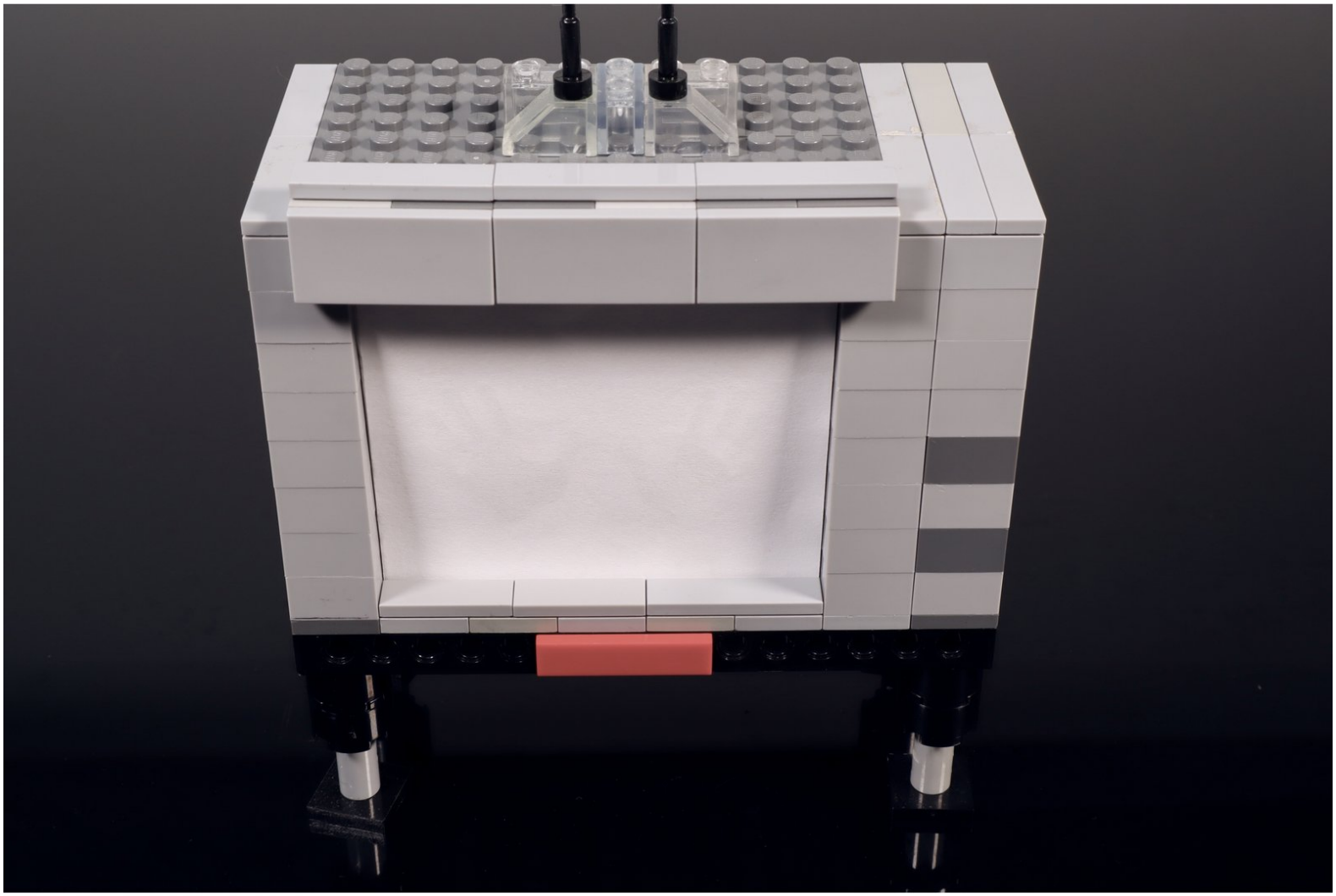
Hole Punch ShadowBox TV

LEGO, Crazy Circuits & backlit silhouettes; what's not to like? Use this guide to create a light-up LEGO build that you can customize again and again!

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INTRODUCTION

LEGO, Crazy Circuits & backlit silhouettes; what's not to like? Use this guide to create a light-up LEGO build that you can customize again and again!

TOOLS:

- Hole Punch (1)
- X-ACTO Knife (1)
- Scissors (1)
- Glue (1)
- Clear Tape (1)

PARTS:

- Misc LEGO Parts (1)

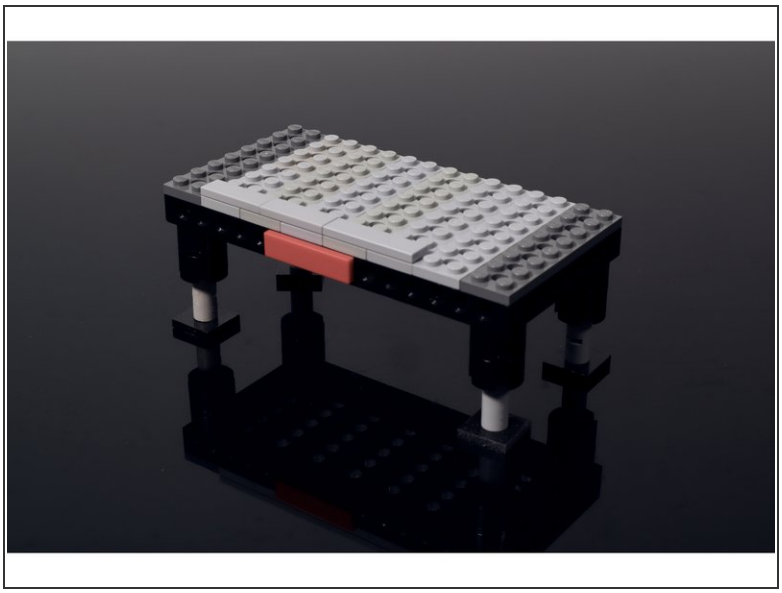
See Build Documents

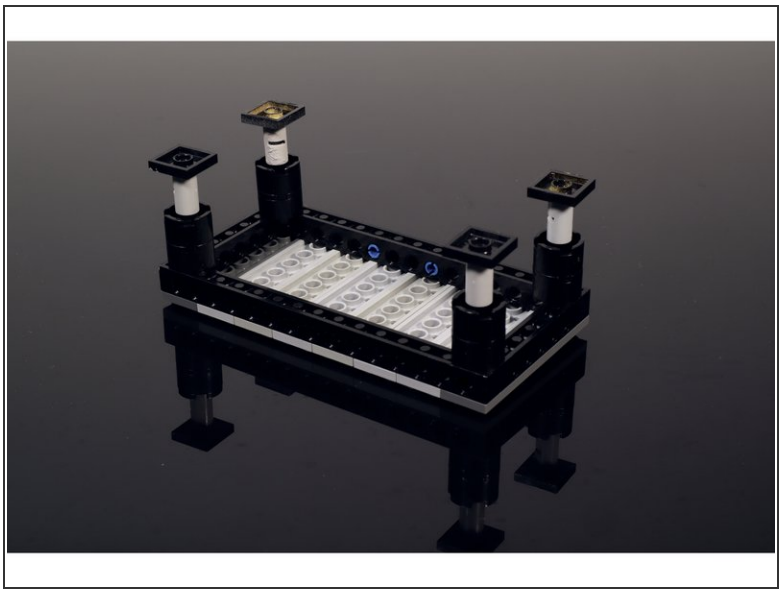
- Crazy Circuits Coin Cell Battery Holder (1)
- Crazy Circuits LED Chip (1)
- Crazy Circuits Slide Switch Chip (1)
- Maker Tape (1)

1/8" Wide

- Printable Template (1)
- Paper (1)
- Heavy Cardstock (1)

Step 1 — The Base

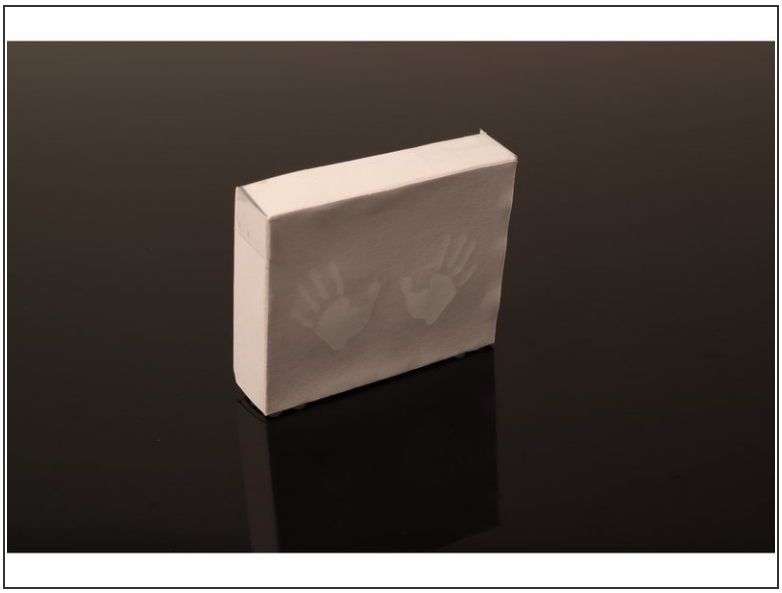




- **Follow** the downloadable build instructions **from the document above or improvise** your own base build as long as it maintains the dimensions shown **(16x8 LEGO studs)**.

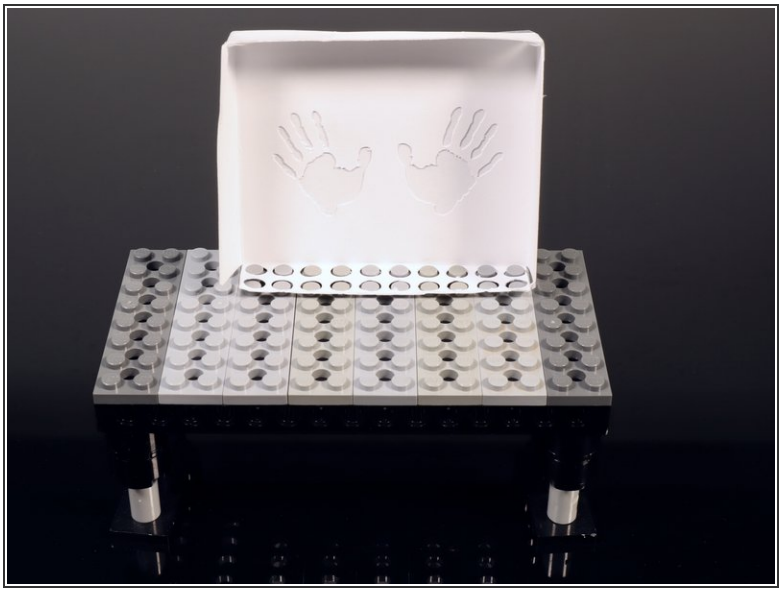
Step 2 — The Shadowbox





- **Print** out the LEGO hole punch template as well as the shadowbox template you want to use on heavy cardstock. **NOTE:** There are blank templates as well as ones with pre outlined silhouettes. **Choose which one you want!**
- **Cut out the shadowbox template** with a scissors and **the silhouette you chose with an Xacto knife**.
- **Use the hole punch template to help you mark a (2x10) row of holes** on the long panel below the silhouette. Then, **use a hole punch to punch the holes out.**
- **Fold the edges** to form the shape pictured and use transparent tape to **secure the corners**.
- **Cut a small rectangle out of copy paper** to match the silhouette panel and **glue it over the top of the outside of the shadowbox** (covering the cut out silhouette).

Step 3 — Securing the Shadowbox





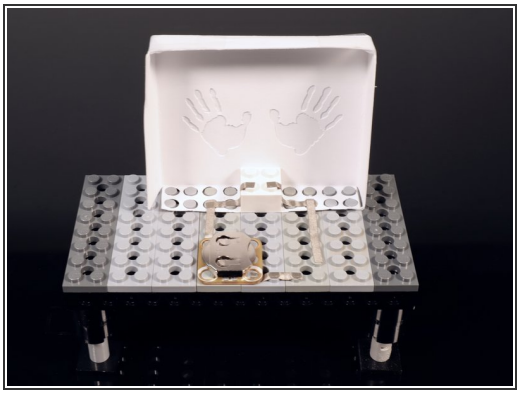
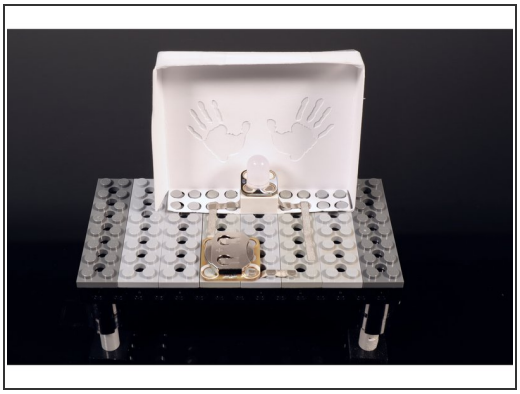
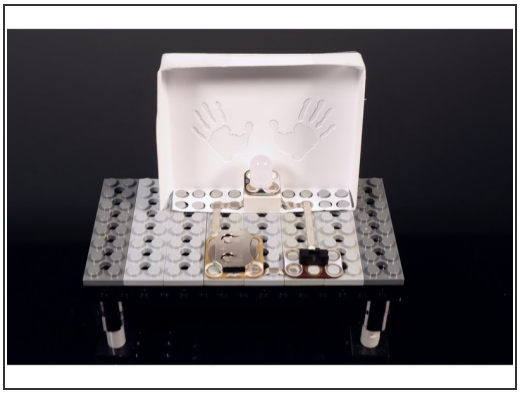
- **Place the completed shadowbox where shown on the instruction sheet.** Remember to leave a single row of LEGO studs in front of the shadowbox.
- **Use a single 2x2 LEGO brick to secure the shadowbox in place.**

Step 4 — Making Circuit Pathways



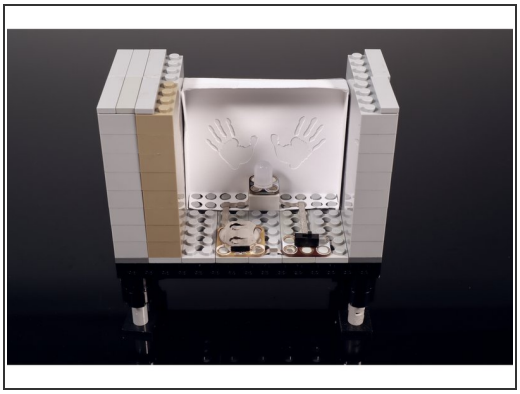
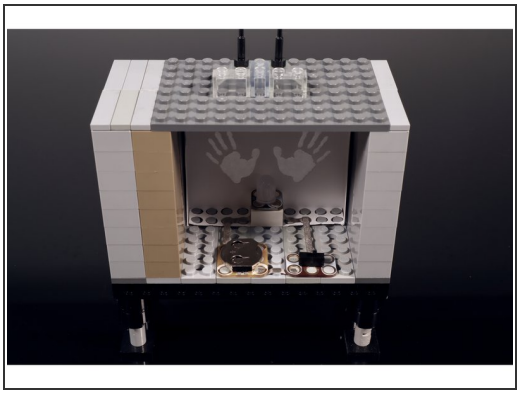
- **Create the conductive Maker Tape paths** shown both here and on the instruction sheet.

Step 5

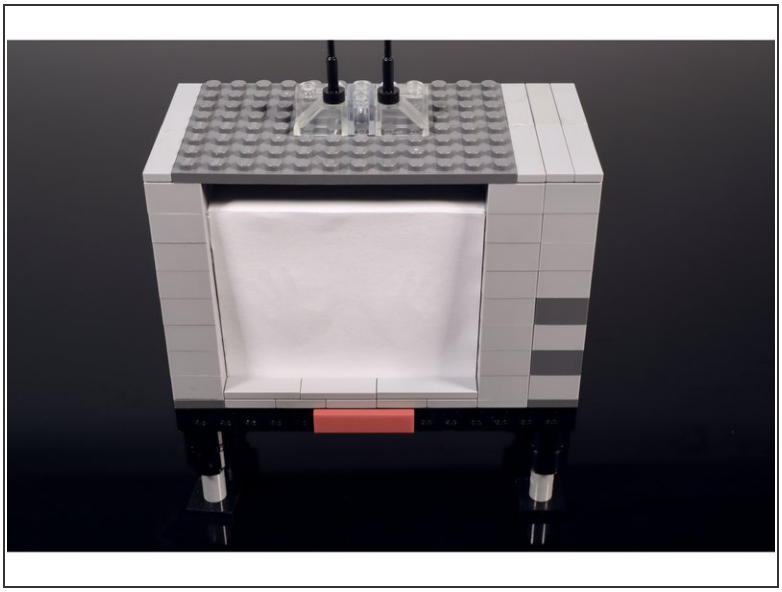
- **Place a single Crazy Circuits battery holder as shown. Take care to** orient the part so that the white holes are where they are pictured in the circuit diagram sheet.
- **Now, press a single Crazy Circuits color-cycling LED into place** atop the 2x2 LEGO brick. Again, take care to orient the part so that it matches the circuit diagram.
- **To finish the circuit, press a single Crazy Circuits slide switch into place where shown.** Again, take care to orient the part so that it matches the circuit diagram.

Step 6 — Finish The TV Build

- **Build the two side walls of the TV and add a top and an antenna.** You can always use the same parts that are shown but you can also improvise a different build if you don't have these same LEGOS.

Step 7





- **Add some tiles to seal the deal** (we used some 2x2 90 degree plates with flat tiles on them) OR **make the walls one layer shorter** so there is no gap between the top of the TV build and the top of the shadowbox.