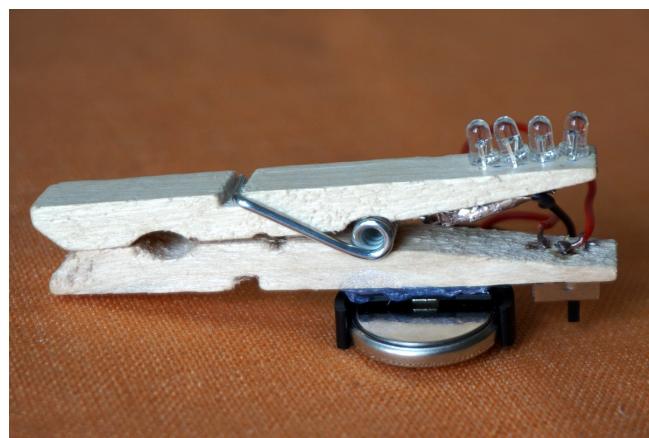


Nibble Peg with on/off-switch



Quantity	Name	Description	Signing/Colorcode
4	3mm RGB flashing LED		
1	Wooden peg		
1	CR2032 3 V Battery		
3	Wire (as long as the peg)		
1	Slide switch (3 pins)		

Difficulty: ●●○○○

Manual v1.1 CC-BY-SA 4.0 Binary Kitchen e.V. and Hannes Restel and Christopher König
TeX v1.0 The L^AT_EX-Project Public License, Author: Marei Peischl - peitex.de
Idea v1.1 CC-BY-SA 4.0 Timo Schindler and on/off-switch extension by Hannes Restel and Christopher König

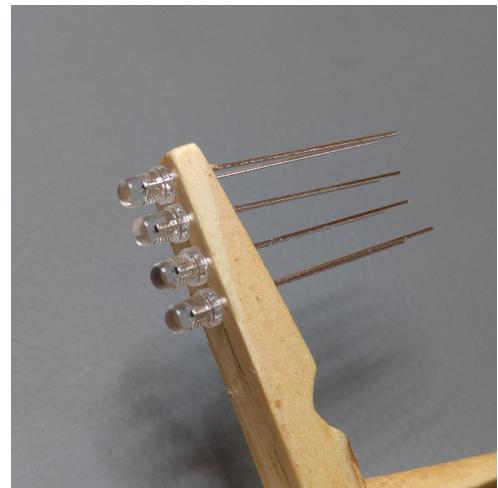
Step 1

- a) Disassemble the peg
- b) Watch your hair! The drill eats it very fast!
- c) Drill 8 holes in one half of the peg
- d) Drill 3 holes in the second half of the peg for the slide switch



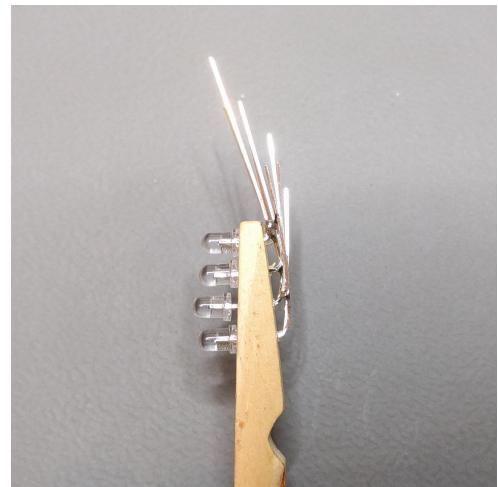
Step 2

- a) LEDs do have a direction (longer leg = pluspole and red wire, shorter leg = minuspole and black wire)
- b) Put the LEDs into the holes so that all long legs are on the same side



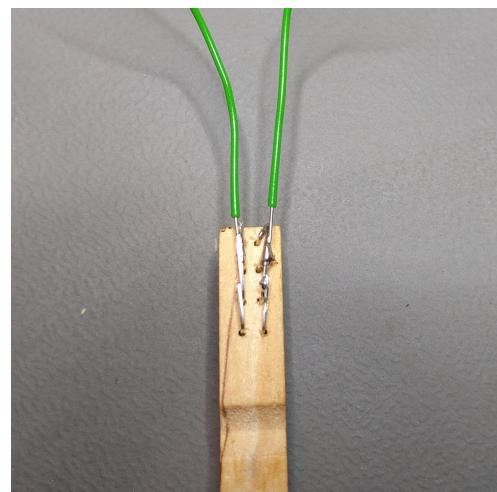
Step 3

- a) Bend all legs of the LEDs so that all long legs are layered and touch each other. Do the same for the short legs. Long and short legs must not touch each other!
- b) Solder all long legs together
- c) Solder all short legs together



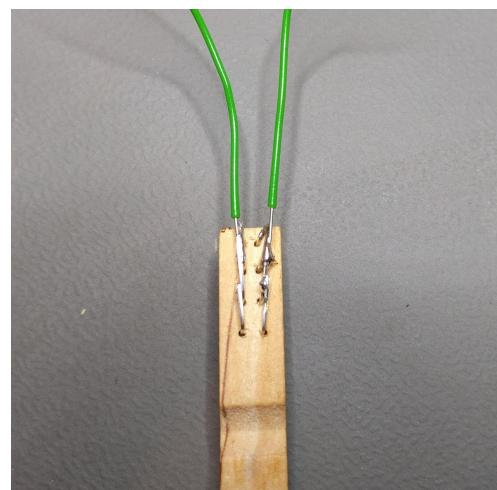
Step 4

- a) Prepare 2 red wires and 1 black wire: Remove about 10 mm insulation of both sides of the wires



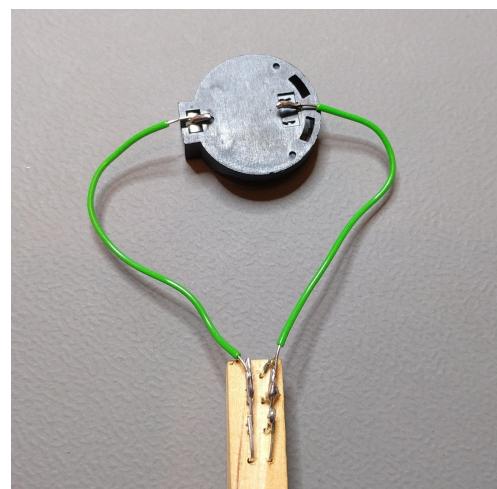
Step 5

- a) Solder a red wire to the plus-legs
b) Solder a black wire to the minus-legs
c) Clip protruding parts of the legs



Step 6

- a) For testing purposes only: No soldering in this step!
b) Insert a battery into the battery holder
c) Hold the wires to the battery holder and check if the LEDs blink
d) Remove the battery



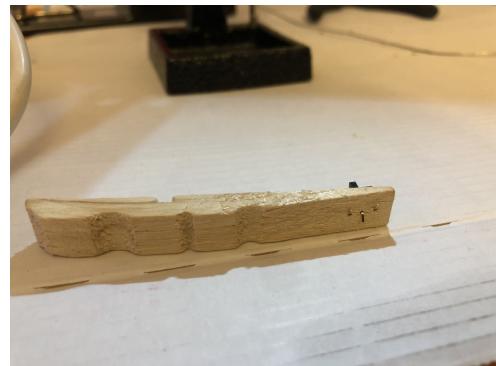
Step 7

- a) Insert slide switch into holes of second peg half...



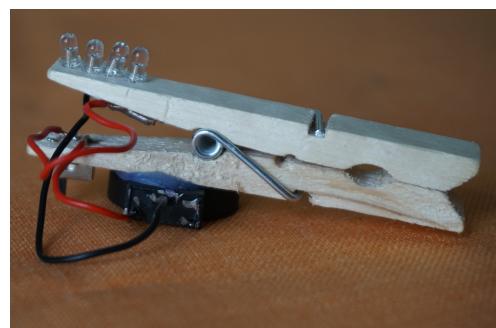
Step 8

- a) ...and fold over legs to fixate the switch



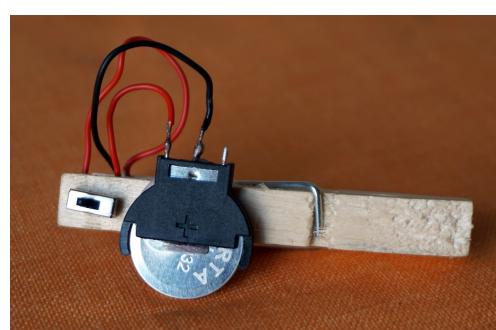
Step 9

- a) Solder loose end of red LED wire to middle leg of slide switch
b) Solder second red wire to an outer leg of slide switch and to the pluspole of battery holder



Step 10

- a) Solder loose end of black LED wire to minuspole of battery holder



Step 11

- a) Reassemble the peg
b) Glue the battery holder to the peg and end put back in the battery

