

# MySocialCoach: In-situ feedback to improve nonverbal communication

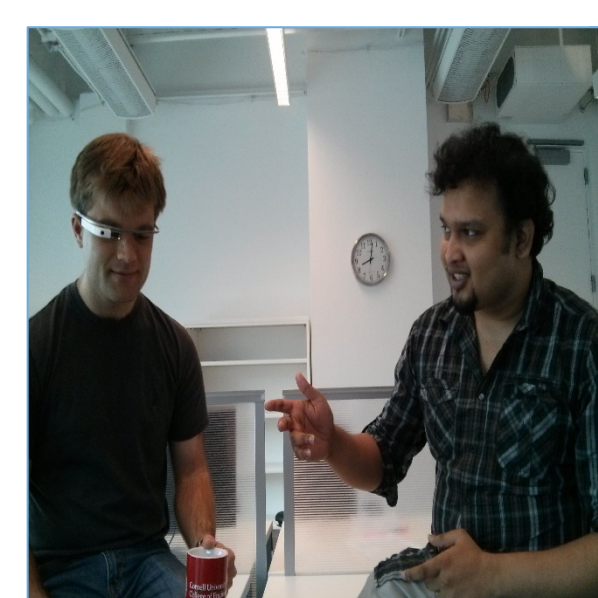
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## Motivation and Goal



Face-to-face communication plays a major role in our lives, and a major part of it is nonverbal

It is hard to consciously control nonverbal behavior, so people can give wrong impression without realizing it



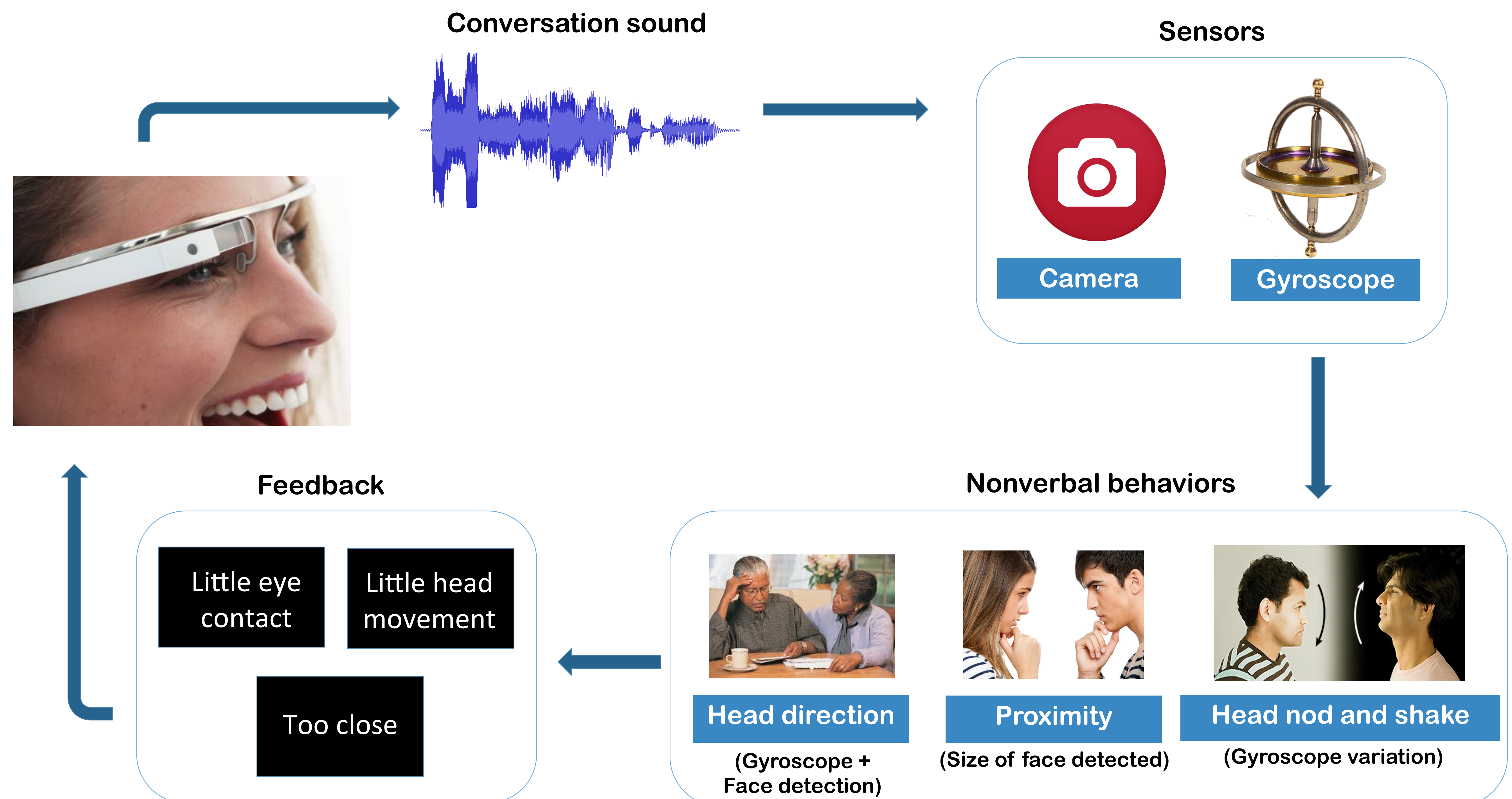
Google Glass allows to identify nonverbal behaviors that are hard to detect with other devices

Goal - Develop a Google Glass application to:

- Automatically identify nonverbal behaviors
- Present in-situ feedback



## Method



## Evaluation

### Initial user study:

- 5 participants
- Each participant used the app while talking during 4 minutes with a mediator
- Participant talked normally at first, and role-played a different behavior (disinterest, steady face, very close) every other minute
- Small interview was conducted after the task.
- Results: i) All participants described the feedback as accurate; ii) 3 participants suggested other ways of providing feedback

### Future user study:

#### Participant Recruitment

- Snowball sampling
- At least 10 participants (5 pairs)

#### Tasks

- Task 1: 2 participants talk normally. One uses the app.
- Task 2: Similar to the initial study.
- Video record the talk, collect and store data to use as ground truth

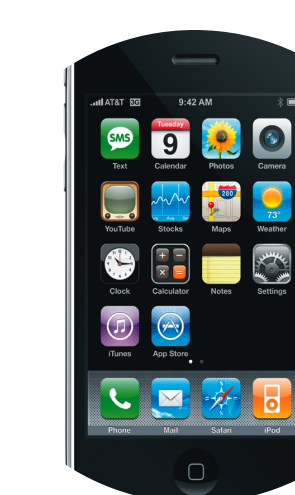
#### Survey

- Questions about:
  - How accurate was the feedback
  - How distracting it was
  - Impressions about the app

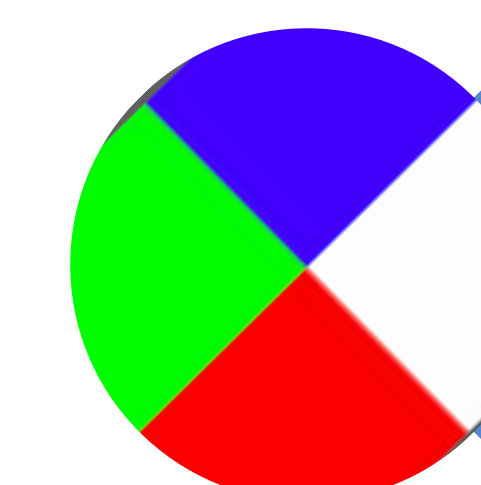
#### Data Analysis

- Calculate accuracy, precision and recall for each nonverbal behavior
- Evaluate results of the survey

## Future Work



Processing on the phone



Develop and test different types of feedback (visual and audio)



Detect other nonverbal behaviors