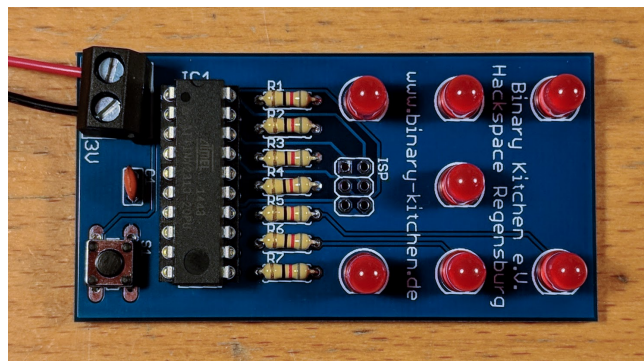




Dice MC (DIP)



Quantity	Name	Description	Label/Color Code
1	C1	Ceramic Capacitor 100 nF	104
1	IC1	Micro Controller Atmel ATtiny 2313A	
7	LED1-LED7	LED 5 mm	
7	R1-R7	Resistor 82 Ω	GR RE BK GO
1	S1	Push Button	
1	X1	Terminal 2-polig	
1	IC-Socket 20-polig		
1	Battery Holder		
2	Battery Mignon (AA)		
1	PCB		

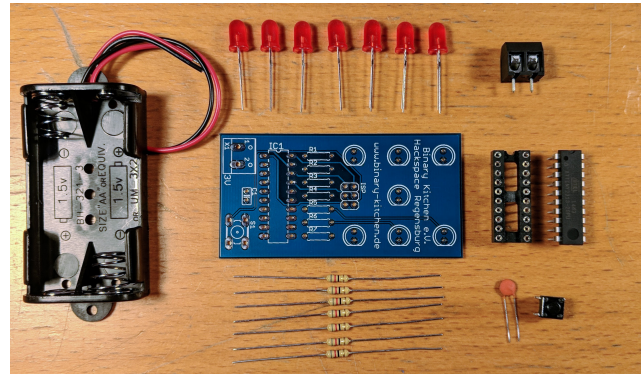
Difficulty: ●●○○○ Build Time: 1-2 hours

Manual v1.0a  CC BY-SA 4.0 Binary Kitchen e.V.
PCB v1.0  CC BY-SA 4.0 Binary Kitchen e.V.

Farblegende: SI = silber; GO = gold; BK = schwarz; BR = braun; RE = rot; OR = orange; YE = gelb; GR = grün; BL = blau; VI = violett; GR = grau; WH = weiß

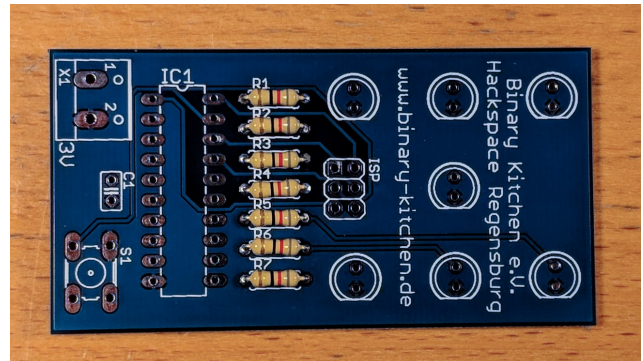
Schritt 1

- a) Hints:
- b) Resistor size can be determined by color coding
- c) Alignment of the board so, that LED designation can be read normally (see picture)
- d) Alignment for resistors does not matter
- e) LEDs have a flat side and a shorter leg. Both indicate the negative side



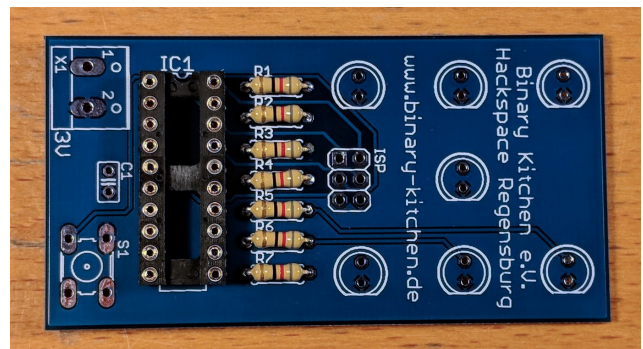
Schritt 2

- a) Solder resistors R1 to R7 (82 Ω) GR RE BK GO
- b) orientation does not matter



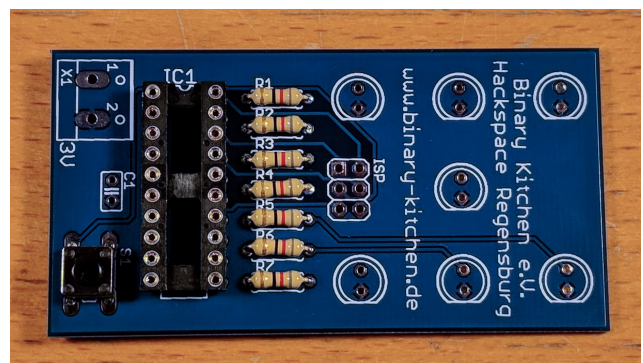
Schritt 3

- a) Solder IC1 socket with the nose to the left on the board



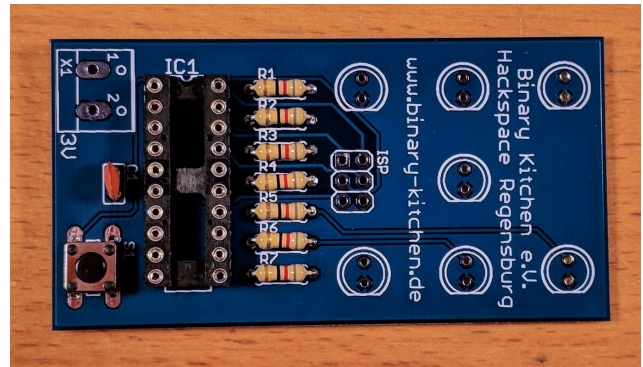
Schritt 4

- a) Solder button S1
- b) Hint: Legs have different distances. Nothing has to be bent. Switch fits exactly



Schritt 5

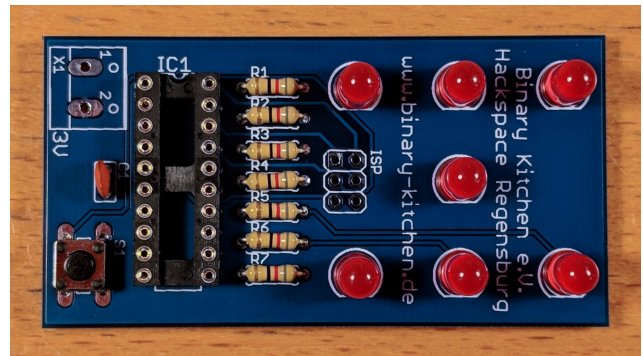
- a) Solder capacitor C1 (104)
- b) orientation does not matter



Schritt 6

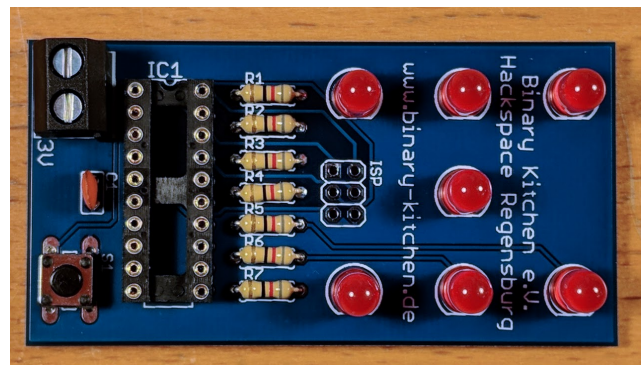
- a) Solder LED1 to LED7
- b) Attention! Alignment is important. LEDs have a flat side and a shorter leg. Both indicate the negative side
- c) On the board

the negative side is represented by a flat



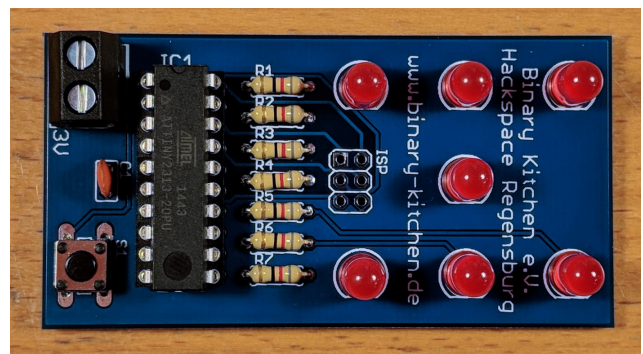
Schritt 7

- a) Power connector X1 with opening downwards



Schritt 8

- a) Insert IC1 with the nose to the left into the socket
- b) Hint: The legs of the IC must be slightly bent, to fit into the socket
- c) Possibly remove and tin the insulation at the tips of the connecting cables of the battery
- d) Screw on the battery (+ red, - black)
- e) Insert the batteries
- f) Done!





Binary Kitchen e.V.
Hackspace Regensburg



www.binary-kitchen.de

