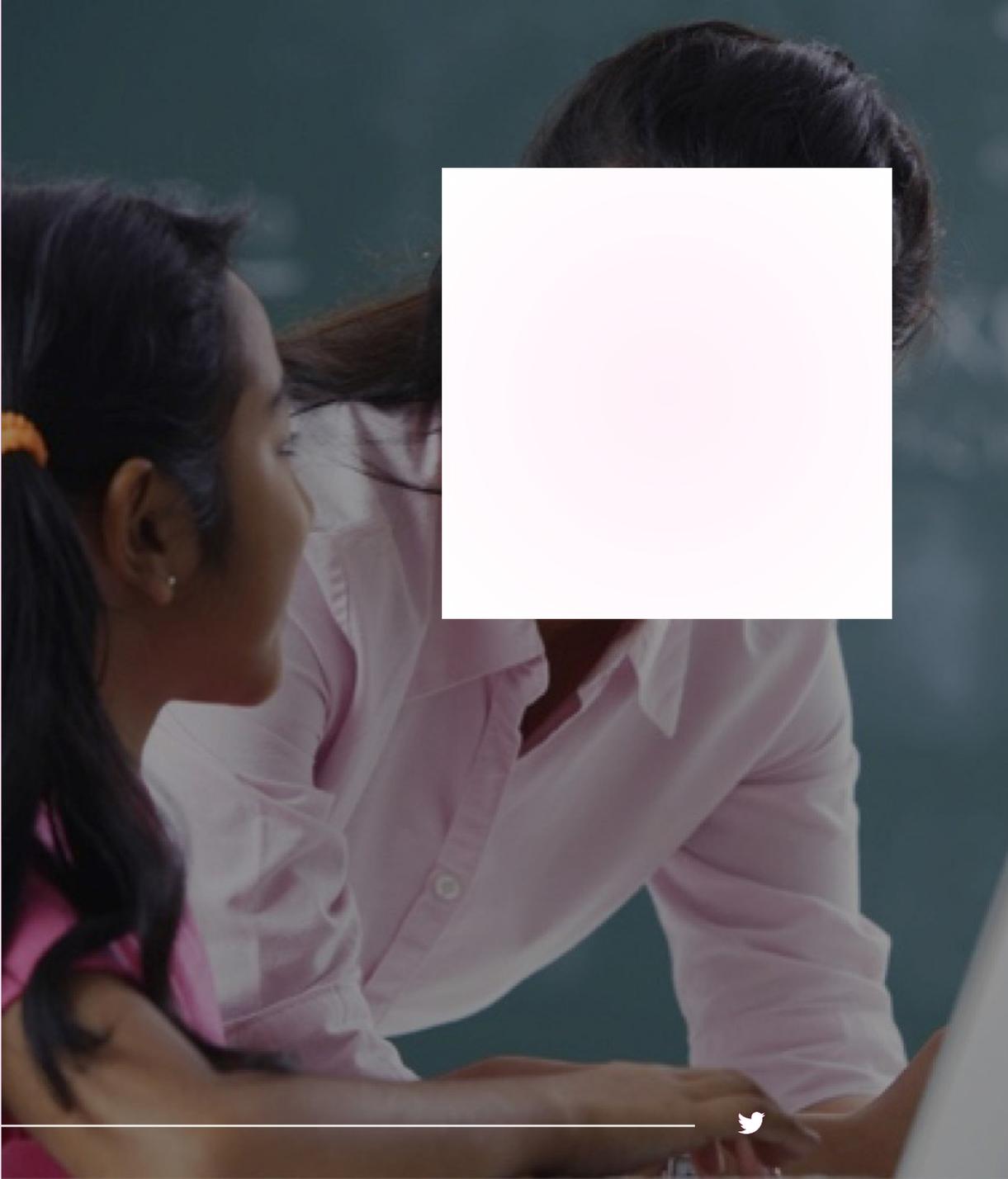
38%

How the words are said



7%

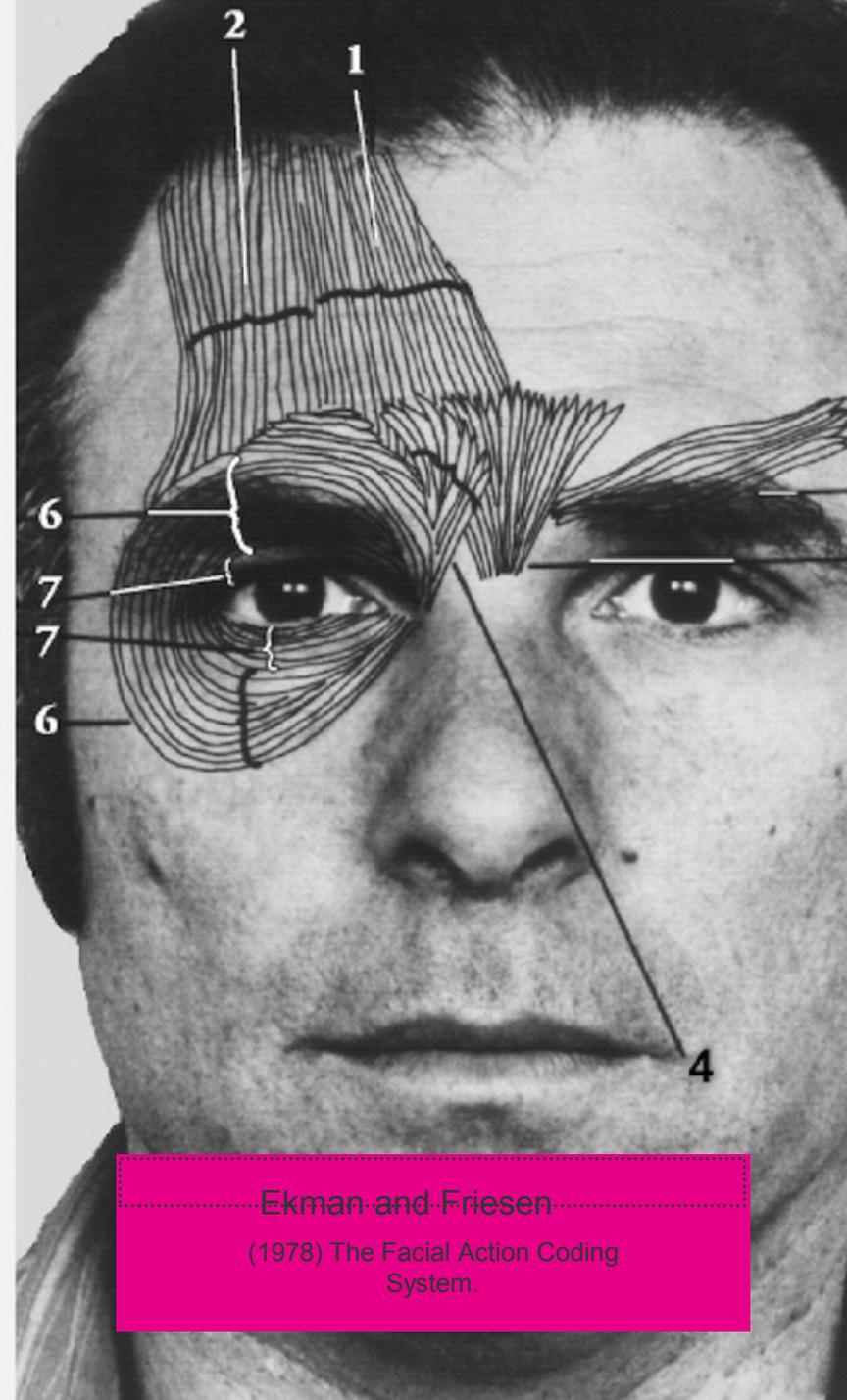
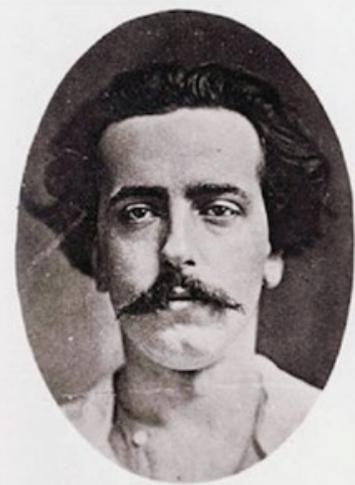
The actual words





Duchenne de Boulogne

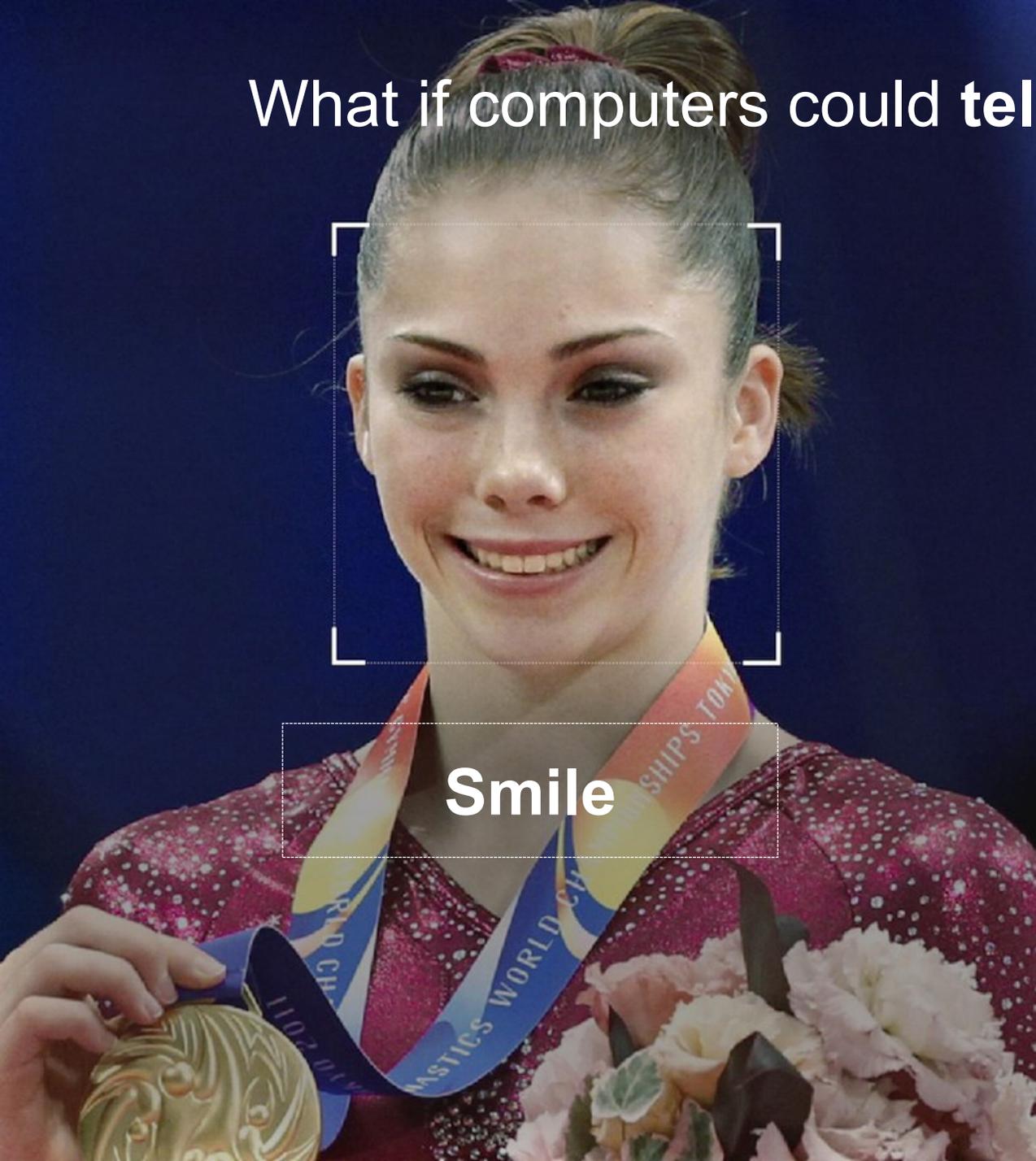
(1862) The Mechanism
of Human Physiognomy.



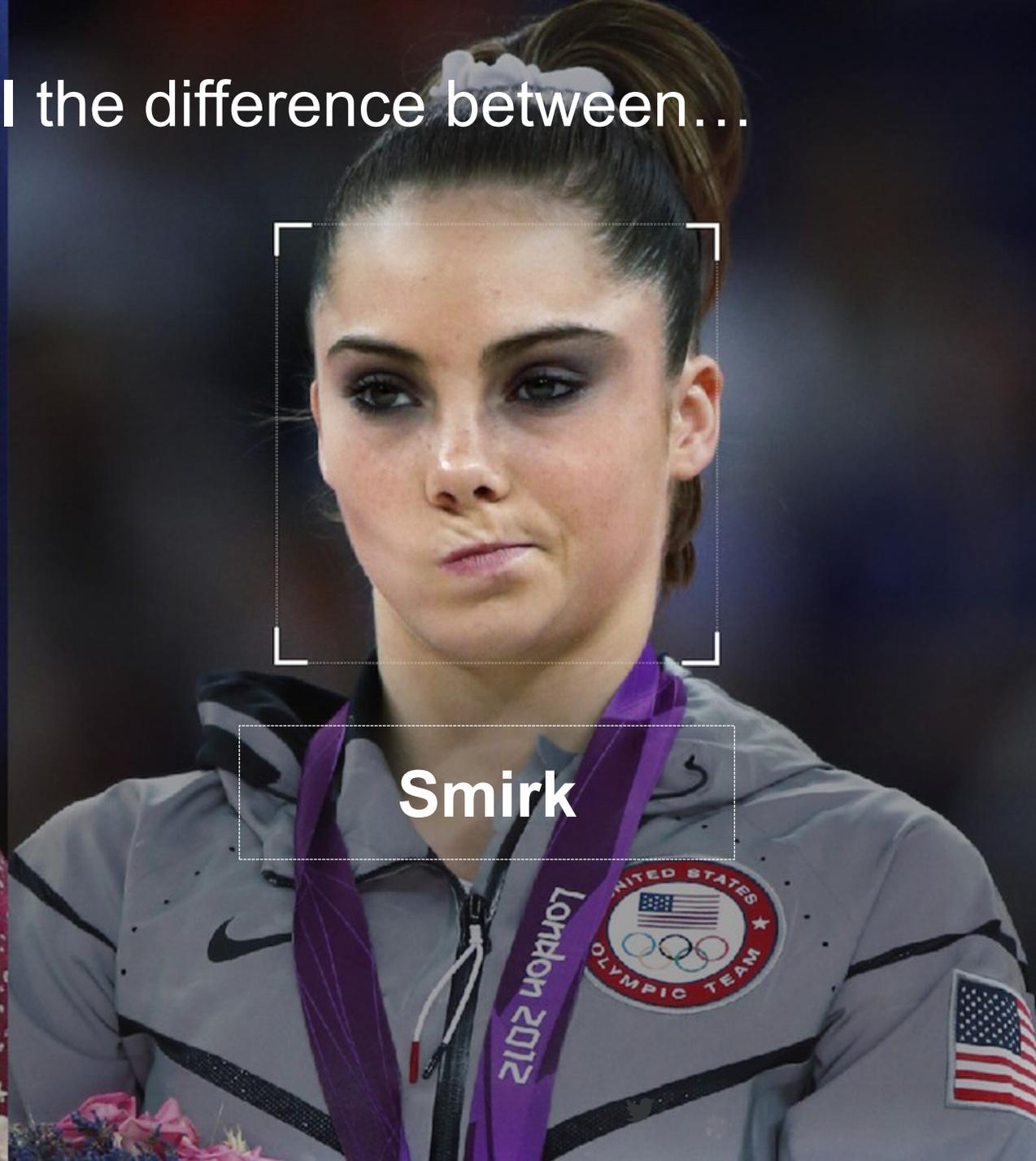
Ekman and Friesen

(1978) The Facial Action Coding
System.

What if computers could tell the difference between...



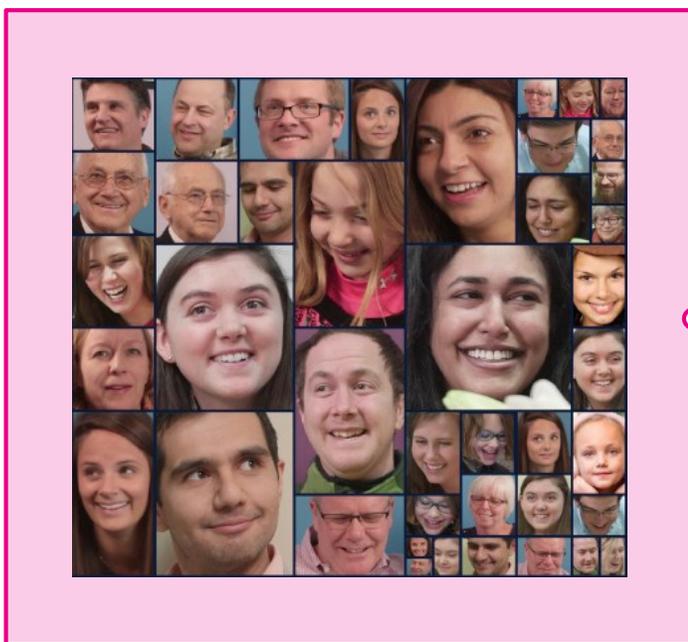
Smile



Smirk

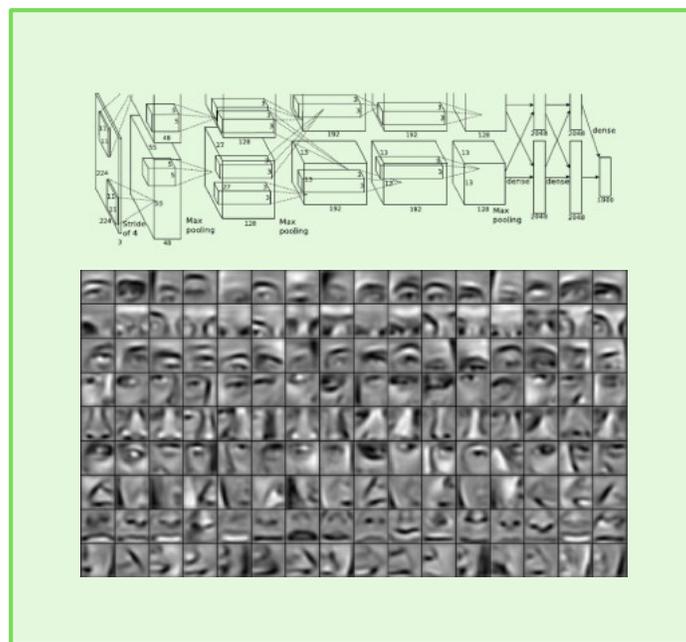


Emotion AI platform built on deep learning

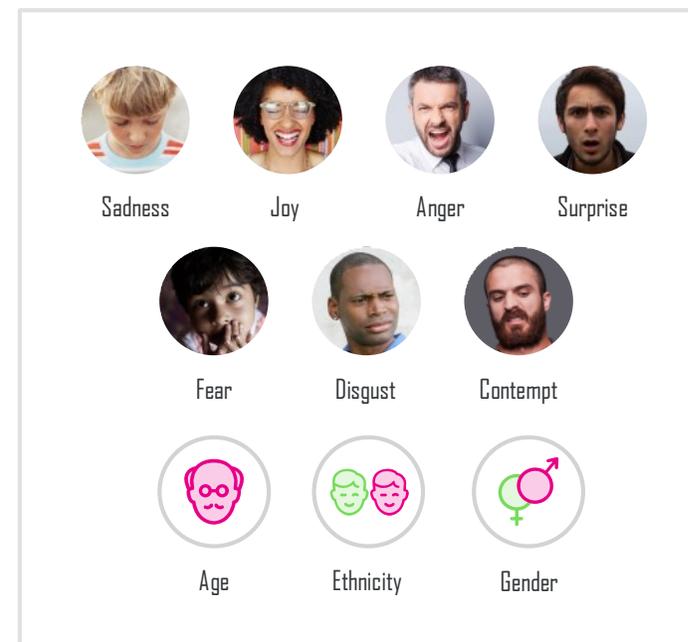


Input:

Labeled and unlabeled videos (+voice) data. Meta data. Latest training used 1M+ images.



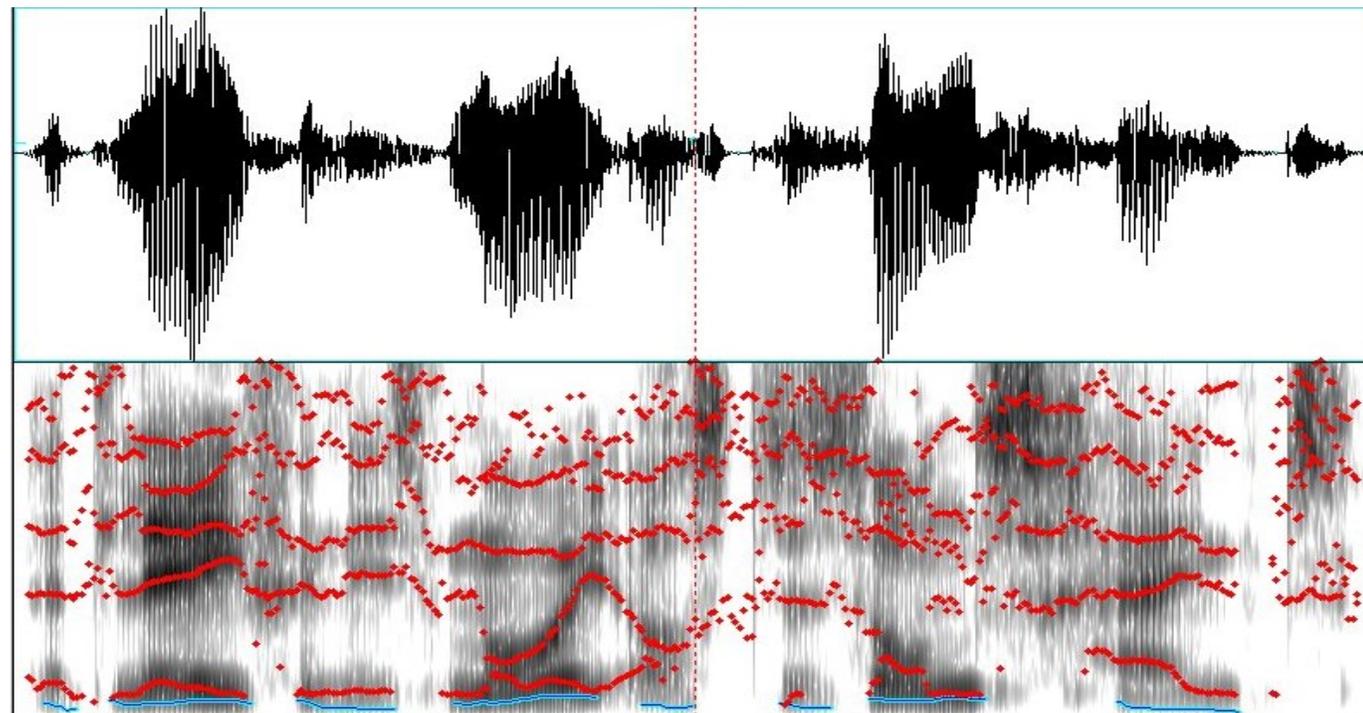
Deep Neural Networks



Output:

23 Facial expressions
7 Emotions
Valence, Engagement, Attention, Age, Ethnicity, Gender

Emotion from Speech

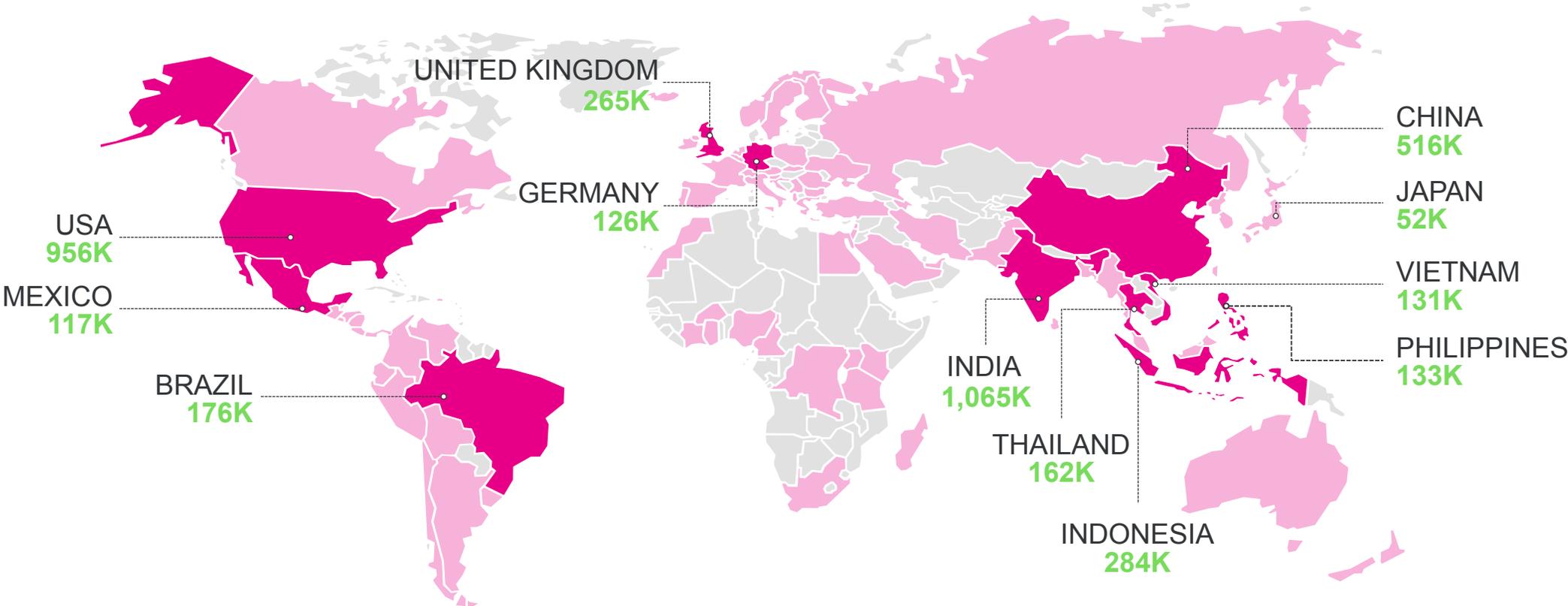


World's largest **emotion data repository**

87 countries, 6M faces analyzed, 2B facial frames

Includes people emoting on device, mobile phone and while driving

Top Countries for Emotion Data



Emotion AI – Possible Markets



Tega learning companion for kids



Tega helped Children to learn more words in shorter duration



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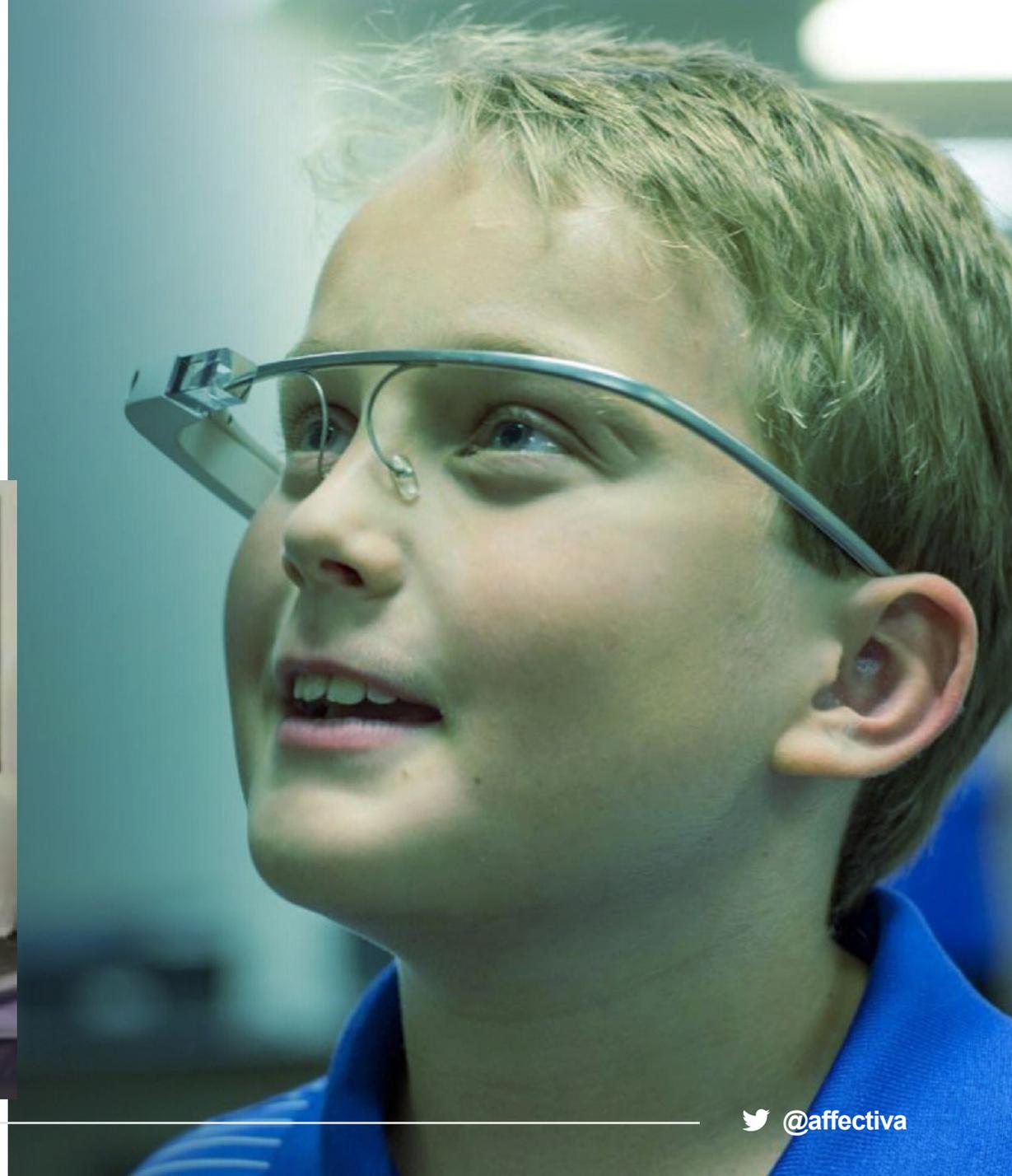
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Health and Wellbeing

Brain Power: helping individuals on
the autism spectrum



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The merger of IQ & EQ in tech is inevitable



SMILE	100
JOY	99.991
CONTEMPT	0.00
ANGER	0.00
EXPRESSIVENESS	100.00

Learn more
www.affectiva.com

