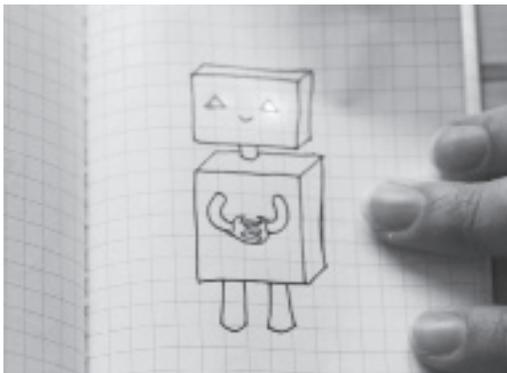
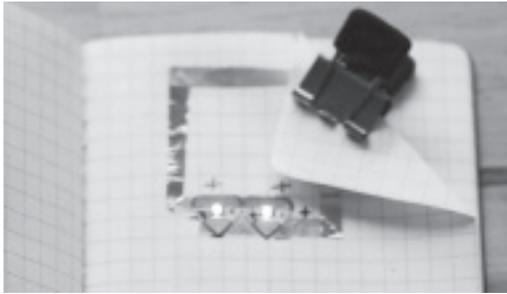


# PARALLEL CIRCUIT

Work in Parallel - Add Multiple LEDs.



## YOU WILL NEED

- 2 LED circuit stickers
- Copper tape
- 1-3V coin battery
- Scissors
- A small binder clip



## DIRECTIONS

1. Draw a picture in your notebook. Decide what you want to light up. Stuck? Check out the ideas below.
2. On the page underneath your drawing, mark where the lights should go. "X" marks the spot!
3. Place your battery in the corner of the page. Trace your battery twice as shown in the diagram. Label one circle - (negative) and the other + (positive).
4. Draw a line from the + circle connecting the top of your X's. Draw a second line from the - circle connecting the bottom of your X's. (Straight lines and wide angles are easiest, but go for curves if you feel like it!) Label the + and - lines.
5. Lay down copper tape along your line leaving a small gap no larger than 1/4" where the light should go. The copper tape should extend well into the battery circles.
6. Place the light so that it points to the - circle.
7. Add your battery. Make sure the + side is touching the + circle. Clip in place. The LEDs should light up.

## TROUBLESHOOTING TIPS

- Check your battery orientation. The side labeled + should be touching the + circle.
- Check your LED sticker orientation. The point should touch the line of tape that connects to the - circle. Also make sure both stickers are oriented in the same direction: ▽ ▽ or ▲ ▲
- Check your copper tape joins. Press down firmly on all corners.
- Check your LED sticker connection to the copper tape. Press down on both ends to ensure a strong connection.

Share your hacks! Tag pictures, tweets and blog entries with #HYNB2014 @sfnexmap

