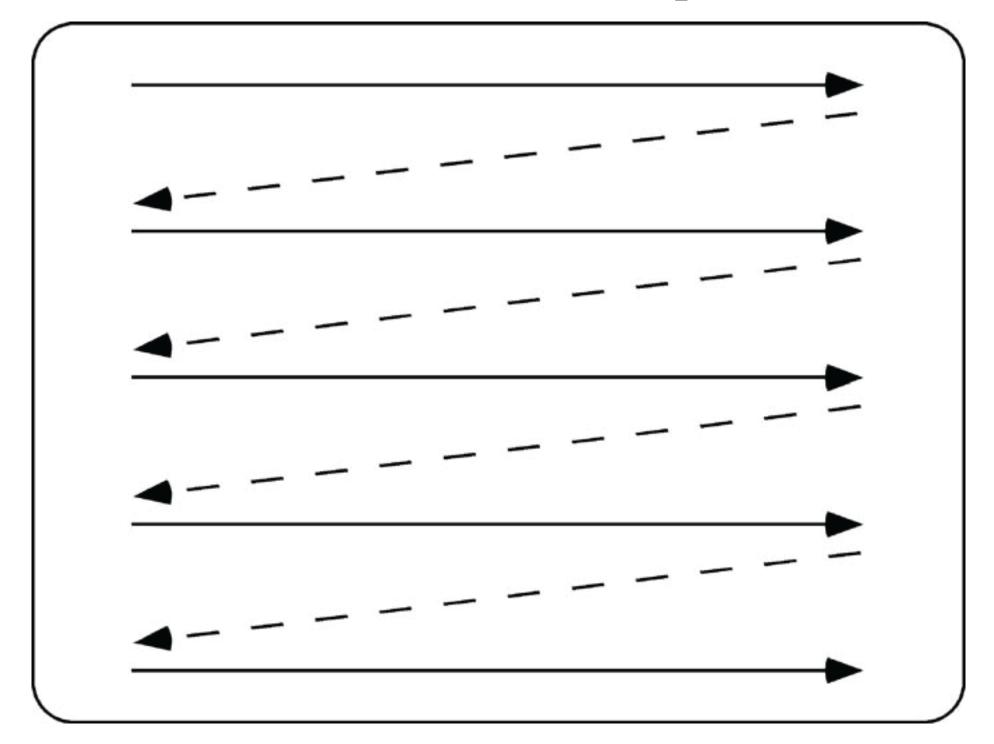
Video Art Synthesizer Workshop



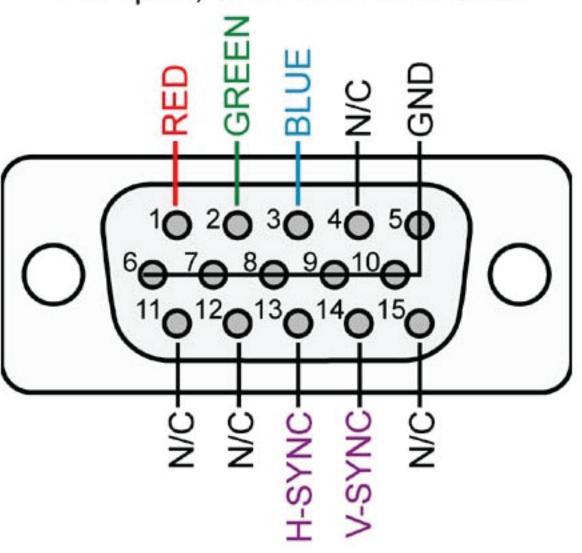
Fablab Digiscope

Raster Scanning

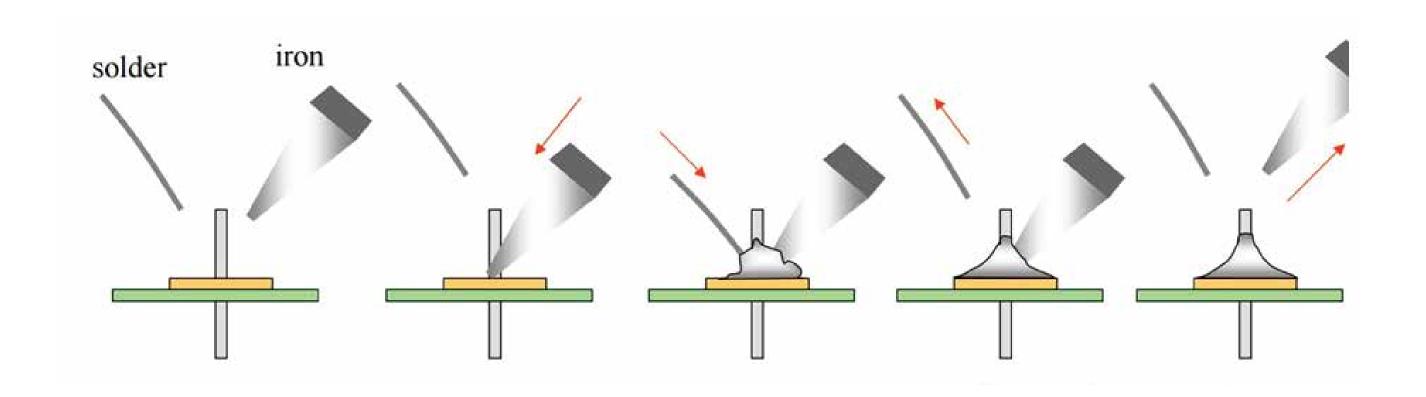


VGA Pinout

VGA port, view from Wire Side



How to solder



Practice first on scraps

Arduino

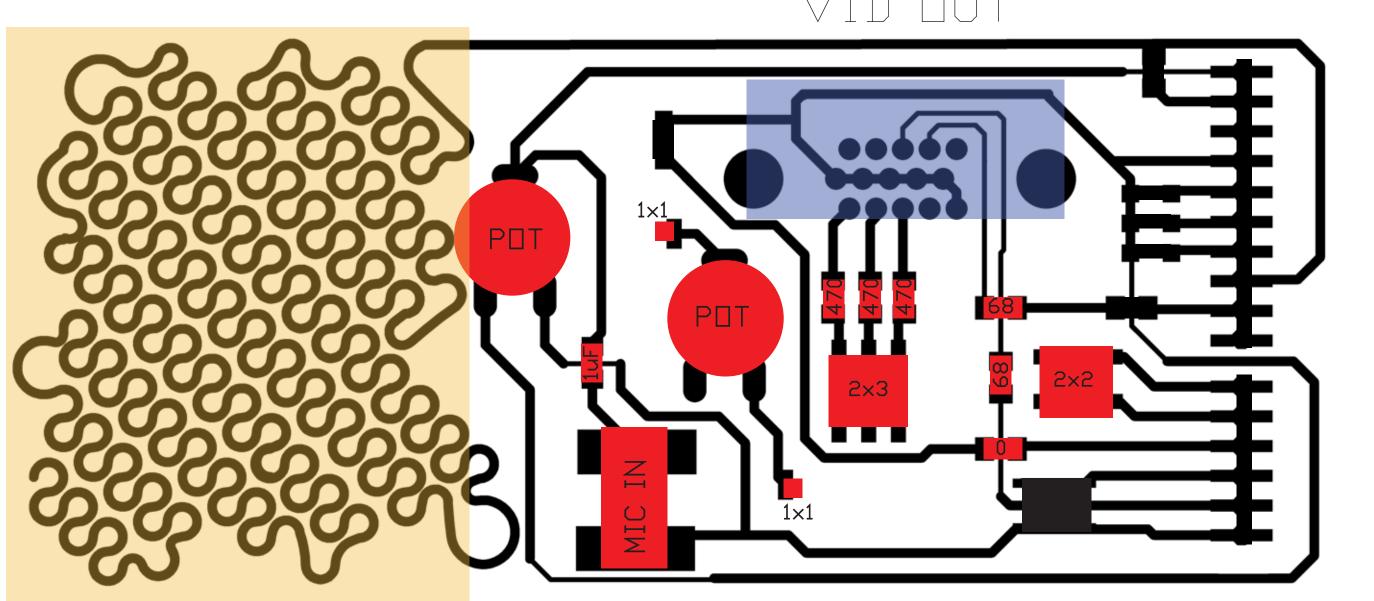
Setup ----

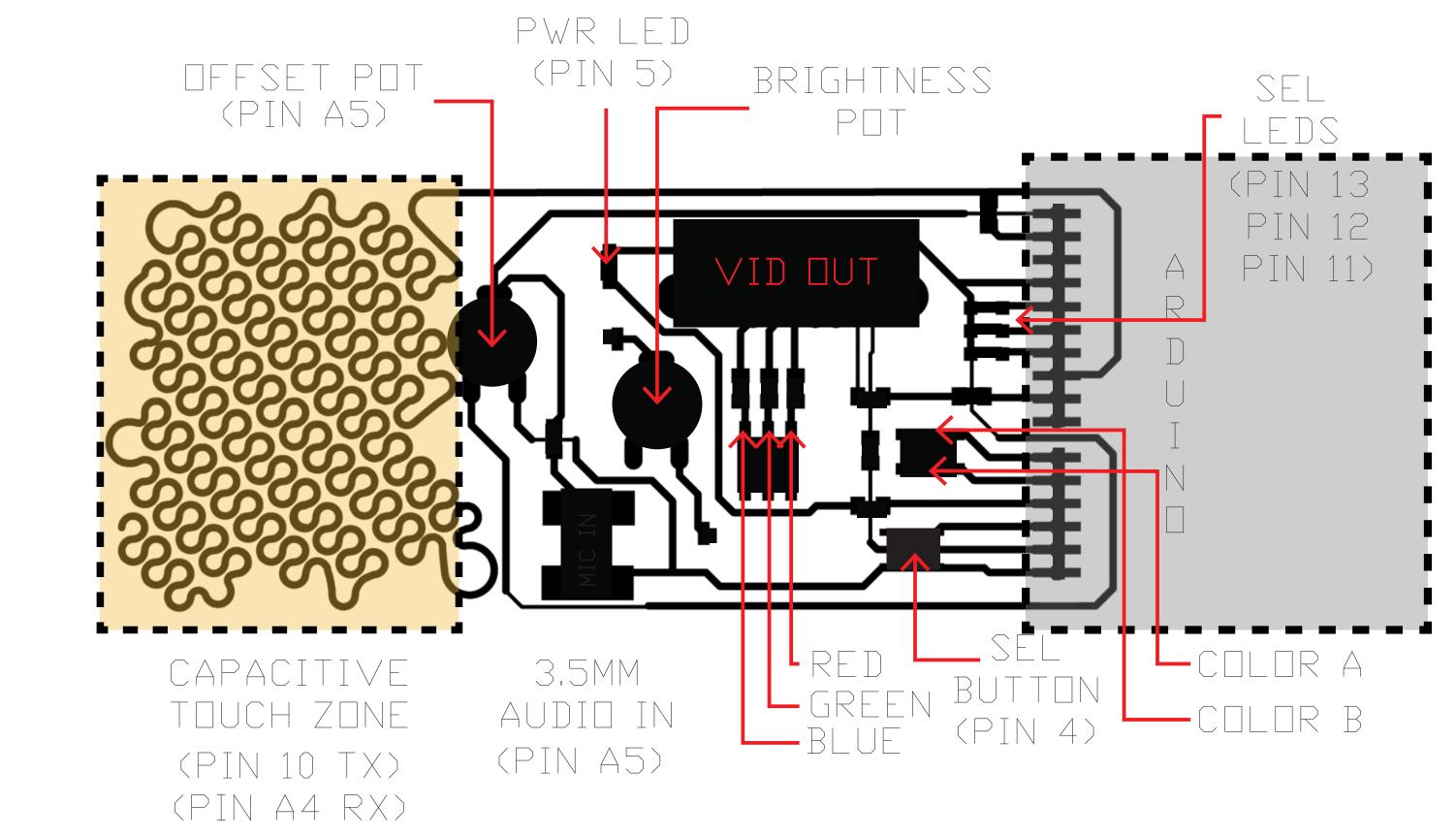
Loop -----

```
_ _ _ X
sketch_sep28a | Arduino 1.8.19
File Edit Sketch Tools Help
  sketch_sep28a
void setup() {
   // put your setup code here, to run once
 void loop() {
   // put your main code here, to run repea
                                       Arduino Uno on COM56
```

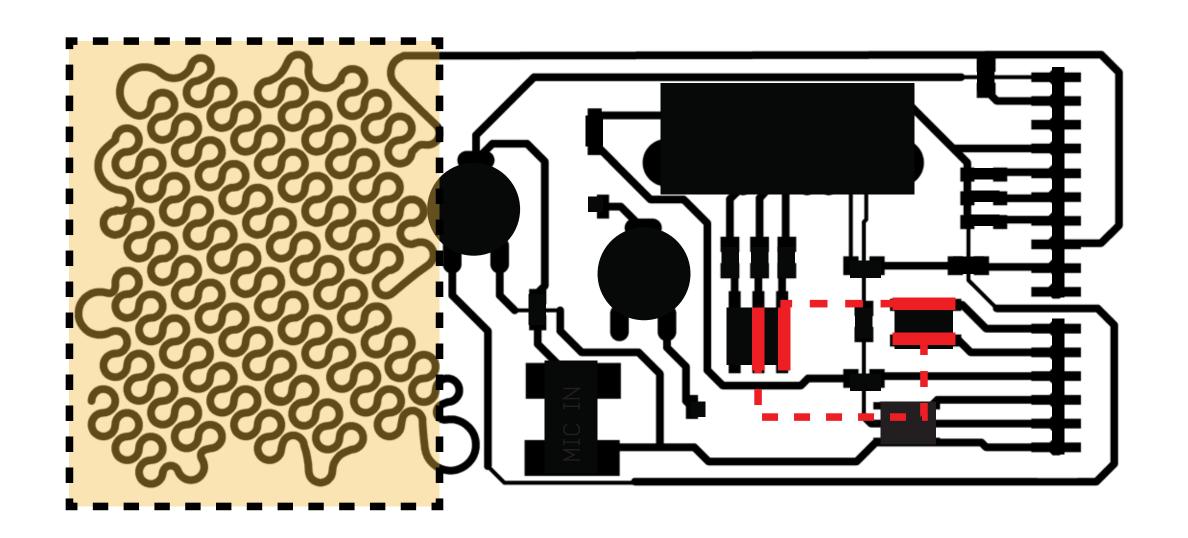
Things to solder







How to use the synth



PLUG IN COLORS A/B TO EITHER RED, GREEN, BLUE OR THRU BRIGHTNESS POT

BYTE BEATS

$$+ - \times / \%$$
 MATH OPERATORS

VGAX PATTERN

```
Pattern | Arduino 1.8.19
File Edit Sketch Tools Help
#include < VGAX.h>
VGAX vga;
void setup() {
 vga.begin();
  vga.clear(11);
void loop() {
for(int i=0; i<255; i++){
  for (int y=0; y!=VGAX_HEIGHT; y++) {
   for (int x=0; x!=VGAX_BWIDTH; x++) {
     if (x==0 || x==VGAX BWIDTH-1)
        vga.putpixel(x, y, 3);
     else if (y==0 || y==VGAX_HEIGHT-1)
        vga.putpixel4(x, y, 0xf5);
      else
        vga.putpixel4(x, y, i%2 ? 25 : 150);
```

