The First Soldering

solder
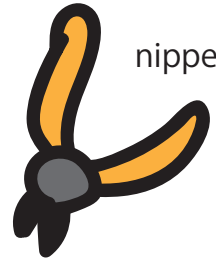
soldering iron
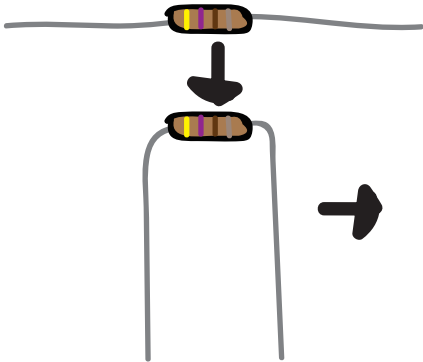
Hot! about 300 degree same as an iron plate for roast
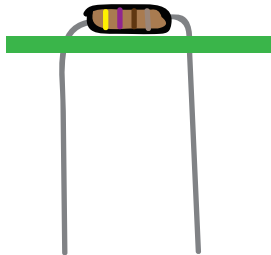
nipper

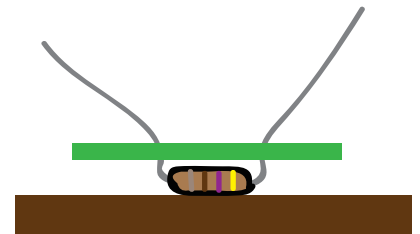1. find the part (first of all is R1 resister has line colors: yellow, purple, brown, gold)
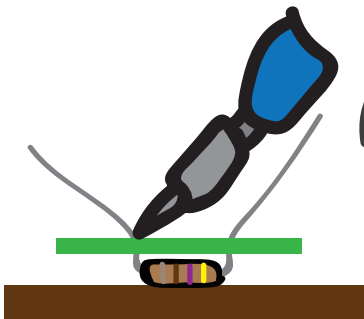
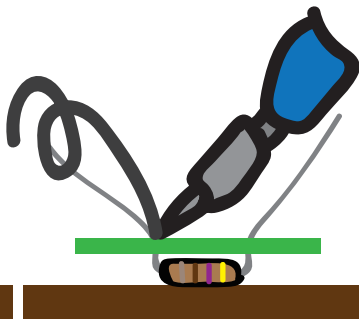2. bend by fingers

3. put into the board
★ direction is important!

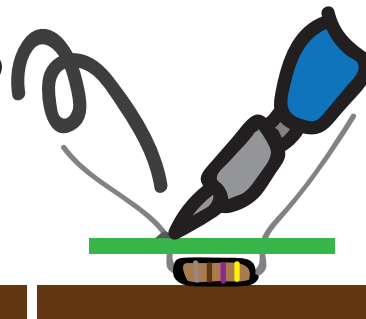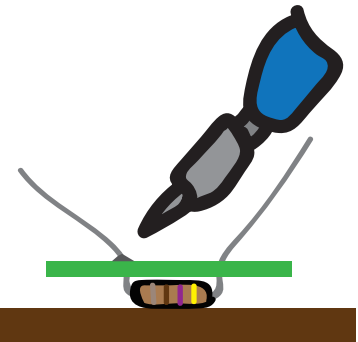4. bend a little to fix and flip the board

1. warm both the board and the wire by the iron (about 5 seconds)
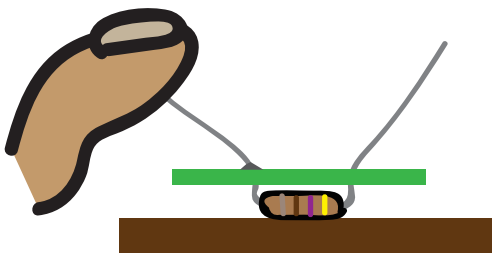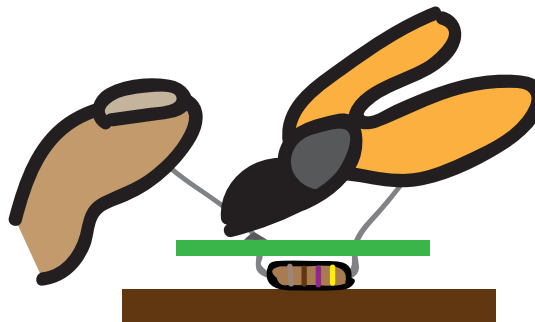
2. melt the solder if you can't, back to 1
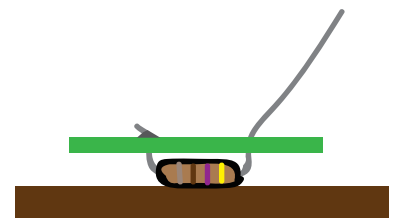
3. leave the solder

4. leave the iron triangle shape is the best! if not enough, back to 1

1. attach the wire by the finger (danger to jump the wire)

2. cut the wire by the nipper (a little above the triangle)

completed!! go a head!

http://ichigojam.net/

IchigoJam half kit

10. JC1 video terminal
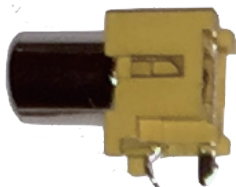
IchigoJam PCB (board)
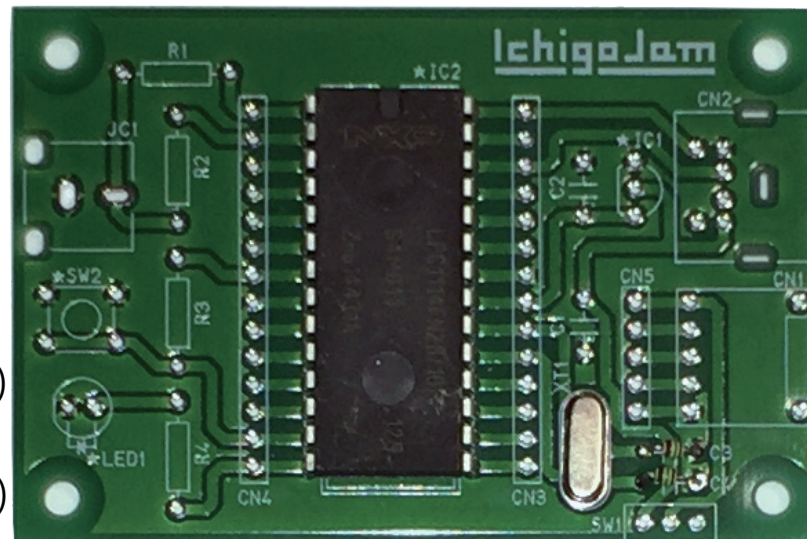
1. R1-R4 resistor

R1: yellow purple brow bold (470Ω)

R2: brown black brown gold (100Ω)

R3: brown black green gold (1MΩ)

R4: orange orange brown gold (330Ω)

4. capacitor C1/C2

9. CN2 PS/2 terminal (for the keyboard)
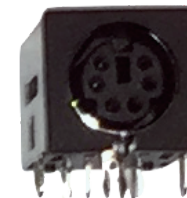
2. CN1 microUSB
(for the power source)

5. ★LED right: the long wire

7. ★IC1 right: rounded regulator

3. ★SW1 right power switch

6. SW2 tact switch (button)
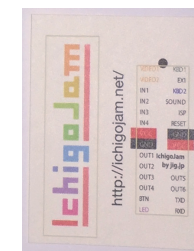
11. ★IC2 up: black circle seal the CPU

12. sounder
cut by nipper put in to GND and SOUND pins

8. pin socket to the straight!

IchigoJam first step

Light up the LED

`LED1`   Type in "LED1" and push Enter key

Light off the LED

`LED0`   Don't forget Enter key

Order your computer to wait for a while

`WAIT120`

"WAIT120" means "wait 2sec" Q:"WAIT60" means?

`WAIT60`

Light up the LED 1sec (`:` to join commands)

`LED1:WAIT60:LED0`

Push UP key twice.
Push RIGHT key 12 times.
Push Backspace key to delete "6".
Type "12". Push Enter key to modify your order.

`LED1:WAIT120:LED0`

Blink the LED
 (Push Space key to input space)
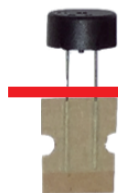
`10 LED1:WAIT60`
`20 LED0:WAIT60`
`30 GOTO10`

Type in "RUN"+Enter to start your program

`RUN`   F5 key works the same way

ESC key stops the program

"LIST"+Enter displays your program list

`LIST`   F4 key works the same way

Can you blink the LED more fast?
Enter key to tell computer your modification

You can save up to four programs (0 to 3)

`SAVE0` F3 key types in "SAVE"

After reboot your computer,
you can reload that program.

`LOAD0` F2 key types in "LOAD"

Type in "NEW" to erase your program.

`NEW`

IchigoJam mini games

How fast? (Push the IchigoJam button after LED)

```
10  LED 0
20  WAIT RND(180)+60
30  LED 1:CLT
40  IF BTN()=0 GOTO 40
50  ?TICK()
```

Typing! (Type in A to Z)

```
10  LET N,65:CLT
20  ?CHR$(N);
30  IF INKEY()<>N GOTO 30
40  LET N,N+1:IF N<>91 GOTO 20
50  ?:?TICK()/60
```

Calc! (Calculate the sum fast)

```
10  LET N,0:CLT
20  LET A,RND(10)
30  LET B,RND(10)
40  ?A;"+";B;"=";:INPUT C
50  IF C!=A+B ?"NG!":END
60  LET N,N+1:IF N<10 GOTO 20
70  ?TICK()/60
```

Downstream (RIGHT and LEFT key to avoid)

```
10  LET X,16:CLS:CLT
20  LET K,INKEY()
30  IF K=RIGHT LET X,X+1
40  IF K=LEFT LET X,X-1
50  IF SCR(X,5) ?TICK()/60:END
60  LC X,5:?"O"
70  LC RND(32),23:?"*"
80  WAIT 3
90  GOTO 20
```

Baseball! (Push the IchigoJam button to hit)

```
10  LET Y,0
20  CLS
30  LC 4,15:?"%"
40  LC 5,Y:?"O"
50  IF BTN() GOTO 90
60  LET Y,Y+1
70  WAIT 6
80  GOTO 20
90  IF Y=15 ?"HIT!"
```

Screen jack! (Type in any key)

```
10  LET C,1:CLS
20  LC RND(32),RND(22)
30  ?CHR$(C)
40  LET K,INKEY():IF K C=K
50  GOTO 20
```

Push Shift key to type in '(', ')' or '"'

shift + (/ 9 →

Programming in BASIC!

Kid's PC IchigoJam

http://ichigojam.net/