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## Augmented glasses that help people with Autism Spectrum Conditions identify and learn (to simulate) emotion





1. 1-on-1 conversations
2. Social learning

## Usage Scenarios



# How It Works

## Input

- Facial expressions
- Speech cues

## Output

- Name of associated emotion
- Pictorial representation of emotion



# Functions & Specifications



## Input

- Cameras
  - Facial (expression) recognition
  - Locks onto the person of interest when combined with audio input
  - Placed between the eyes
- Microphones
  - Listens for tone, volume shifts, keywords, etc.
  - Directionally tuned to focus directly ahead of the user

## Output

- Projector & Lens
  - Projector on the sides of glasses that displays info on the lens
  - Projects info next to person of interest
- Optional auditory feedback
  - Fed through bone conduction
  - Reads aloud textual output

## First-Time Use & Controls

1. Boot device (pulling motion on neck strap)
2. Connect to smartphone app, which handles data analysis using phone's processor,
3. Automatically engage sensors to focus on conversation partner when facing them
4. App stores data for personal review, if desired (and permitted by others)
5. Device tracks when the glasses are worn to go into standby mode or resume usage

