

Capacitive Touch Demonstration

Category: Interactive workshop




Note electronic versions of all supporting documents are found on the memory stick in this tray.

Overview



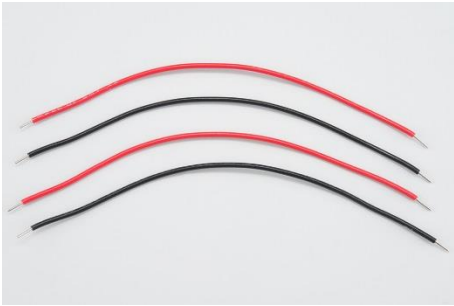

This interactive workshop covers microcontroller programming and the concept of capacitive touch. It is a flexible task that can be aimed at a range of abilities. For younger ages the boards can be preprogrammed before the workshop and students build the circuit and work in groups to think of applications. More adept groups can work on programming the Arduino themselves and modify the code in order to learn programming principles.

Contents

For each group ensure you have the following:

Arduino Board	
USB B Cable	
Square of tinfoil	



1MegOhm Resistor	
1 crocodile clip	
Length of wire	
USB Memory stick with teaching materials and sample code	
Laptop/Computing for coding	
9V DC Power supply (Only required if the simpler workshop is being carried out without the coding/laptops)	

The boards are programmed using the Arduino IDE. More information on downloading it is given in the following link.

<https://www.arduino.cc/en/Main/Software>