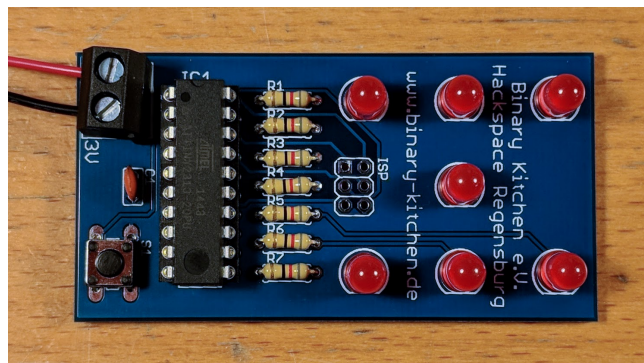


Dice MC (DIP)



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 v2.0  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

Safety Information

- ATTENTION: Not suitable for children under 3 years, choking hazard due to small parts that may be swallowed.
- We recommend: Supervision of the assembly and soldering process by an adult.
- Keep these operating instructions in a safe place for later use! It contains important information.
- If the battery is empty, replace it only with a new battery with the same values.
- When soldering, the soldering iron, the solder and also the components being soldered become very hot.
- Always wear safety glasses when soldering and assembling the kit.
- Always use a fire proof soldering pad when soldering! This prevents the components from slipping away.
- To keep the soldering iron safe during assembly, always use a suitable soldering stand.
- The kit is designed for battery operation only.
- CAUTION: Never connect the kit to 230 V mains voltage! There is an absolute danger to life!
- Please take the device to appropriately certified disposal companies at the end of its service life. This is good for the environment and ensures correct disposal.
- Subject to changes and errors.

Disposal

This appliance is labelled in accordance with the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). The directive provides the legal framework for the take-back and recycling of waste equipment throughout the EU.

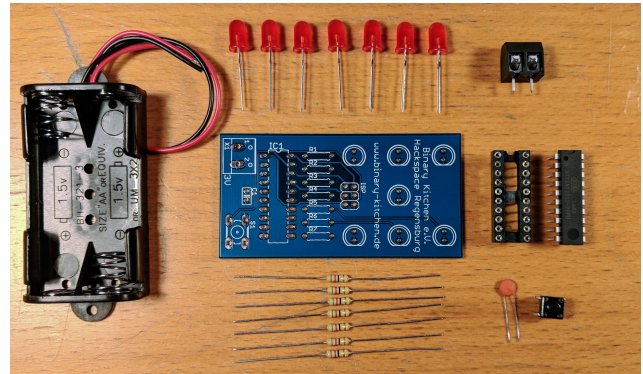
- **packaging:** The packaging is made of environmentally friendly materials and is therefore recyclable. Dispose of packaging materials that are no longer needed accordingly.
- **waste equipment:** Old appliances often still contain valuable materials. Therefore, hand in your old appliance to your retailer or a recycling centre for reuse. Please ask your retailer or your local authority for the current disposal routes.

blinkyparts.com
Egerstr. 9
93057 Regensburg
GERMANY



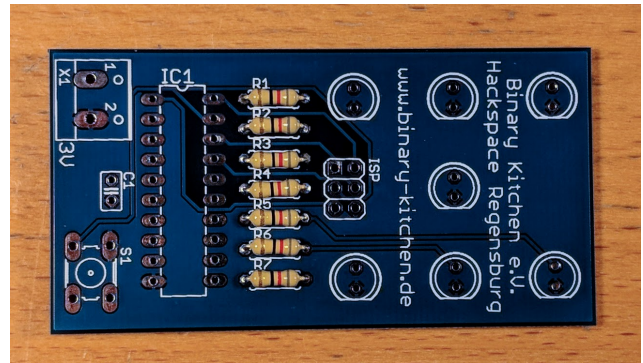
Schritt 1

- 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



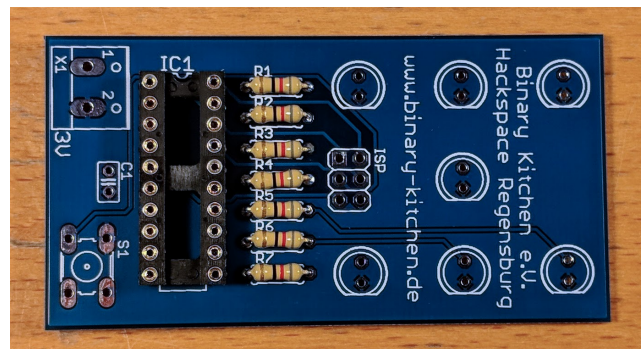
Schritt 2

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



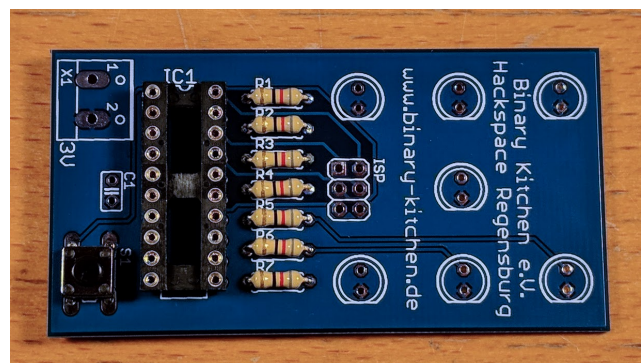
Schritt 3

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



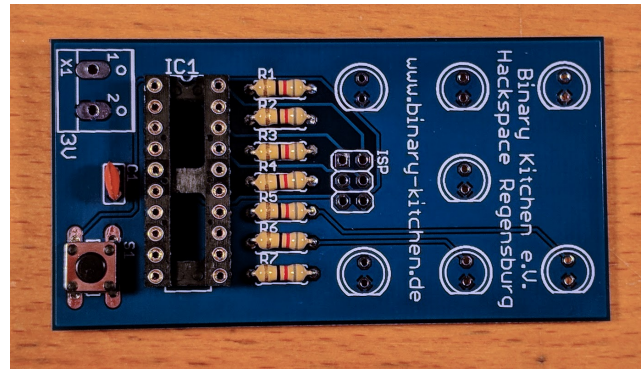
Schritt 4

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



Schritt 5

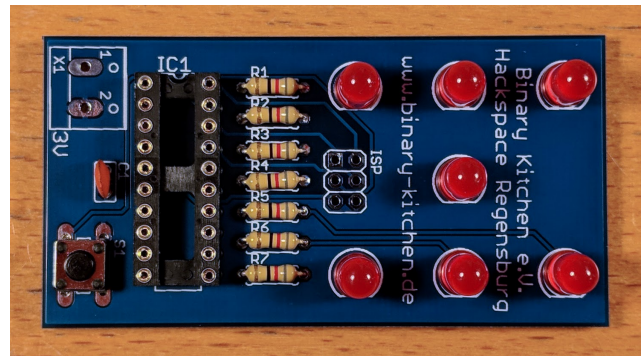
- Solder capacitor C1 (104)
- orientation does not matter



Schritt 6

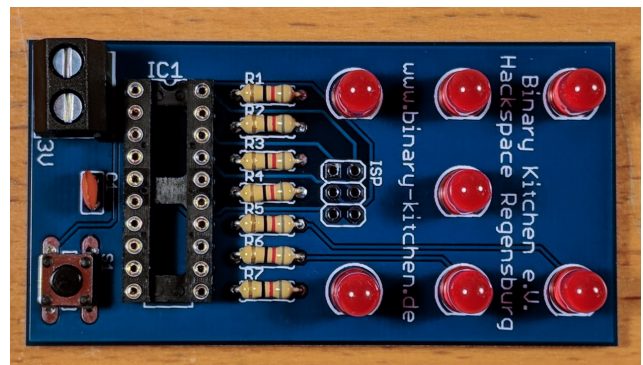
- Solder LED1 to LED7
- Attention! Alignment is important. LEDs have a flat side and a shorter leg. Both indicate the negative side
- On the board

the negative side is represented by a flat



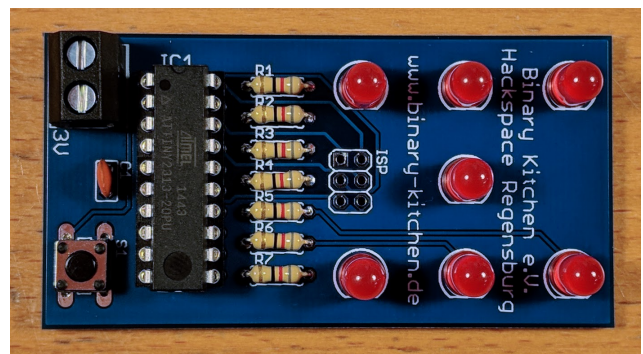
Schritt 7

- Power connector X1 with opening downwards



Schritt 8

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





Binary Kitchen e.V.
 Hackspace Regensburg



www.binary-kitchen.de

