UNIVERSITY OF AUCKLAND
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ENGINEERING

EMOTION GUI: VISUALISATION & ANNOTATION OF EMOTIONS IN 2D - SPACE FOR MULTIMODAL SIGNALS

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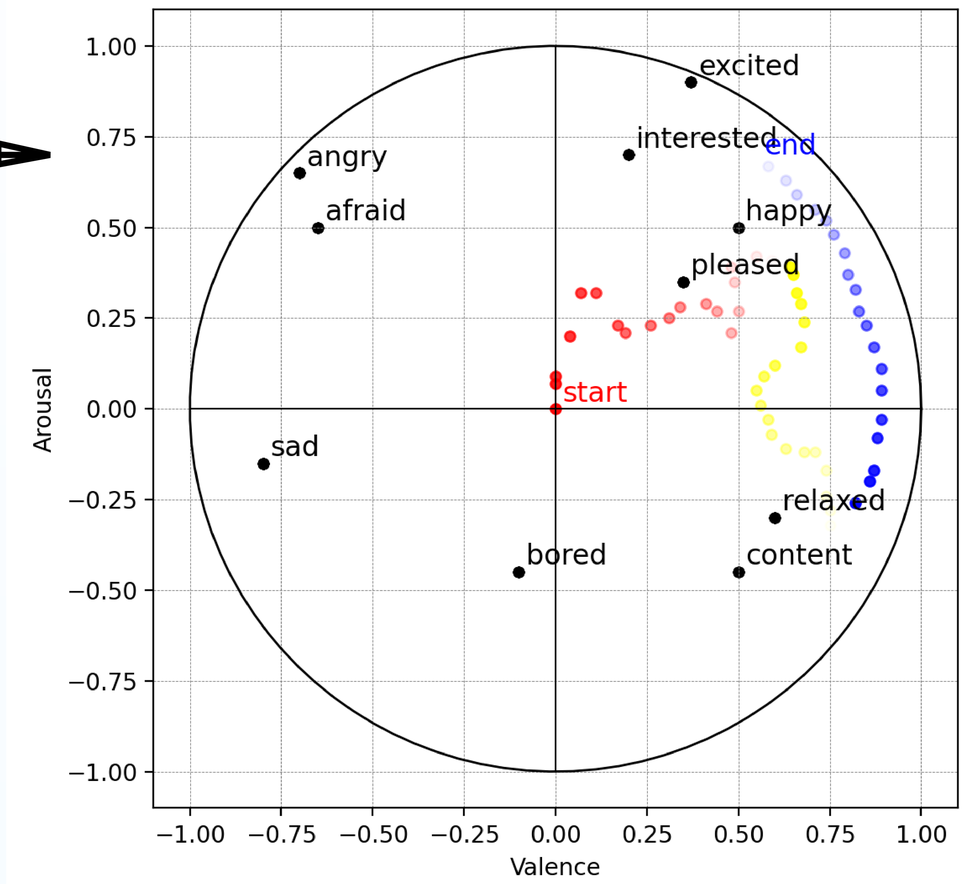
CSV File of emotional data → VISUALIZE

Audio File → Bi-LSTM Deep Learning Model



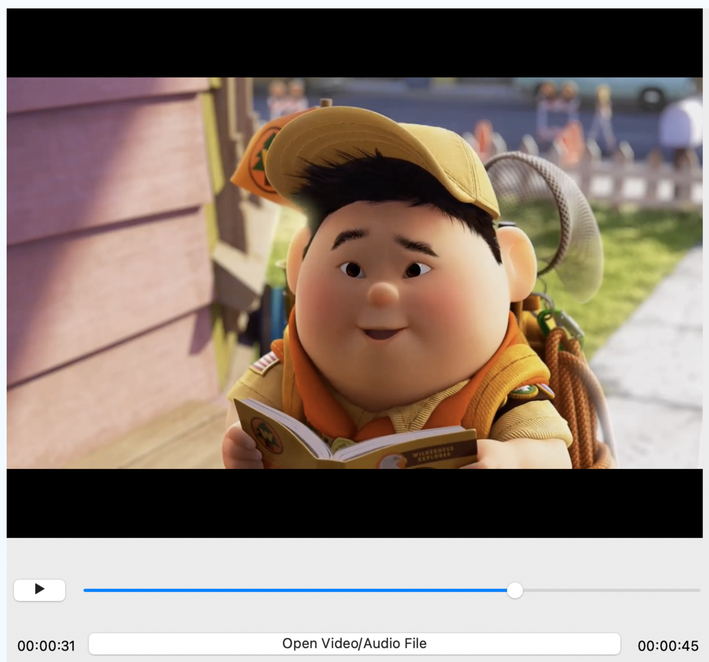
Time

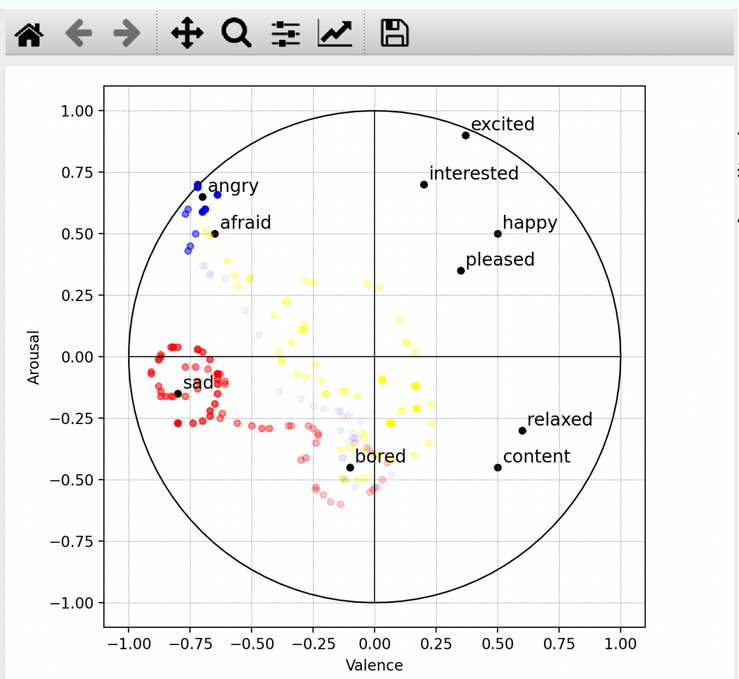
What is the use of this?

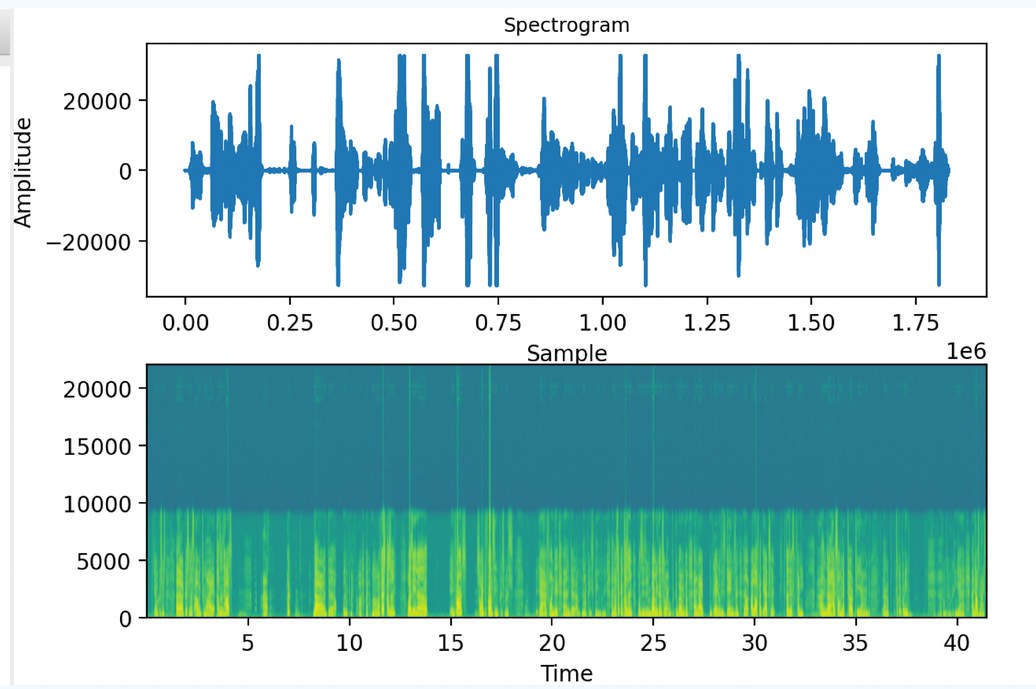
Deep Learning models are very data-centric and in order to train and be useful at predictions they require a good amount of data to learn from. Over the web or in any public platform the data available for DL training is quite less. There also doesn't exist any way using which we can create a dataset of emotions according to our needs.

Until now...

ANNOTATION OF VIDEO AND AUDIO FILES

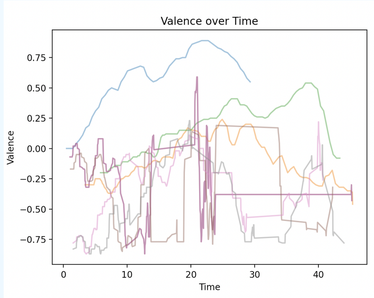


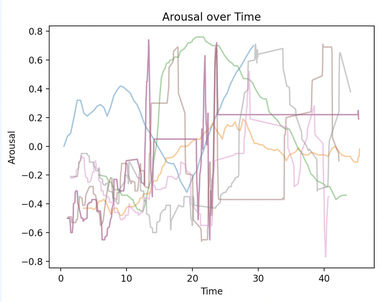




You can annotate and create time-dependant labels for any media file. This helps create emotionally annotated database for further deep learning training. Video pic credit- 'Up' (2009 Movie)

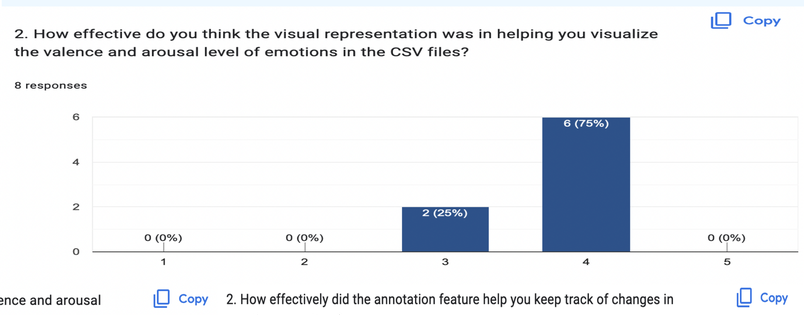
SURVEY RESULTS

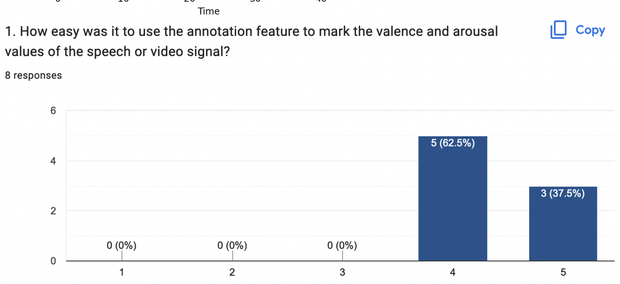


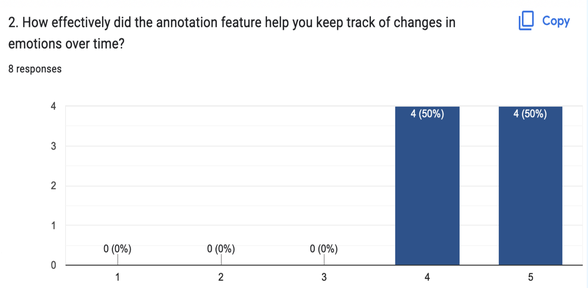


These graphs show how different annotators have annotated the same media file with respect to time.

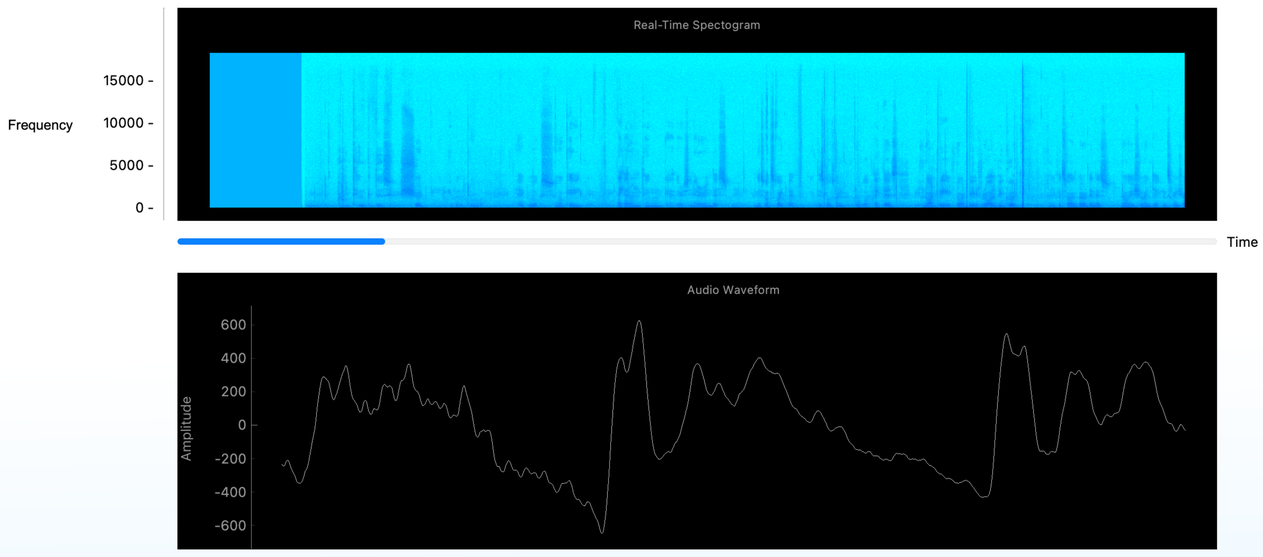
Each line is a time series representing the change of valence and arousal values over time.

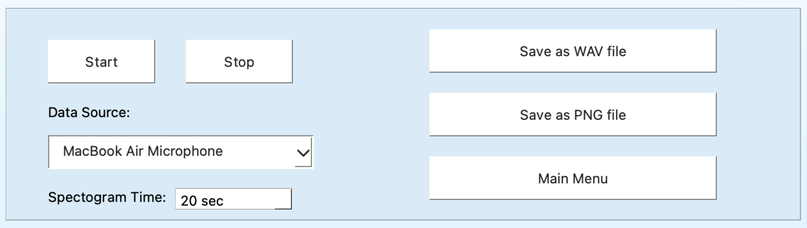






REAL TIME AUDIO COLLECTION





Scan this QR code to get the GitHub repo for the GUI

EmotionGUI has the added feature of real-time live audio analysis, allowing the user to create good quality speech *data* according to the niche needs. The platform also uses color visualization, which is color blind friendly, to represent emotions in a clear and easy-to-understand manner.