

```
/******
```

This is a library for the MPR121 12-channel Capacitive touch sensor

Designed specifically to work with the MPR121 Breakout in the Adafruit shop

----> <https://www.adafruit.com/products/>

These sensors use I2C communicate, at least 2 pins are required to interface

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Written by Limor Fried/Ladyada for Adafruit Industries.

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```
*****/
```

```
#include <Wire.h>
```

```
#include "Adafruit_MPR121.h"
```

```
// You can have up to 4 on one i2c bus but one is enough for testing!
```

```
Adafruit_MPR121 cap = Adafruit_MPR121();
```

```
// Keeps track of the last pins touched
```

```
// so we know when buttons are 'released'
```

```
uint16_t lasttouched = 0;
```

```
uint16_t currouched = 0;
```

```
void setup() {
```

```
  while (!Serial);    // needed to keep leonardo/micro from starting too fast!
```

```
  Serial.begin(9600);
```

```
  Serial.println("Adafruit MPR121 Capacitive Touch sensor test");
```

```
  // Default address is 0x5A, if tied to 3.3V its 0x5B
```

```
  // If tied to SDA its 0x5C and if SCL then 0x5D
```

```
  if (!cap.begin(0x5A)) {
```

```
    Serial.println("MPR121 not found, check wiring?");
```

```
    while (1);
```

```
  }
```

```
  Serial.println("MPR121 found!");
```

```
}
```

```
void loop() {
```

```
  // Get the currently touched pads
```

```
  currouched = cap.touched();
```

```
  for (uint8_t i=0; i<12; i++) {
```

```
    // it if *is* touched and *wasnt* touched before, alert!
```

```
    if ((currouched & _BV(i)) && !(lasttouched & _BV(i)) ) {
```

```
      Serial.print(i); Serial.println(" touched");
```

```
    }
```

