FACEX

THE APP *Let's build it!*

30%
SAD

angry

60%
HAPPY

surprise

What is it?

FaceX is a spontaneous facial expression classification system that recognizes basic emotions such as happy, sad, surprise/fear and anger/disgust. Anatomically, facial expression can be decoded using the Facial Action Coding System (FACS) into around 44 Action Units (AU) based on specific sets of facial muscle contractions. Emotion states can be captured spontaneously through sequential changes in these AU combinations at peak expressions. The goal is to accurately predict user's facial emotion based on video or photo input.

We got data!

The Cohn-Kanade AU-Coded Expression Database (CK and CK+) is a collection of consecutive frames taken from short video clips of around 120 subjects. The expressions in each frame are labeled by FACS professionals and will be used to train the FaceX neural network.
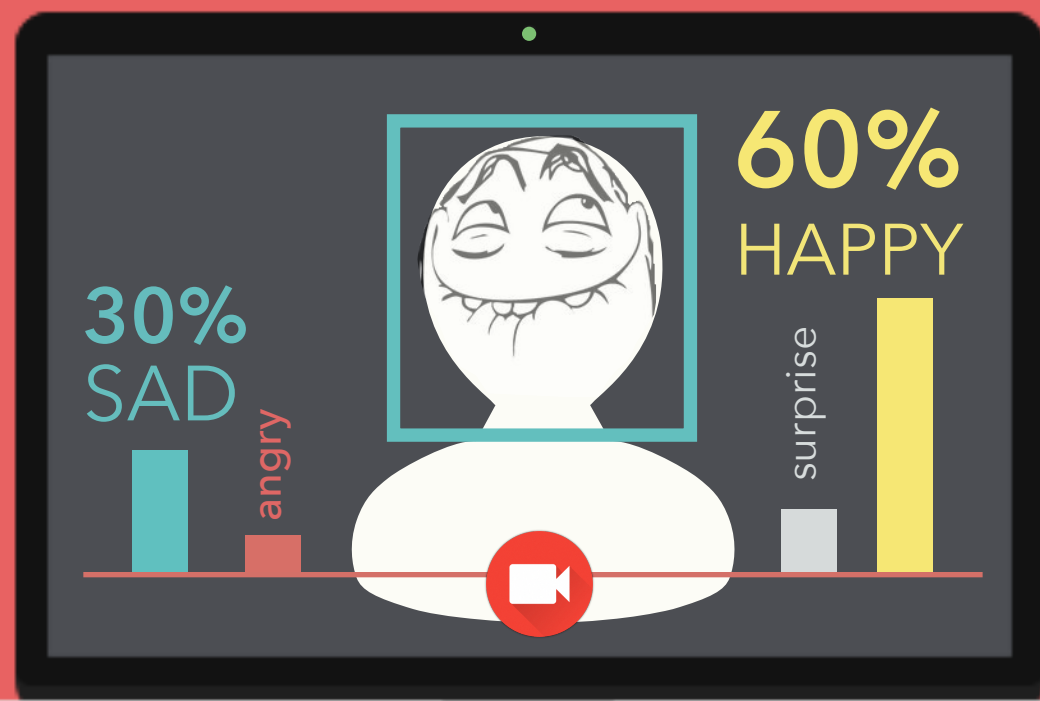
Web Page

A beautiful static webpage to showcase the training process of FaceX and analysis of facial expression study. It can be built on CSS/HTML templates or web developer's choice. I can create customized graphic designs if necessary.

Web App

An functional web app using users' webcam or photo uploads to predict real-time facial emotions. The app requires integration with OpenCV (programmed w/ python) an open source computer vision software that can detect and recognize faces.

Interested?

(#) @jostineho   **slack me!**

(✉) jostine.ho@gmail.com

(○) github.com/JostineHo