

Katie the Cat!



Quantity	Name	Description	Colour Code
1	D1	Blue LED 5 mm	
1	D2	Green LED 5 mm	
1	R1	Resistor 750 Ω	VI GR BK BK BR
1	R2	Resistor 47 Ω	YE VI BK GO BR
1	S1	Push Button	
1	BT1	CR2032 Battery Holder	
1	CR2032 Battery (not included)		
1	Board (PCB)		

Difficulty: ●●○○○ Build-Time: 30 – 60 Minutes

Manual v2.0 CC BY-SA 4.0 Binary Kitchen e.V.
Board v1.0 CC BY-SA 4.0 Franziska Breunig

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.

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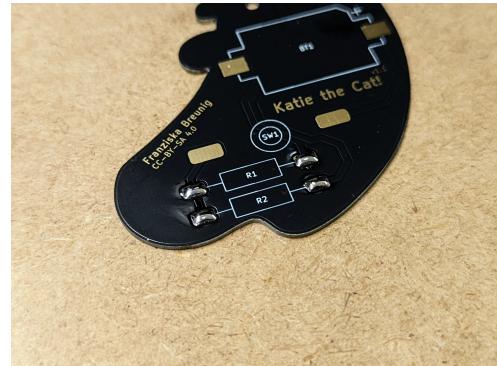
Step 1

- a) Check your parts.
- b) A CR2032 battery is not included. You can get them online or at bigger electronic stores.



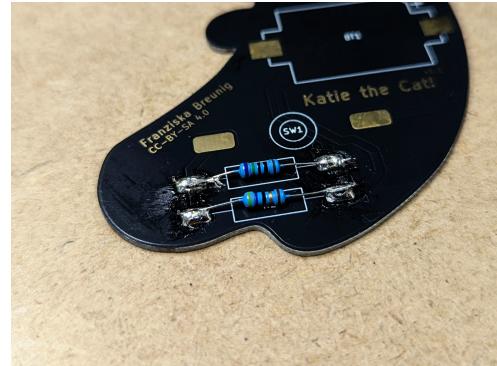
Step 2

- a) Turn the board on its backside.
- b) On the board you will find R1 and R2.
- c) There you have to solder the resistors (blue sticks with coloured squiggles).
- d) Add solder to all four golden pads that are connected with a line and R1 or R2.
- e) For this you have to heat the golden pads with the soldering iron and melt solder on them.



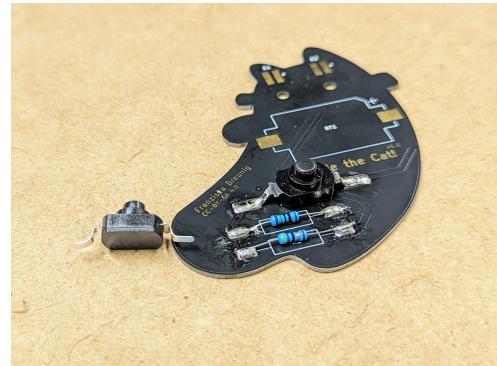
Step 3

- a) The coloured squiggles on the resistors show the value of the resistor. One resistor has no direction.
- b) The resistor **VI GR BK BK BR** ($750\ \Omega$) goes on R1.
- c) The resistor **YE VI BK GO BR** ($47\ \Omega$) goes on R2.
- d) To do this, reheat the solder on one of the pads and then push the wire of the right resistor into the hot solder.
- e) Do this with all four pads and the respective resistors.
- f) Cut off the overhanging wire pieces.



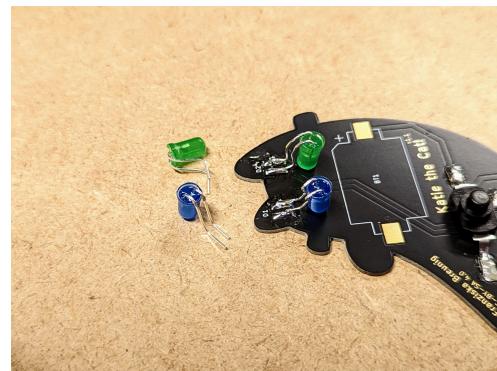
Step 4

- a) The button has no direction.
- b) Add solder to both pads on the left and right of the button (SW1).
- c) Bend the legs of the button so, that the legs can touch the surface of the board, when the button is on the board. (See example below left).
- d) Reheat the pad with solder and slide one leg of the button from the side onto the pad.
- e) Make sure that the other leg of the button touches the other pad.
- f) Now solder the second side of the button.



Step 5

- a) LEDs have a positive (+) and negative (-) leg. The long leg of the LED is the positive leg.
- b) the blue LED goes on D1. The green LED goes on D2.
- c) Add solder to the pads of D1 and D2.
- d) Bend the legs so, that the tip of the head of the LED points to the hole in the board. The long leg should be able to touch the + pad (see the picture above for an example).
- e) Solder the positive leg (the long one) to the positive pad, on which you have already applied solder.
- f) Make sure, that the second leg also touches the other pad (-).
- g) Now solder all pads.



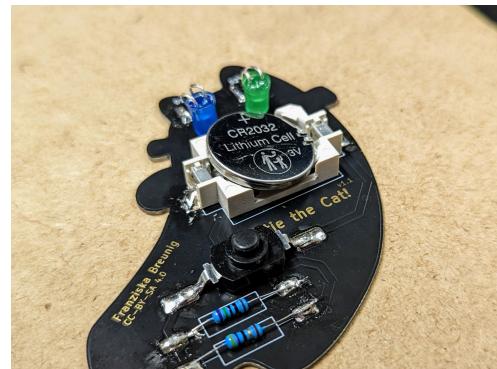
Step 6

- a) The battery holder has a direction, which is marked with a sloped edge on the outside. The same sloped edge is also printed on the PCB.
- b) Solder the battery holder so that the sloped edges are on the same side.
- c) Put solder on one pad of the battery holder.
- d) Reheat the pad with solder and slide the battery holder from the side onto the pad.
- e) Make sure that the other leg of the battery holder can touch the other pad.
- f) Solder the other leg onto the other pad on the PCB.



Step 7

- a) Insert the battery as shown.
- b) The leg, which is facing upwards, must touch the top (+) of the battery. Push the battery into the battery holder from the left and press only the left side down.



Step 8

- a) You are done!
- b) You can add a magnet to the battery, to better attach Katie to your clothes.

