# Dual Lightsabers

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# INTRODUCTION

These lightsaber cards use a clear straw and clear LED to give a fun laser beam effect! In this guide you'll find both a holiday PDF as well as generic version without any holiday flair or text.
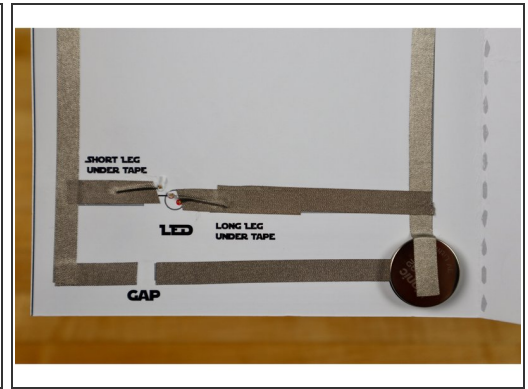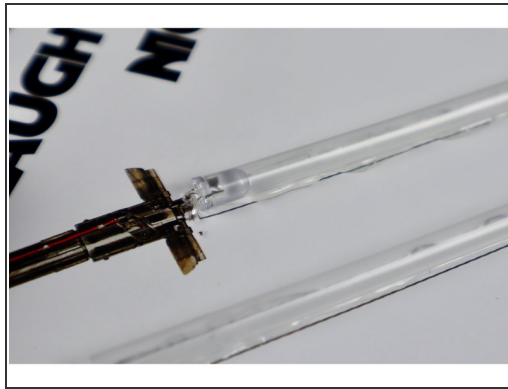
## TOOLS:

- Scissors (1)
- Hot Glue Gun (1)

## PARTS:

- Maker Tape (1)
- Straw (1)
- 5mm Clear LED (1)

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## Step 1 — Dealing with the Straws



- We bought these [clear straws off Amazon](). You can also use colored straws, but if you do that be sure to only use WHITE LEDs so they'll shine through the straw better.

- Most 5mm LEDs should fit into the straw just fine, though if you want the LED to go in all the way you'll need to cut a small slit in the end of the straw. (You don't need to do this, but it may be helpful if you're using colored straws.)

- We used a thin line of hot glue to hold down the straw. We recommend slightly rolling the straw once it's down to help spread out the glue. When using a clear straw the glue reflects the light and gives it a fun look.

- In general build this project in this order: Color or decorate your card, poke LED legs through the paper, add tape and battery, add the straw.

- ⚠ When using two LEDs you can run into problems. In general try and use combinations of Red, Green, and Yellow or use a combination of Blue and White otherwise you'll end up with one LED that isn't turning on. To get around this limitation throw a 100 ohm resistor onto your LEDs. If you're using two of the same color you'll also be ok.

- 📌 The Holiday PDF is at the end of this page.

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