

# Working Prototype Known Problems Report

Face2Name

June 6, 2017

- **Facial Recognition Accuracy Issues**

- After selecting an unknown face and storing that identity, if the same face is selected again the app sometimes may not be able to recognize the face due to exterior conditions
  - For example lighting changes can create different shadows on a face, making it unrecognizable by OpenCV
- If a person is no longer looking at the camera straight on, their face may be unrecognizable
- The distance at which the face is from the phone's camera can affect the outcome since the rectangle that we draw to extract a face will be much smaller
- If the facial expression of a person changes dramatically when you try to identify them, the face may not be able to be recognized
- Different articles of clothing and other accessories worn may affect recognition
  - For example, if a person with glasses takes one picture with their glasses on, then another without, the face will likely not be recognized