

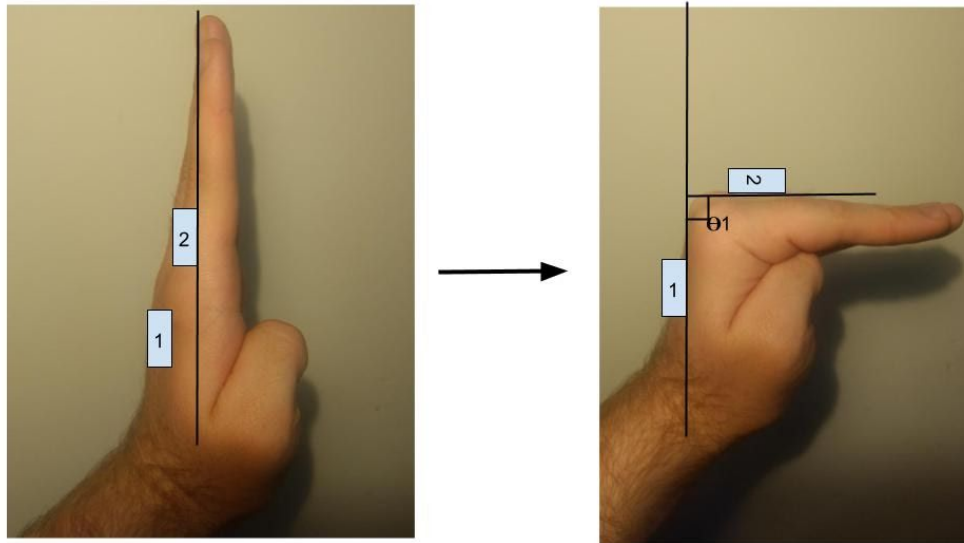
Exercises

This project aims to show the glove measuring angles between various joints on the hand and providing feedback to the user on how they could adjust the position of their hand to obtain the correct positioning for the exercise.

To show how the glove can be used, two exercises were chosen that can be performed as part of physiotherapy to improve strength of the fingers.

Exercise 1

Shown below in figure x is exercise one which requires two accelerometers. At the start of the exercise (shown on the left of figure x) all the accelerometers have an angle of zero between them. The user then bends the knuckle so that the back of the hand and fingers are at 90 degrees (This can be seen to the right of figure x).



Exercise 2

Shown below in figure x is exercise two which requires four accelerometers. At the start of the exercise (shown on the left of figure x) all the accelerometers have an angle of zero between them. The user then bends the joints in the fingers into the position seen to the right of figure x. The angles from 2 to 3 and 3 to 4 are required to be as close as possible to 90 degrees.

