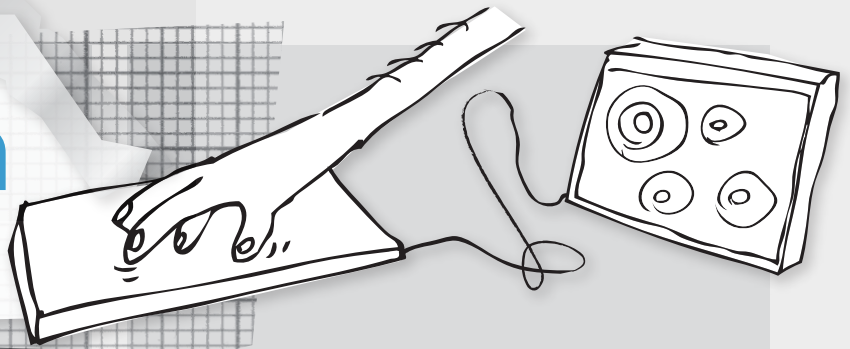


Build your own Multitouch Device



An MTmini is a quick and easy way to get started with multi-touch computer interaction, without the need for an expensive projector or touchscreen PC. You will need a PC running Microsoft Windows and an internet connection.

Once you've built one following these instructions, and installed the software, you'll be able to try out some cool Flash demos right out of the box, and you'll be on the road to developing your own multi-touch applications.

Materials

In order to build an MTMini you will need:

- A cardboard box, about the size of A4 paper
- A USB/Firewire webcam
- A piece of perspex for the touch-surface (An A4 picture frame is ideal)
- A piece of plain paper, the same size as the perspex
- Some sticky tape and blu-tac

1 Prepare your box

Your box should be about the same size as your sheet of perspex, because the perspex is going to be the 'lid' of the box. If it has some flaps or a lid, you might be able to extend the box upwards. The taller it is, the more of your touch surface you'll be able to use.

Next, you'll need to make a hole in the side of your box for the camera cable to come out. Be careful with those scissors!

2 Fix your webcam

Take your webcam and fix it to the bottom of the box, facing upwards. Make sure to line up the long sides of the camera picture with the long sides of the box. Pass the camera cable out through the hole you just made.

3 Make your touch surface

The surface is very simple. The main parts are a piece of perspex with a sheet of paper on top of it. So tape your paper to your perspex. If you're using a picture frame, then attach the frame. Make sure you've got it paper side up.

4 Assembly!

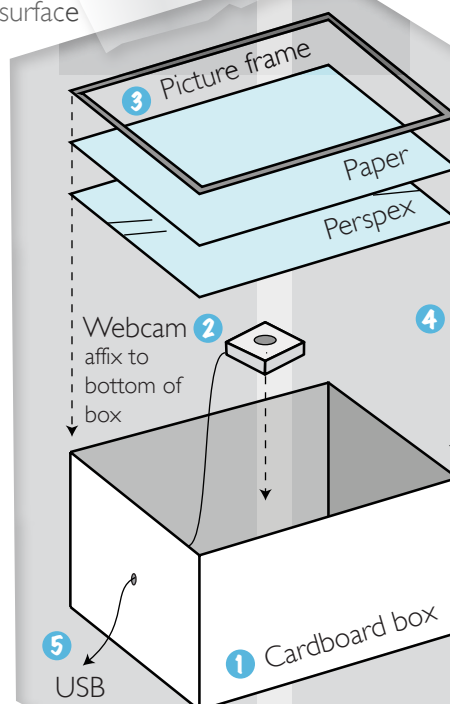
The final stage is to attach the surface to the box. Using some tape, attach your touch surface to the top of your box, paper side up. You're almost ready!

5 Software

Download the MTmini software package from here:

<http://tinyurl.com/659ubb>

This link will download a zip file to your computer. Extract the contents of the file, and follow the instructions in "MTmini - Getting Started.pdf".



Additional Resources

Seth Sandler, the guy who came up with this idea has posted a video-guide to building your MTmini here:

<http://tinyurl.com/dzxxw3>

There are loads of excellent resources on the nuigroup website, here:

<http://nuigroup.com/>