

# GP1 – Simple Program with OpenCV

Ersin Kunada, Gabriele di Rosa, Leonardo Iandiorio, Federico Pfahler

December 10, 2014

## Features

With our program, we want to give the possibility to put objects, play or interact with a board. To simplify our work, we choose a ChessBoard. We also choose to Add a simple face recognition, such as Face or hands. Our program will be based on OpenCV and Python.

To interact with the board, we will use the Webcam of the MacBook to recognize the Chessboard or Face.

List of main features:

1. Show the ChessBoard being recognised by the program
2. Display a simple 3 dimensional shapes over the Board
3. Display 2 dimensional images over the Board
4. Play Tic-Tac-Toe from the PC, printing the results on the Board ( representation of the moves)
5. Make "secret" messages with the board, that will be displayed only when the Board is in front of the camera
6. Face or hands recognition