Documentation

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1 Record of Tasks

The following is a general chronology of the development of this project. For a more thorough delineation of the project, take a look at the commit history on the GitHub page.

February 5-10: Began project, learned about the OpenCV library with facial recognition, motion tracking, and interfacing with the webcam or video files.

February 10-20: Worked on GUI, including live updating frames that display tracked objects. Learned and implemented a color tracker.

February 20-March 5: Improved accuracy of motion and color trackers. Implemented multi-object tracking capabilities.

March 5-15: Created object classes, implemented trajectory analysis of different objects including angle of object motion.

2 Design Overview

3 Rationale

4 Development