FACIAL EXPRESSION CLASSIFIER

TEAM: FACIAL INTERPRETERS

MARIN AZHAR

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ABOUT THE TEAM

Name: Marin Azhar

College: Queens College

Major: Applied Math

Motivation for Project: I'm interested in getting one step closer to understanding how applications such as hireVue works.

Name: Joseph Liu

College: New York City College of Technology

Major: Data Science

Motivation for Project: To communicate better with others, I wish to learn how people recognize different facial expressions.
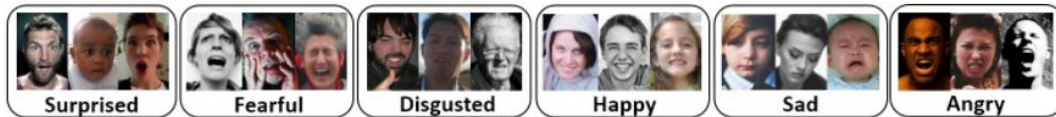
DATA DESCRIPTION

Details

Real-world Affective Faces Database (RAF-DB) is a large-scale facial expression database with around **30K** great-diverse facial images downloaded from the Internet. Based on the crowdsourcing annotation, each image has been independently labeled by about **40** annotators. Images in this database are of great variability in subjects' age, gender and ethnicity, head poses, lighting conditions, occlusions, (e.g. glasses, facial hair or self-occlusion), post-processing operations (e.g. various filters and special effects), etc. RAF-DB has large diversities, large quantities, and rich annotations, including:

- **29672** number of **real-world images**,

- a **7-dimensional expression distribution** vector for each image,

- two different subsets: **single-label subset**, including **7** classes of basic emotions; **two-tab subset**, including **12** classes of compound emotions,

- **5 accurate landmark locations**, **37 automatic landmark locations**, **bounding box**, **race**, **age range** and **gender attributes** annotations per image,

- **baseline** classifier outputs for basic emotions and compound emotions.

To be able to objectively measure the performance for the followers' entries, the database has been split into a training set and a test set where the size of training set is five times larger than test set, and expressions in both sets have a near-identical distribution.

Sample Images

Surprised   Fearful   Disgusted   Happy   Sad   Angry

CLASS BALANCE

	Count	Percentage	Expression
1	1619	10.554795	Surprise
2	355	2.314362	Fear
3	877	5.717452	Disgust
4	5957	38.835648	Happy
5	2460	16.037551	Sad
6	867	5.652259	Angry
7	3204	20.887933	Neutral

FINAL PRODUCT?

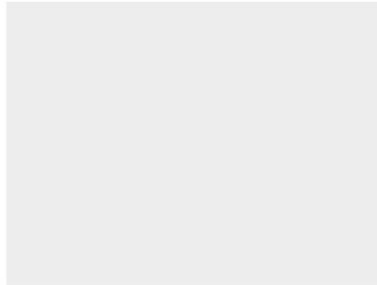

Welcome
This is the Facial Expression Classifier ⭐
Created by: People Intepreters

The FEC is a tool built using the RAF Dataset to classify an image as one out of seven emotions:

😮 😰 🤢 😋 🥺 😈 😐

Now, please upload your image:

Upload

😮 65% Match

THANKS!

Do you have any questions?
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