



player get to reconstruct the beat depends on the amount of bricks that have to be laid out. After that the computer will interrupt and give the score. Proceed to the next level by pressing any key on the score screen and the process will start over with a different, more difficult beat.

### **How to build?**

Go to IKEA, buy FROSTA (\$15)! Use two legs of this chair to build the camera holder as shown. You will need a base for your cam holder. You can use anything heavy enough to keep the holder in place. We used a metal plate with a screw in it. You will need a HD Webcam where you can manually set exposure time and focus. Mount it on the holder about 40 cm above the board, facing down towards the board. The board consists of a big grey LEGO plate, where two 18x10 dot (currently the code needs two 34x10 plates) white plates are mounted. These are the fields for reconstructing the beat. In between both player's boards you can place a wall, to keep both players from copying from each other. The colors were chosen due to a compromise between better color recognition and availability of the plates. A black and white mix could work better. In a controlled lighting environment it works fine, but there is still room for improvement.

Place the PC/laptop so that both players can see it. It is beneficial, if Player One can reach the "Q" key and Player Two the "P" key.



