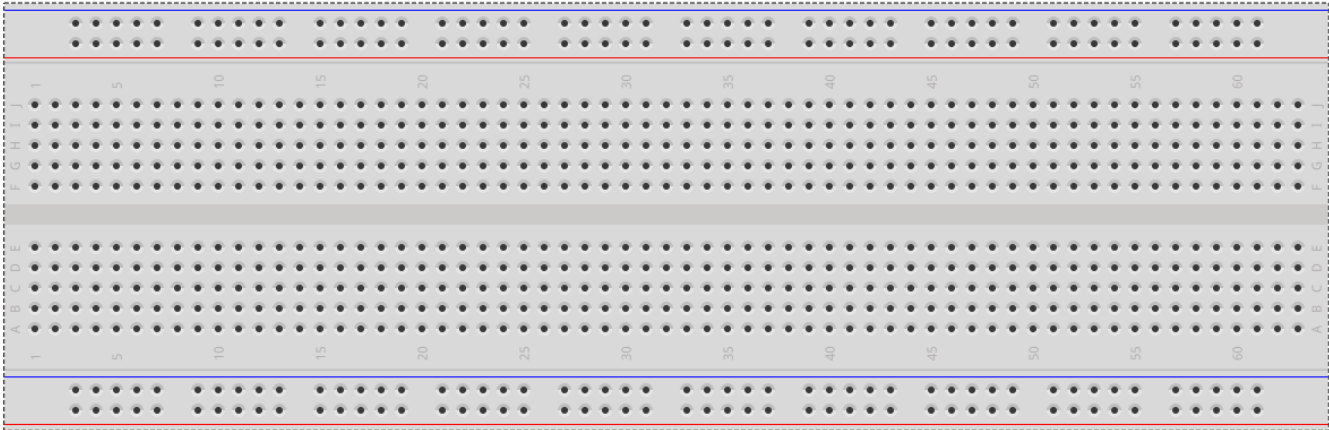


When you first open Fritzing, it will look like this. Since we're not yet using breadboards, just click on this and **delete** it.



Inspector

**Breadboard1**

v. 4

Breadboard1

**Placement**

location -0.252 -1.200 in

rotation 0.0 degrees

Locked

**Properties**

family breadboard

size full+

part #

fritzing



Add a note



Rotate



Flip

No connections to route

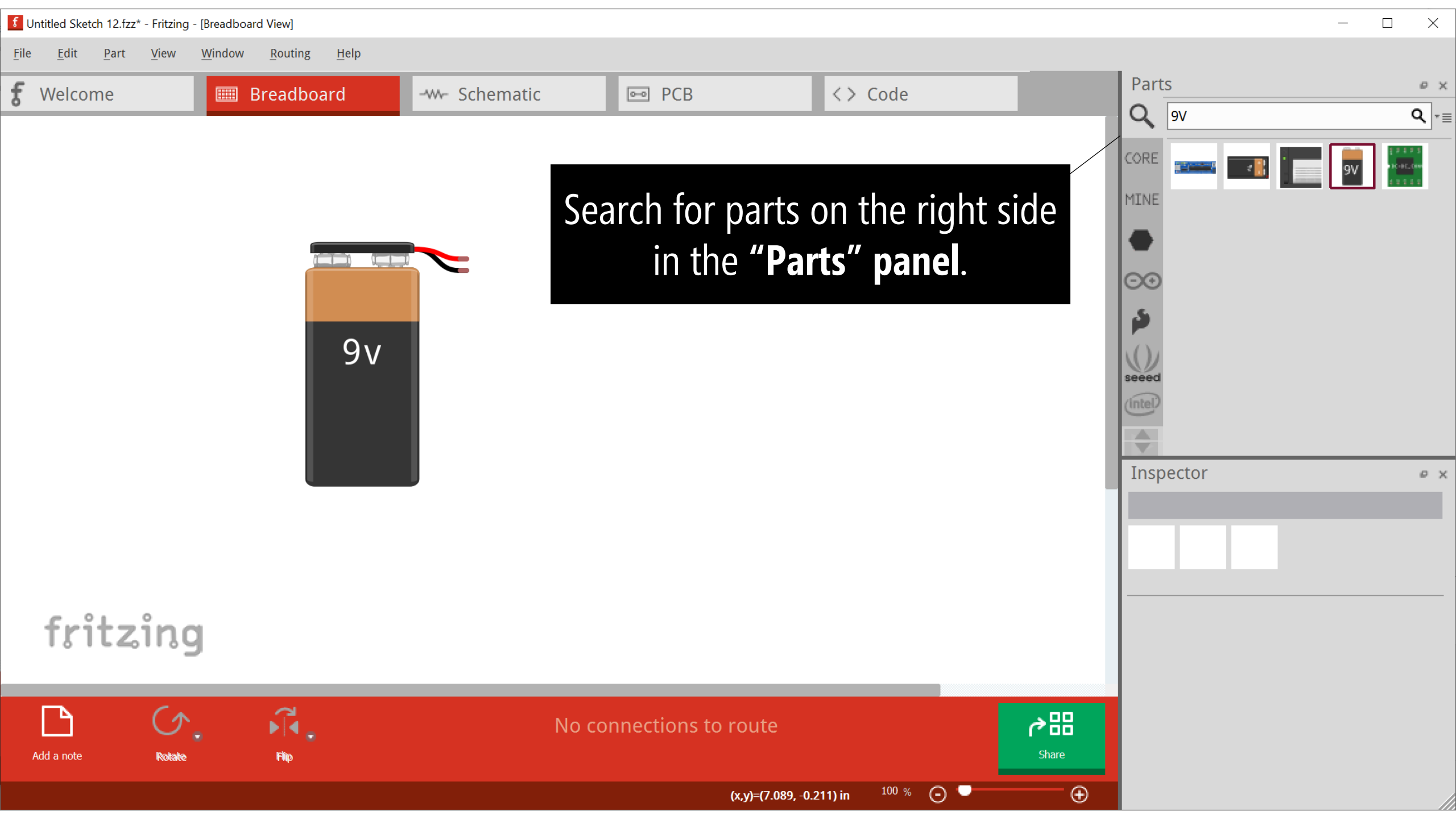


Share

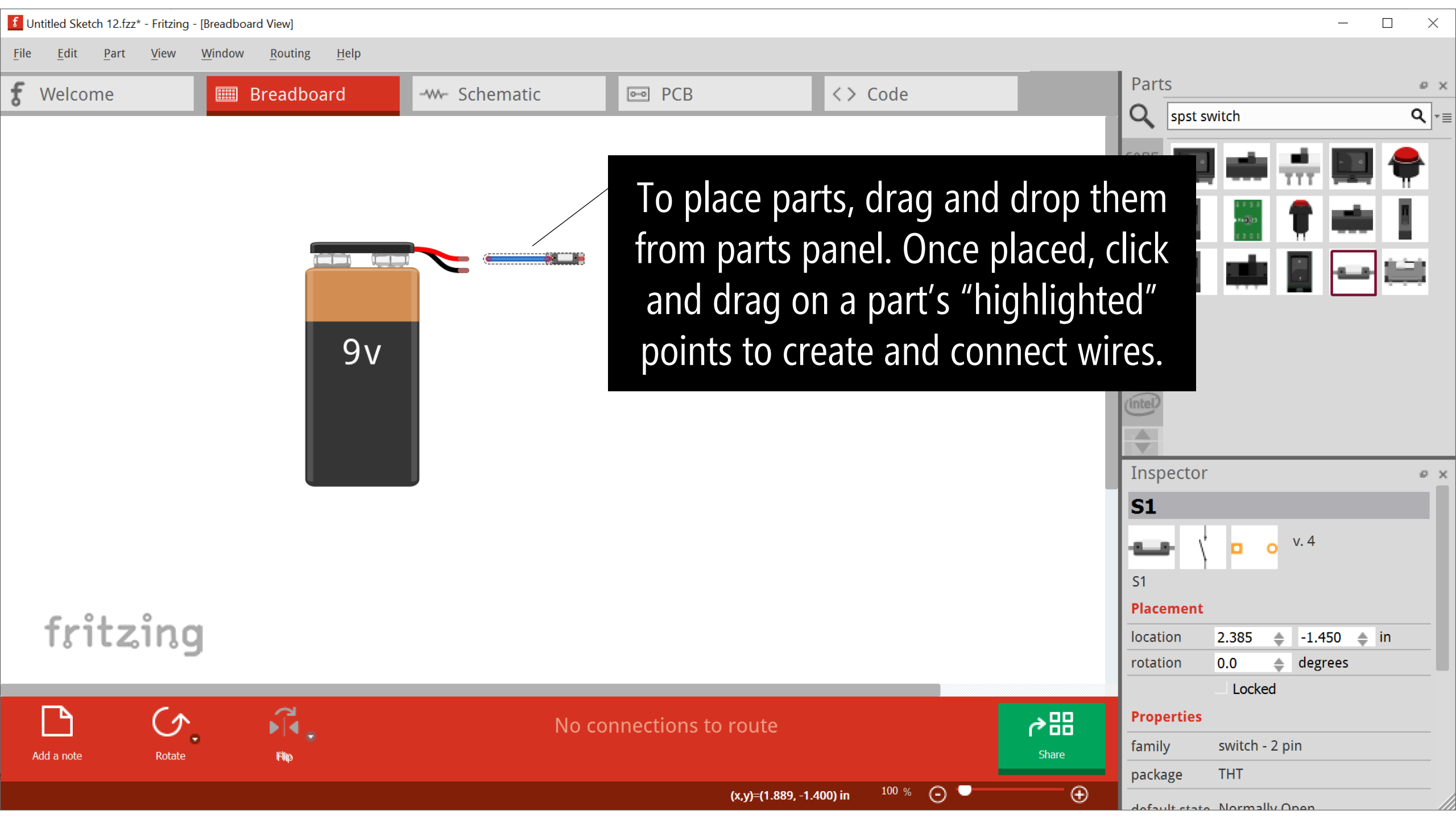
(x,y)=(1.633, -2.578) in

100 %

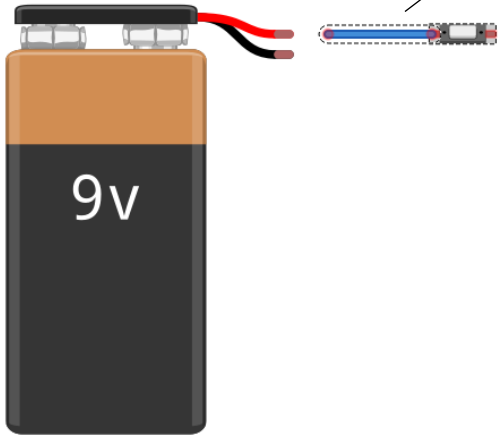




Search for parts on the right side  
in the **"Parts"** panel.

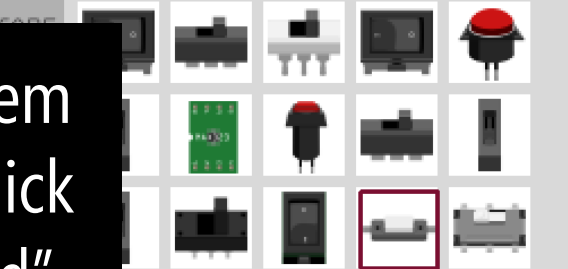


To place parts, drag and drop them from parts panel. Once placed, click and drag on a part's "highlighted" points to create and connect wires.






Parts

spst switch



Inspector

**S1**

   v. 4

S1

**Placement**

location 2.385 -1.450 in

rotation 0.0 degrees

Locked

**Properties**

family switch - 2 pin

package THT

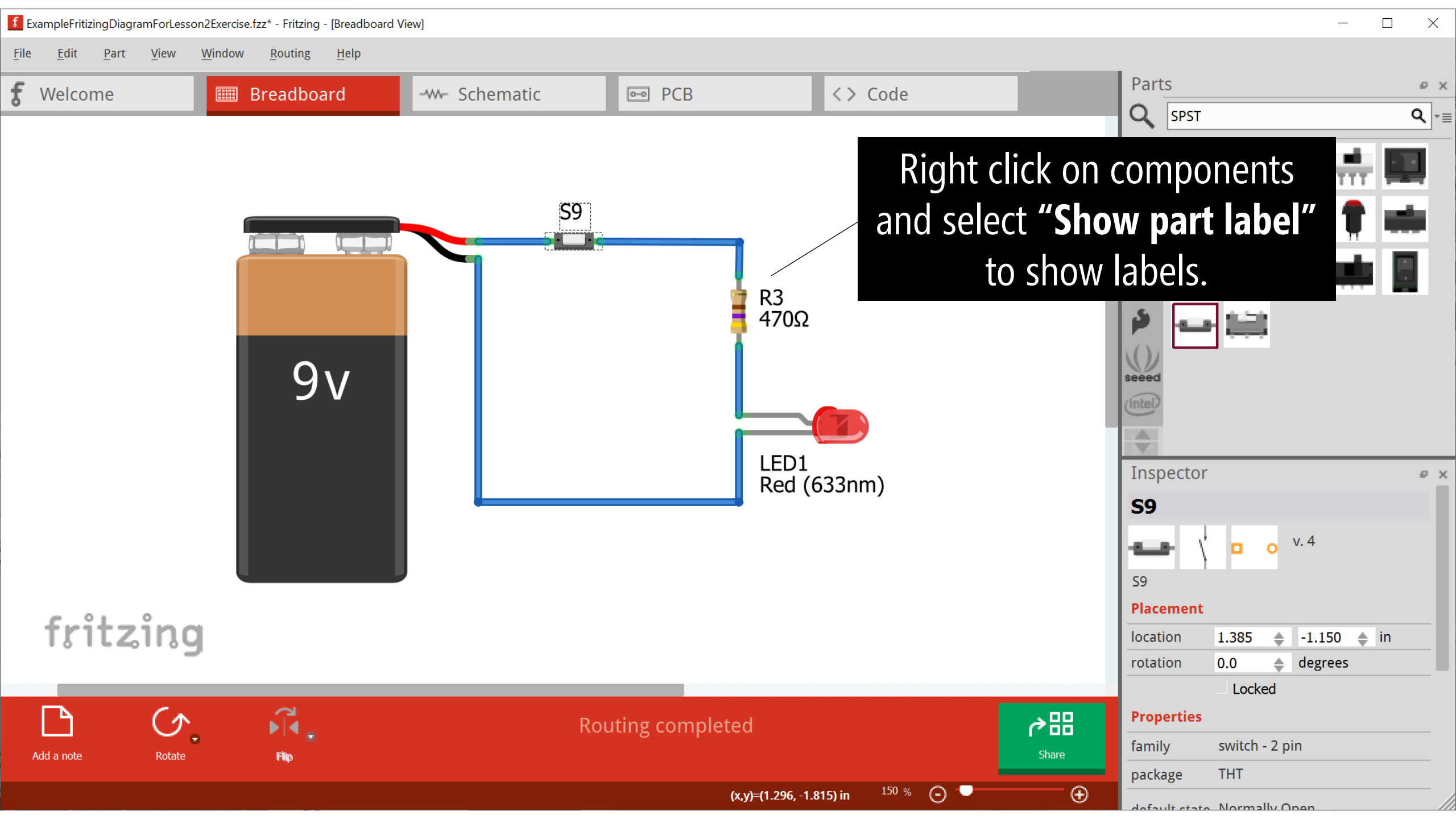
default state Normally Open

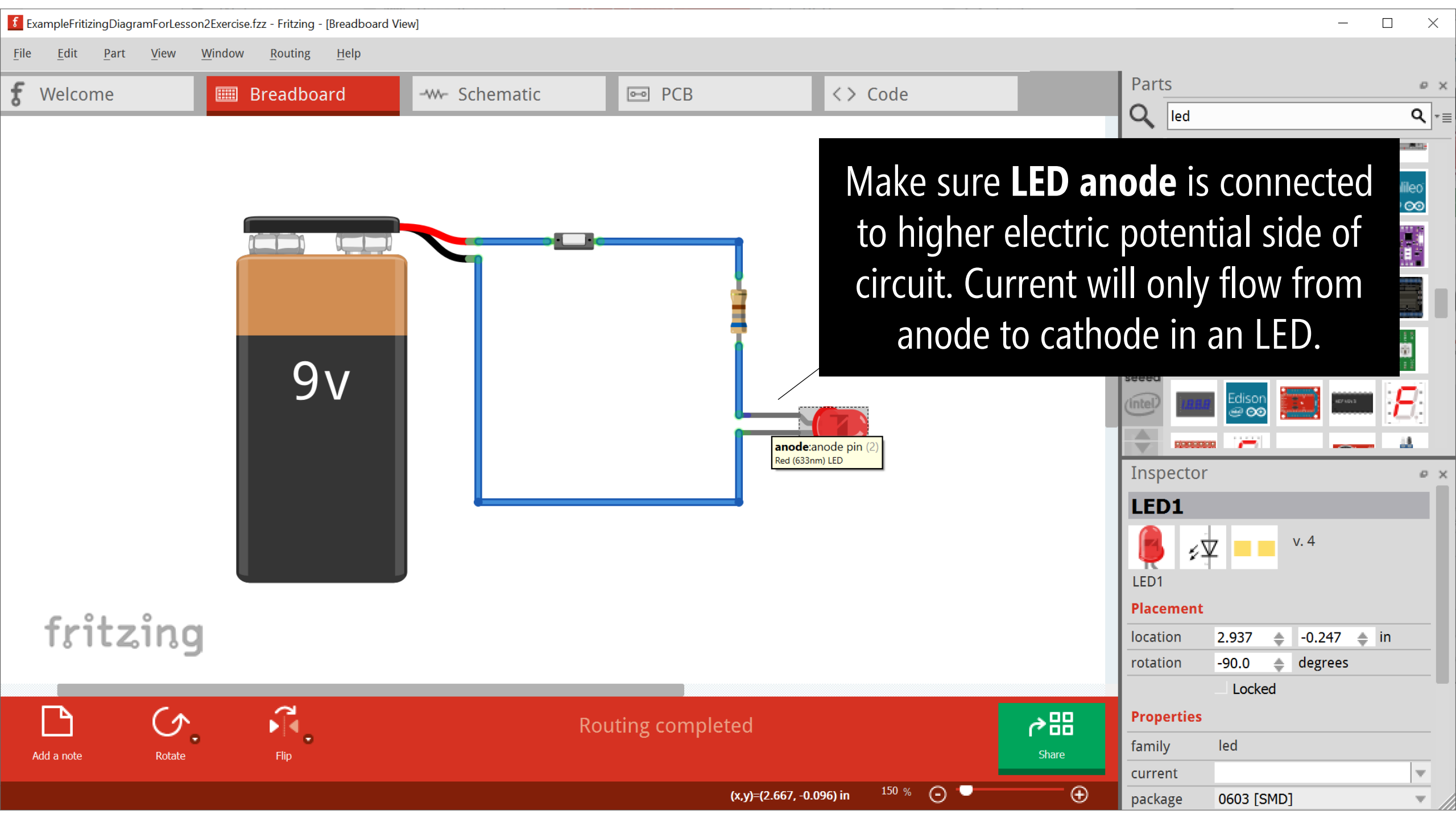
fritzing



No connections to route







Make sure **LED anode** is connected to higher electric potential side of circuit. Current will only flow from anode to cathode in an LED.

Inspector

**LED1**

LED1 v. 4

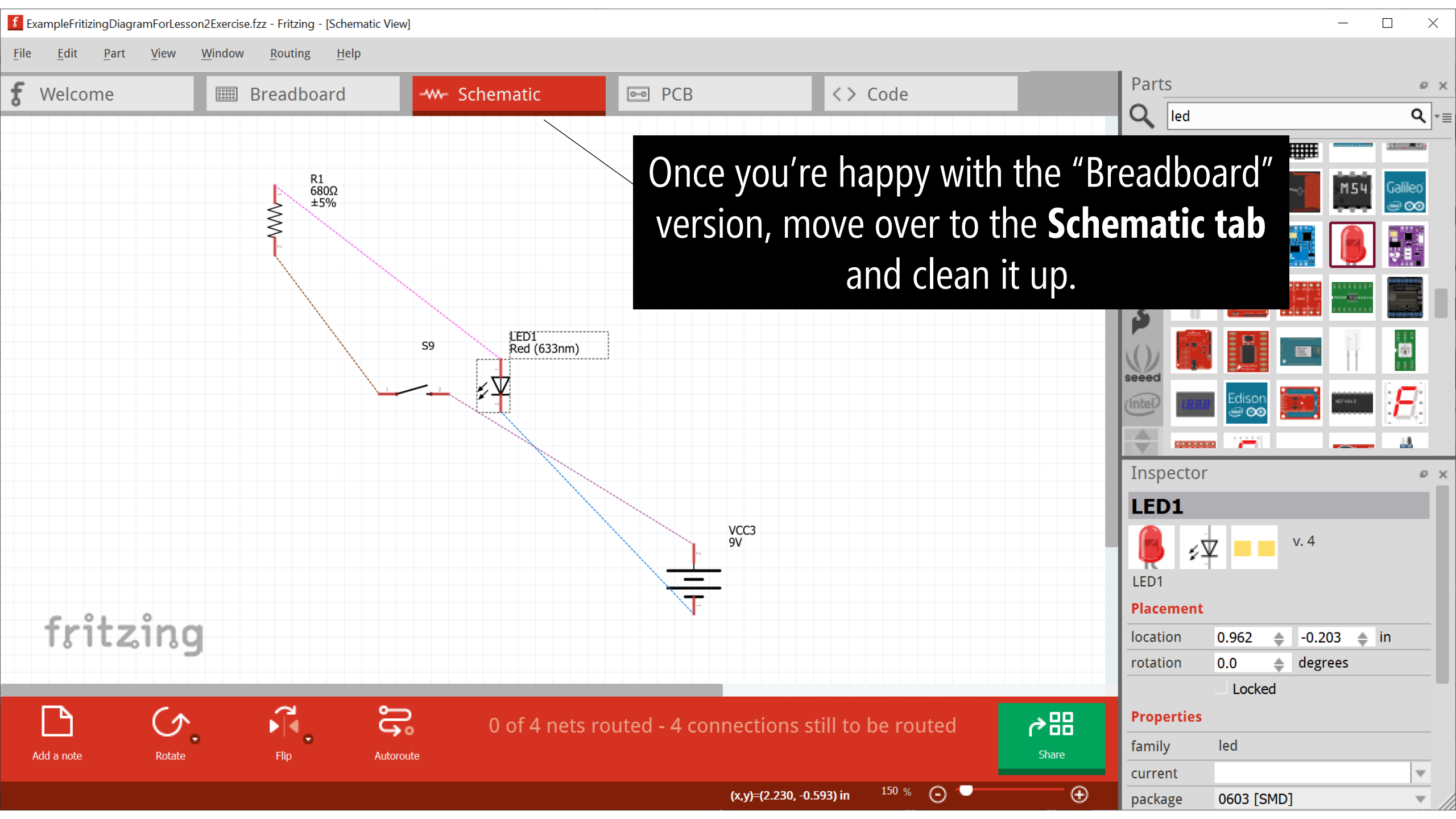
**Placement**

location	2.937	-0.247	in
rotation	-90.0	degrees	

☐ Locked

**Properties**

family	led
current	
package	0603 [SMD]



Once you're happy with the "Breadboard" version, move over to the **Schematic** tab and clean it up.

fritzing



0 of 4 nets routed - 4 connections still to be routed

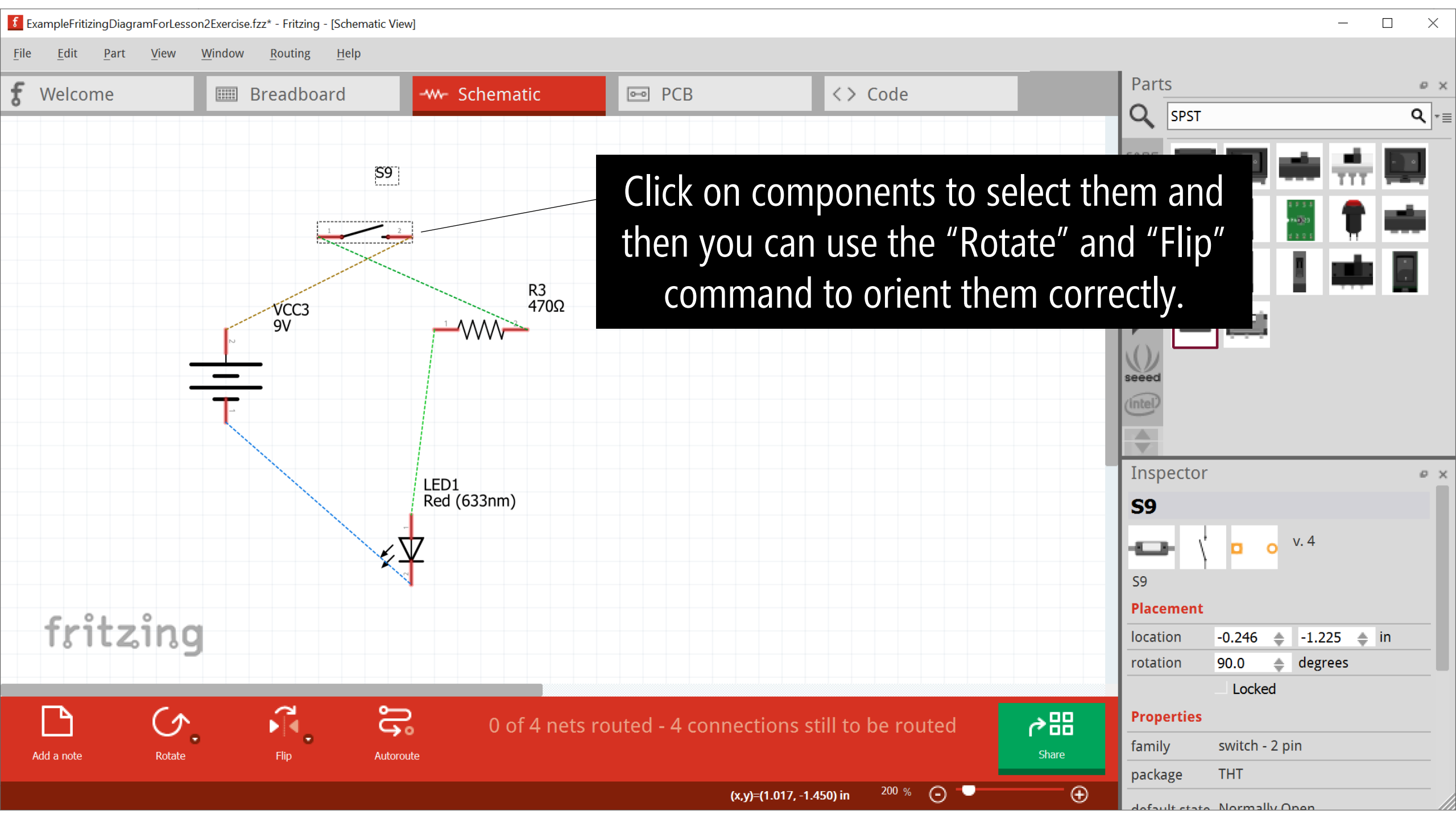


Share

(x,y)=(2.230, -0.593) in

150 %





Click on components to select them and then you can use the "Rotate" and "Flip" command to orient them correctly.

**Inspector**

**S9**

S9 v. 4

**Placement**

location -0.246 -1.225 in

rotation 90.0 degrees

☐ Locked

**Properties**

family switch - 2 pin

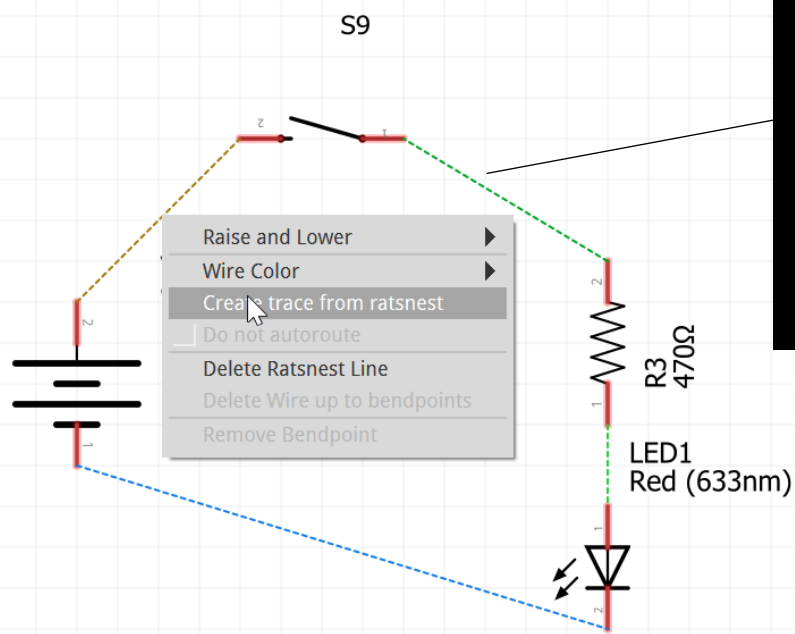
package THT

default state Normally Open

Add a note Rotate Flip Autoroute

0 of 4 nets routed - 4 connections still to be routed

Share





These dotted lines need to be converted to actual "wires" or "traces". Right click on them and select **"Create trace from ratsnest"**

fritzing



Inspector

**Wire235**

  v. 4

Ratsnest wire

**Properties**

family	wire
color	#a37911

**Tags**

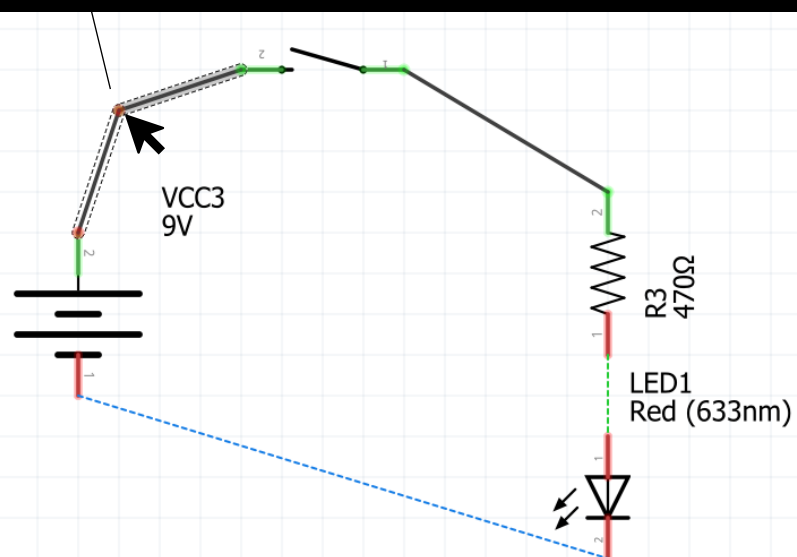
wire, fritzing core

**Connections**

conn.	
name	



You can click-and-drag in the middle of a wire to **create a bend point**.



fritzing



Add a note



Rotate



Flip



Autoroute

2 of 4 nets routed - 2 connections still to be routed



Share

Drag or double-click to add a bendpoint

(x,y)=(-0.683, -0.883) in

200 %



PCB

<> Code

Parts



SPST



CORE

MINE



Inspector

Wire250



v. 4

Trace wire

Properties

family wire

color black

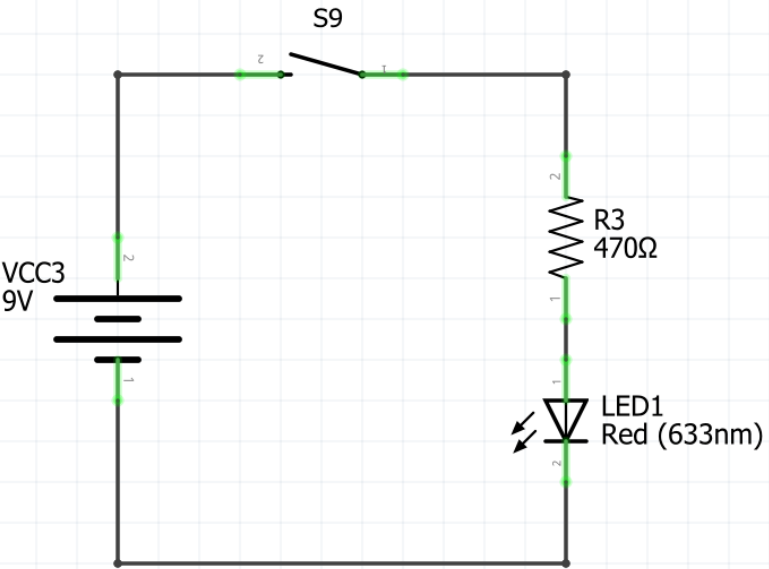
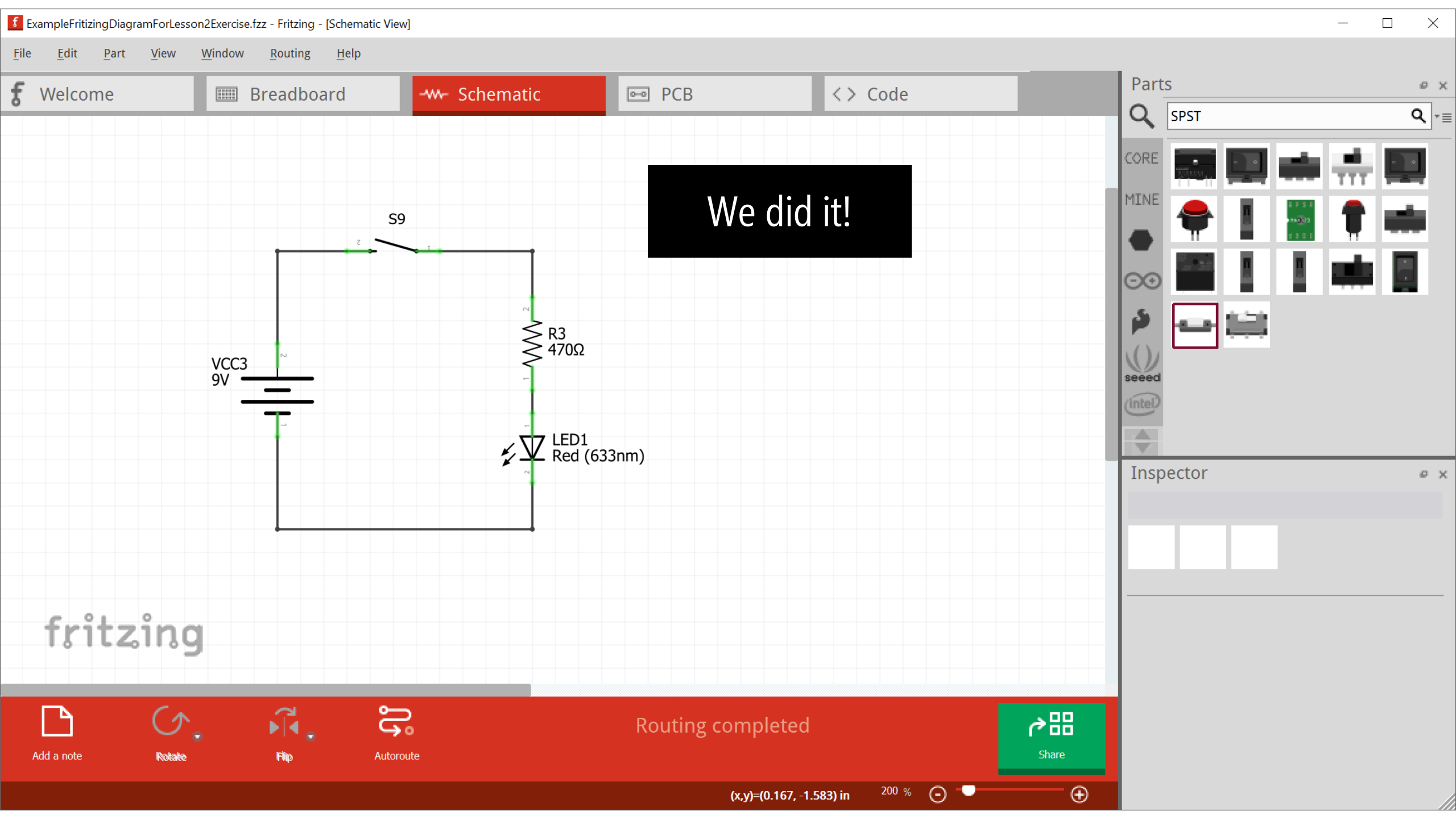
Tags

wire, fritzing core

Connections

conn.

name

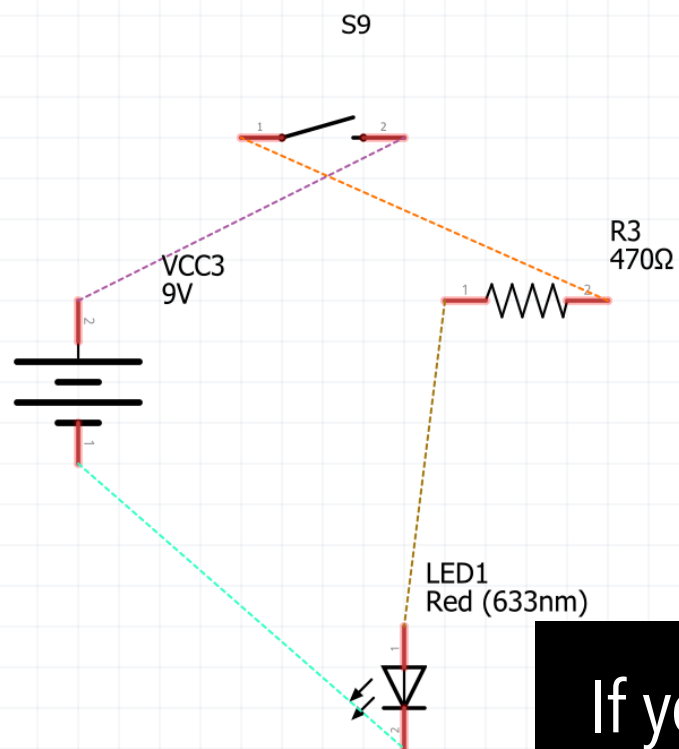
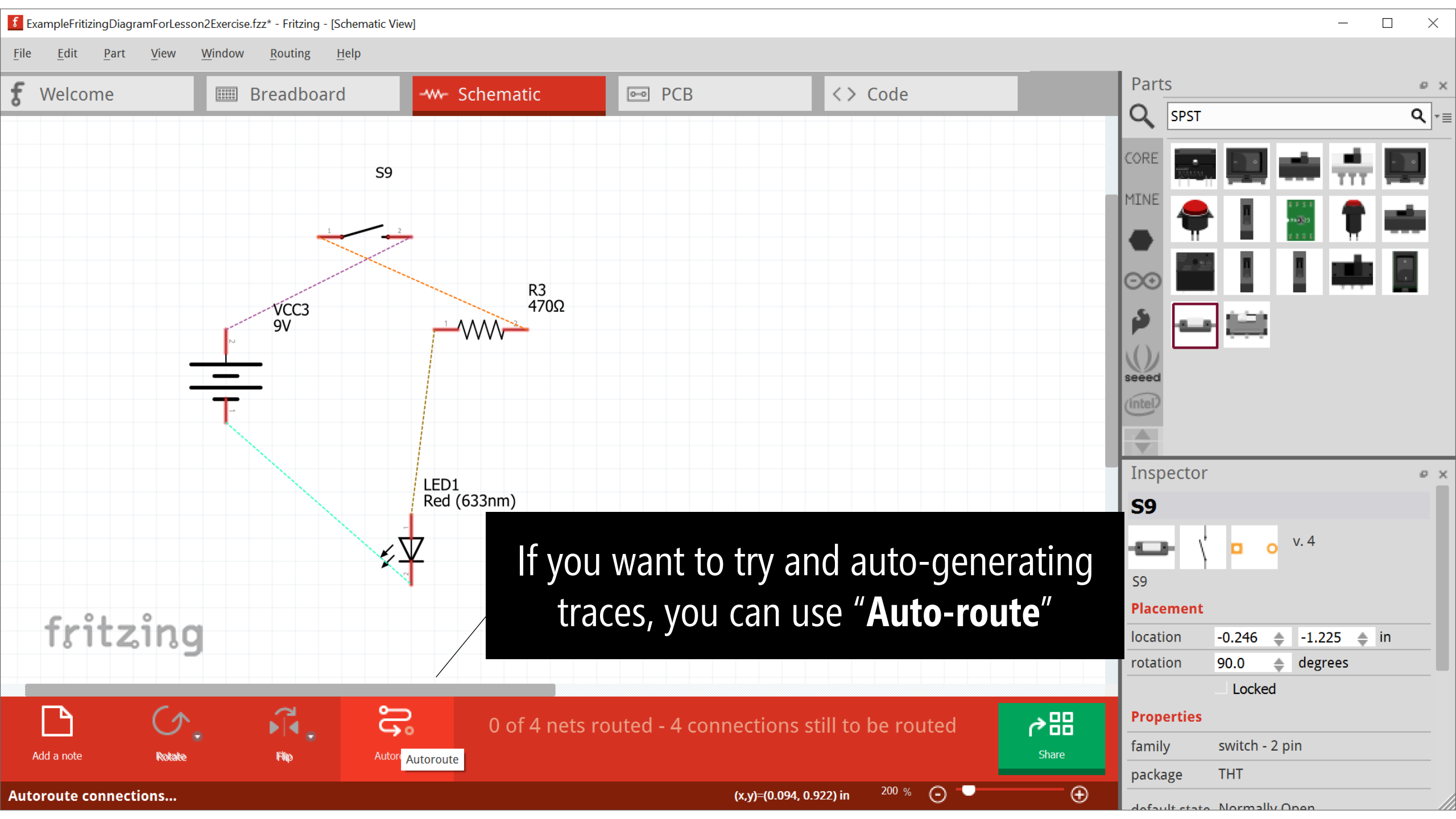


We did it!

Grid of component icons including various resistors, capacitors, LEDs, and switches. A red box highlights a specific component in the grid.

Inspector panel showing three white rectangular boxes for property editing.

fritzing



fritzing

If you want to try and auto-generating traces, you can use **"Auto-route"**



Add a note



Rotate



Flip



Auto-route

0 of 4 nets routed - 4 connections still to be routed



Share

Auto-route connections...

(x,y)=(0.094, 0.922) in

200 %

Parts



SPST



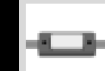
CORE

MINE



Inspector

S9



v. 4

S9

Placement

location -0.246 -1.225 in

rotation 90.0 degrees

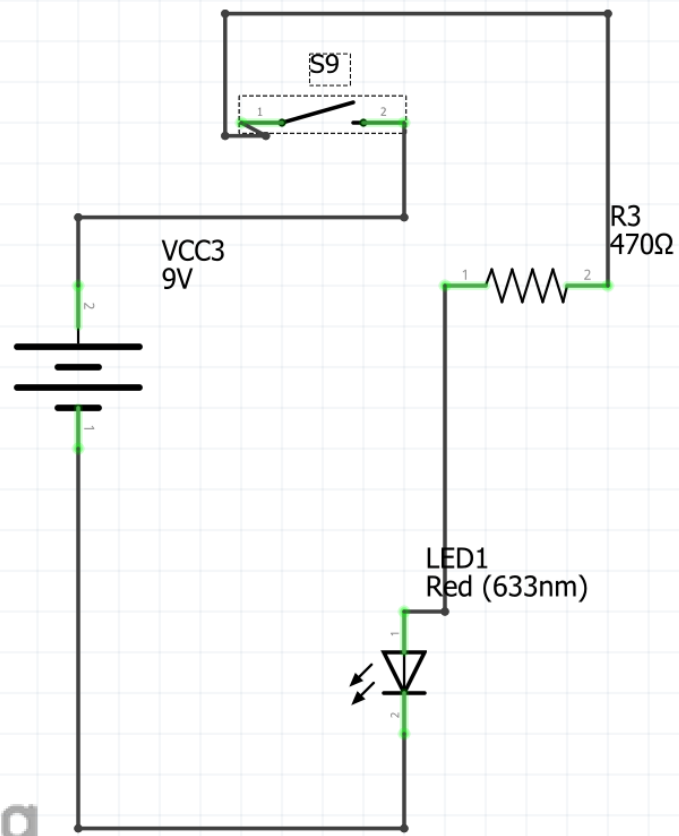
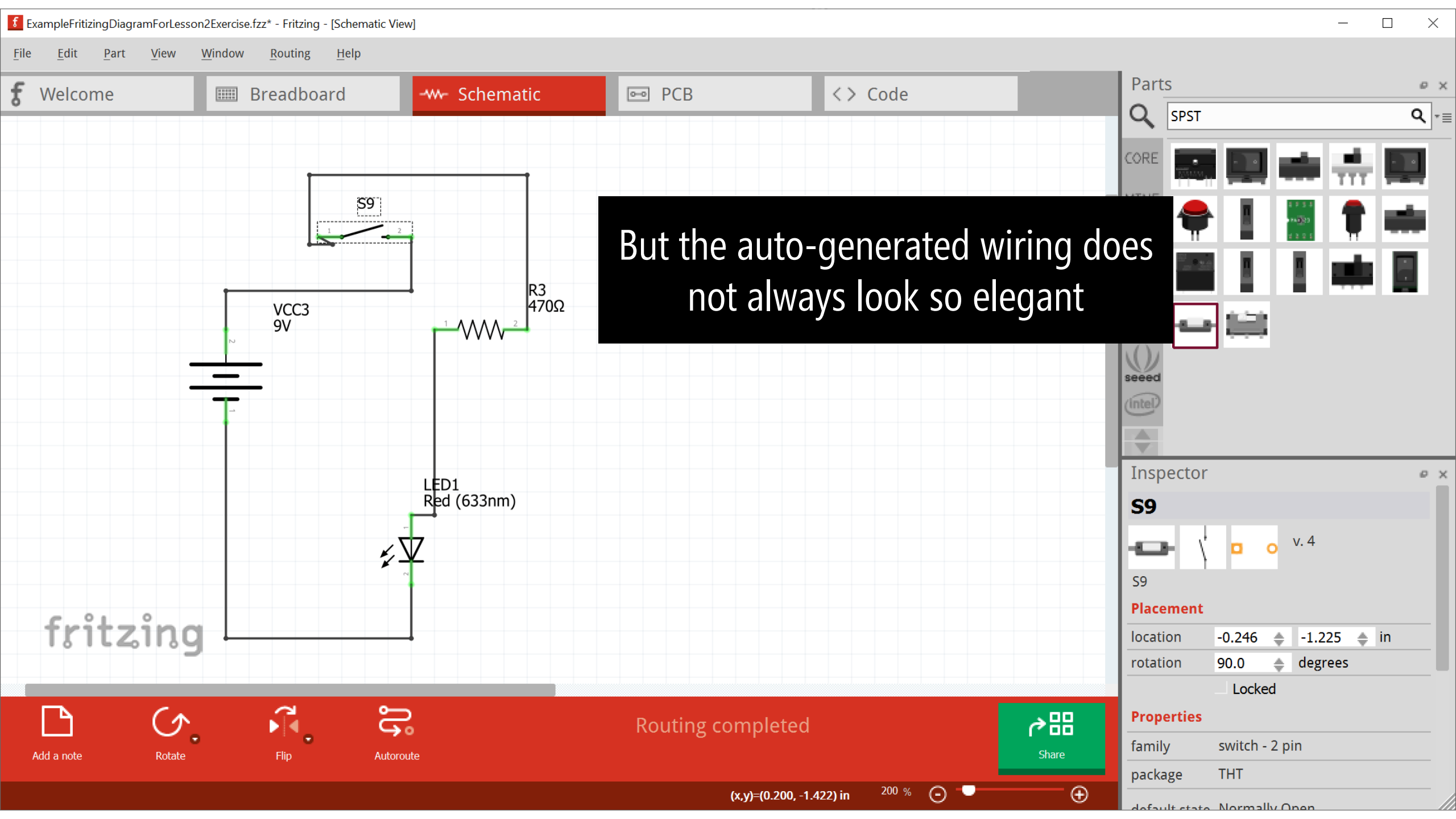
Locked

Properties

family switch - 2 pin

package THT

default state Normally Open



But the auto-generated wiring does not always look so elegant

Parts

SPST

CORE

seed intel

Inspector

S9

S9

Placement

location -0.246 -1.225 in

rotation 90.0 degrees

Locked

Properties

family switch - 2 pin

package THT

default state Normally Open