TechDu Workshop | Interactive Paintings

Your painting will have two exciting elements -
it will turn on a light and trigger sound from the computer!

Instructions

TOUCH SENSOR

To create the touch sensor you will use Bare Conductive paint. Draw anything you like (shape, animal, your name, etc.), we recommend you use stencils. Get some paint on the brush and fill your drawing with Bare paint. The paint is very effective so you don't have to apply much of it. Draw a line from your drawing to one of the edges of the paper. Once you're done, let it dry to reach its full conductivity. You can use a hairdryer to make it dry quicker.

LIGHT

To light your LED you will first have to select its position on the paper. You can choose to have it on the front of the painting or popping from the back of it. For the latter we will make a hole with a hole puncher and make sure it can go through. Draw two paths of Bare paint on the paper, one for each leg of the LED. Make sure you cover the LED's legs too (this could be from either side).

Make sure the paths do not meet to avoid short circuit.
You can add tape over the paint after it dries for some extra stability for the LED legs.

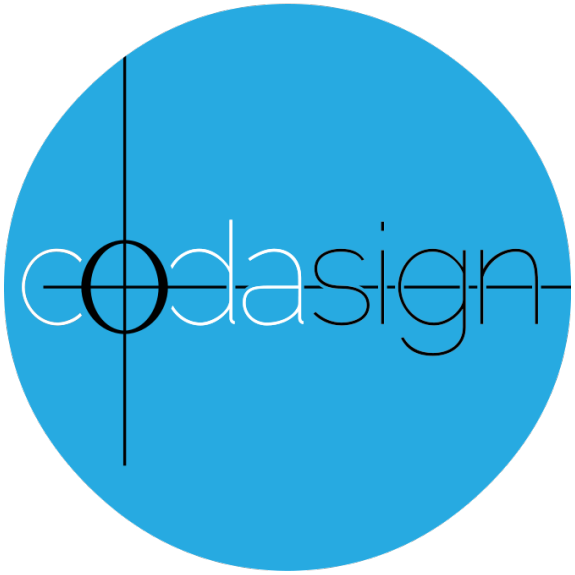
How this actually works?

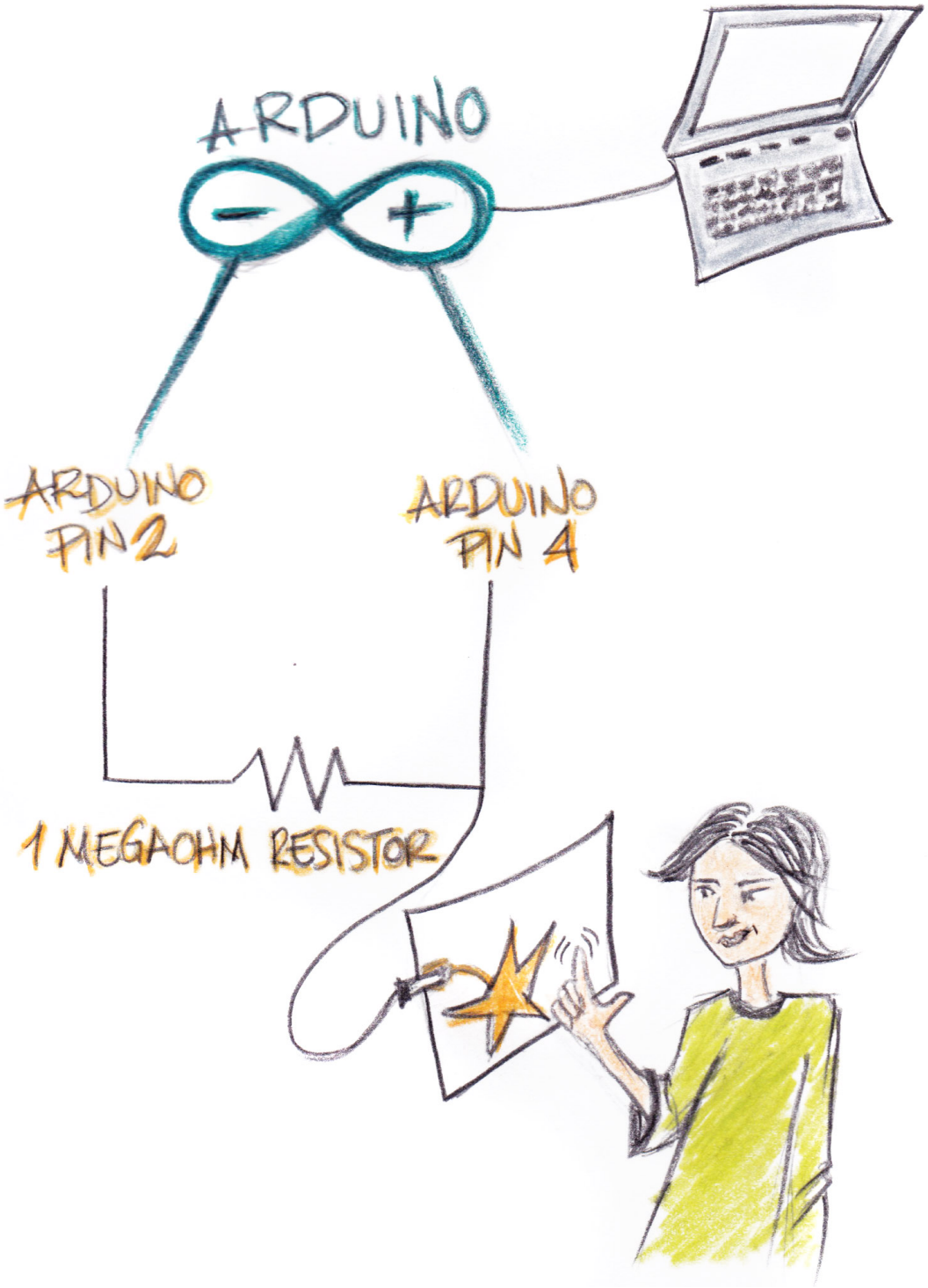
TOUCH SENSING

Single surfaces (or lines) of Bare Paint work as antennas for sensing touch. The technical term for this technology is: capacitive sensing.

TURNING ON A LIGHT

Light Emitting Diode (LED) has polarity, that means that one leg can only connect to power (positive) and the other connects to ground. (GND - negative). The positive leg is longer than the other. For the LED to light it must be connected the correct way, otherwise the LED won't light up.





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